Health and Disease in Byzantine Greece: A Dental Analysis of the Temple of Ismenion Apollo, Thebes by

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## Author's Declaration

I hereby declare that I am the sole author of this thesis. This is a true copy of the thesis, including any required final revisions, as accepted by my examiners.

I understand that my thesis may be made electronically available to the public.


#### Abstract

Through a dental analysis, this study aimed to develop an understanding of the demography and health of the population at the archaeological site of Ismenion Hill, Thebes, Greece, dating to the early years of the Byzantine period (416-537 AD). Population demography was examined by determining the number of individuals present and their ages-at-death. It was suggested that 210 people were buried at Ismenion Hill and $60 \%$ of the population were nonadults. Further, diet was evaluated through the prevalence of dental calculus and caries, which suggested the population relied more heavily on plant food than meat, and that they possibly practiced a mix subsistence custom of both hunter-gatherer and agriculturalism. Overall health was explored through the presence of linear enamel hypoplasia, which indicated a possible stress period during weaning. Additionally, this study aimed to investigate any signs of leprosy on the dental remains, as previous assessments have indicated multiple individuals suffered from the disease (Liston 2017). It was proposed that four individuals had dental traits characteristic of leprosy. Ultimately, this research demonstrated the wealth of information generated from a dental analysis and deepened our understanding of the lifeways of the population at Ismenion Hill.


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## LIST OF ABBREVIATIONS

| AD | Anno Domini |
| :--- | :--- |
| AMTL | Antemortem Tooth Loose |
| ASUDAS | Arizona State University Dental Anthropology System |
| CEJ | Cemento-enamel Junction |
| LATD | London Atlas of Tooth Development |
| LEH | Linear Enamel Hypoplasia |
| MLNI | Minimum Likely Number of Individuals |
| MNE | Minimum Number of Elements |
| MNI | Minimum Number of Individuals |
| N | Number |
| SRA | Short Root Anomaly |
| WHO | World Health Organization |

## CHAPTER 1: INTRODUCTION

This research project was a dental analysis of human remains from the archaeological site of Ismenion Hill, Thebes, Greece, dating to the early years of the Byzantine period (416-537 AD) (Bolding 2017, in personal communication with Liston 2023). The goal was to develop an understanding of the demography, diet and health of this sample population. Demographic analysis included estimating the number of individuals present, and determining age-at-death using tooth development and dental wear. Further, the prevalence of dental calculus and caries were used to assess the dental health and diet of the sample. Population health was explored through the prevalence of linear enamel hypoplasia (LEH), a marker of childhood physiological stress. A secondary goal of this study was to explore the presence of leprosy at the site through dental evidence. Previous examinations of the bones indicated that $11.4 \%$ of the sample bore signs of the disease (Liston 2017). Interestingly, other illnesses including brucellosis, childhood leukaemia and metastatic cancer were found co-occurring with leprosy at Ismenion Hill. This evidence led Liston (2017) to suggest that the area was once the location of a hospital (Liston 2017). And so, this project aimed to investigate whether signs of leprosy were visible on the dental remains. This thesis outlines the relevance of this project to various publics, and its theoretical grounding. It also provides information on the context of Ismenion Hill. For a brief review of Greek scholarship in bioarchaeology, see Appendix A. Chapter 2 reviews the composition of the dental collection and the methods used within this analysis. The results are presented in Chapter 3, and placed within the wider social and cultural landscape to understand site demography, diet and health in Chapter 4. As well, Chapter 4 discusses potential dental
evidence for leprosy within the population. Finally, Chapter 5 summarizes key findings and suggests future directions for the bioarchaeological study of Ismenion Hill.

### 1.1. Public Issues

Bioarchaeological research considers the public, defined as stakeholders, descendant communities, academic scholars and the general population, in many ways (Martin et al. 2013). Within recent years, the public has become increasingly concerned with the ethical practices of studying human remains (e.g. DeWitte 2015; Gnecco 2019; Guttman-Bond 2019). The integration of modern technological advancements into the field of bioarchaeology has allowed for research in microscopic, stable isotope, trace element and aDNA analyses. However, these analyses require the destruction of a piece of the human skeleton (Dolphin et al. 2016; Pálsdóttir et al. 2019). This raises ethical concerns for the treatment of deceased humans. Many cultures believe that tampering with ancestral remains and destruction of the human body will disturb the soul in the afterlife, causing a restless spirit and the traumatization of the living community (Bardill et al. 2018; Pfeiffer et al. 2014). As well, the bioarchaeological record is limited in that it is not possible to create exact replicas of samples from the past. Thus, the destruction of teeth eliminates a piece of history that cannot be replaced. Many members of academia and the general public have issues with the loss of a part of this finite resource (DeWitte 2015; Hutchings \& La Salle 2019; Walker 2000). Therefore, non-destructive dental analysis, like that conducted in this study, is an ideal alternative to destructive methods, as observational features of teeth can provide valuable information without damaging the collection (Armelagos \& Cohen 1984; Hillson 1996). Consequently, an observational analysis of dentition can satiate the public's desire for the preservation and care of human remains while benefiting the scientific community.

### 1.2. Theoretical Grounding

At its foundation, this study is rooted in a biocultural paradigm, defined as "the intertwined biological and cultural aspects of any given human phenomena [...] explicitly emphasizing the dynamic, dialectical interactions between humans and their larger physical, social, and cultural environments" (Zuckerman \& Martin 2016: 7). Bioculture examines the interplay of evolutionarily derived human biology and constructed environments, and the ramifications these interactions have on health (Zuckerman \& Martin 2016). It considers the ways in which humans and their environments, including social and physical landscapes, are coconstructed. Biocultural theory integrates theory and methodology from all fields within anthropology while embracing human complexity and avoiding simplistic, deterministic explanations (Hoke \& Schell 2020). Within a biocultural approach, human variation is considered a function of phenotypic plasticity and responsiveness to elements within the greater environments that construct and moderate one another (Zuckerman \& Martin 2016). Biocultural methodology amalgamates multiple variables, processes and mechanisms of dealing with the intersection of biological and cultural factors. Ultimately, the human experience cannot be interpreted without consideration of the diverse landscapes that modify, influence and shape the human phenomena. Therefore, this study employed a biocultural theory for the analysis of the dental remains at Ismenion Hill by acknowledging and examining the dentition against the backdrop of the social settings and considering the ways in which cultural practices and human biology mutually influence each other.

Furthermore, this study explores human health at the population and individual level. According to the World Health Organization (WHO), health is "a state of complete physical, mental, and social well-being, and not merely the absence of disease or infirmity" (Callahan

1973: 77; WHO 2023). While this definition has been used in anthropological and archaeological studies, the nature of bioarchaeology limits the ability to fully assess mental and social wellbeing as the bioarchaeological record only holds partial evidence of past lives. Interestingly, the Osteological Paradox, developed by Wood et al. (1992) discusses this shortcoming and bioarchaeology's failure to account for the heterogeneity of human frailty. Bioarchaeological studies can easily assign a blanket assessment of health across a population, without considering individual reactions to illness, susceptibility to diseases, and responses to stressors (DeWitte \& Stojanowski 2015; Wood et al. 1992). Moreover, scholars often consider stress markers as evidence of poor health, when they actually indicate the opposite. Stress markers usually take years to develop, and therefore, demonstrate the ability of an individual to survive stress events, suggesting good health. And so, the high prevalence of stress markers can be an indication of individual and population hardiness and survivorship (Ortner 1991; Wood et al. 1992). Consequently, interpretations of health among ancient populations must be carried out with caution, and must acknowledge the diversity of human frailty. As well, scholars should be wary to not make grand assumptions of health and mortality based on stress markers. Collectively, this study takes into consideration the above cautions in its assessment of dental health. The specific definition of health for this research is the absence, or low prevalence, of disease or features that negatively impact the functionality of the teeth.

### 1.3. Context of Ismenion Hill

Ismenion Hill is a small, elevated area tucked into the southeastern corner of Thebes, adjacent to the Electra Gates, with the River Ismenios flowing at its base (Figure 1) (Daly \& Larson 2017). The site was first used during the Mycenean Bronze Age, when chamber tombs
were built on the site. Later in the Geometric Period (900-700 BC) it was used as the location of the construction of the Temple of Apollo Ismenios (Warwick 2017). In Greek mythology, this was the site were Caanthus, the son of Oceanus and brother of the nymph Melia, shot and killed the god Apollo (Daly \& Rengel 2009). Prominent features of the temple included a Cedar wood statue and the statues of Athena and Hermes Pronaoi (Carucci 2010). The site remained a place of cultic and religious practice until Christianity began to spread through Greece in the early and middle years of the Byzantine period (Bruce 2004; Makrides 2009; Warwick 2017). In the $5^{\text {th }}$ century AD, when Christianity reached its peak, Ismenion Hill was turned into a cemetery and refuse area to discredit previous polytheistic beliefs and promote the new Christian customs (Aravantinos 2017).


Figure 1. Outline of Ismenion Hill (yellow outline), Thebes, Greece (Google Earth 2023).

Excavations of Ismenion Hill began in the early $20^{\text {th }}$ century, led by Greek archaeologist Antonios Keramopoullos. Twenty-eight burials were excavated by Keramopoullos, all of which contained human remains. Unfortunately, work at Ismenion Hill ceased in 1917 with the expansion of World War I (Symeonoglou 2014; Warwick 2017). The site remained untouched until Stephanie Larson and Kevin Daly at Bucknell University recommenced excavations in

2011 and finished in 2015. This first field season focused on clearing the dishevelment left behind from past excavations and establishing a digital grid system using non-invasive methods. In the 2012 excavation, the Parking Lot Grave (PLG) was cleared, identifying eight previously disturbed graves. The 2013 field season successfully determined the boundaries of the archaeological site and exhumed multiple burials and rock cuttings. In 2014, excavations extended into the temple area and the eastern hillside, unearthing multiple burials and bothroi (refuse pits). The last field season in 2015 cleared the hill in a series of $5 \times 5 \mathrm{~m}$ and $10 \times 10 \mathrm{~m}$ areas, and excavated the remaining bothroi, as well as a rectangular water feature (RWF) believed to be part of the original temple system. Collectively, the excavations led by Larson and Daly uncovered 20 new graves (Daly \& Larson 2017). While the excavations were completed in 2015, publications on the site have been limited. The few articles on Ismenion Hill focus on pottery and architecture with brief reviews of the graves (Daly \& Larson 2017). However, at the 2017 annual conference hosted by the American School of Classical Studies at Athens (ASCSA), Dr. Maria Liston, of the University of Waterloo, presented a preliminary assessment of the skeletal remains. The bone assessment indicated an age-at-death distribution atypical of a Byzantine cemetery with more adults (68.5\%) than non-adults (31.5\%) (Table 1). As well, there was a high prevalence of leprosy (11.4\%) with at least 21 individuals exhibiting skeletal symptoms of the disease. Other diseases, including brucellosis, metastatic cancer and childhood leukemia were found to co-occur with leprosy at Ismenion Hill. It is suggested that the high prevalence of disease and illness found at the site indicates that it was used as a hospital for the gathering of sick people (Liston 2017). Supporting this is the construction of the Church of St. Luke adjacent to Ismenion Hill. In biblical writings, St. Luke was a physician and was seen aiding the sick
(Marx 1980; Raynor 2015). As well, the River Ismenios was believed to have natural healing properties (Symeonoglou 1985).

| Age-at-death (years) | Number of Individuals | Percentage (\%) |
| :---: | :---: | :---: |
| Fetus/Infant | 26 | 14.1 |
| Child | 32 | 17.4 |
| Adult | 126 | 68.5 |
| TOTAL | $\mathbf{1 8 4}$ | 100 |

Table 1. Preliminary estimations of age-at-death distribution based on the bone analysis (Liston 2017; Liston 2023 personal communication).

Moreover, many of the exhumed skeletons at Ismenion Hill have had the upper portion of their body removed shortly after burial, leaving behind the lower body to be excavated many centuries later. Exhumation of this style became a common practice in Christian Greece, although its origin in uncertain (Liston 2017). Preliminary radiocarbon dating of the Byzantine section of the cemetery gave a time range of cal. 416-537 AD (Bolding 2021, in personal communication with Liston 2023). As well, initial DNA pathogen testing noted the presence of Salmonella typhi, the bacterium which causes Typhoid fever (Neumann 2021, in personal communication with Liston 2023). Prior to this research project, no analysis was completed on the dental remains in the collection. Therefore, this study aimed to fill this gap in knowledge by conducting a dental analysis of the surviving dentition from Ismenion Hill. The information generated by this research adds to the understanding of the nature of the site and the lifeways of the population.

## CHAPTER 2: MATERIALS AND METHODS

### 2.1. Materials

This study analyzed human dental remains from 28 burials uncovered by Keramopoullos in the early 1900s (Voutsaki 2003), and 20 burials excavated by Larson and Daly during their 2011-2015 field seasons. The sample was comprised of both loose teeth and in situ teeth in mandibles and maxillae. It should be noted that Grave X from the Larson and Daly excavations of 2011-2015 was initially labelled as "Near Grave 19/10" but was given its own Grave designation in this project as the originating grave could not be conclusively determined. As well, there was one grave from the Larson and Daly field seasons that was not given a title, so for clarity it was labelled in this study as Grave Y.

### 2.2. Methods

Within this study, non-adults were defined as individuals whose dentition is not fully developed as they possess teeth that are not completely formed. Following the London Atlas of Tooth Development (AlQahtani et al. 2009), the final teeth to develop are the third maxillary and mandibular molars, which are fully complete at 20.5 years. Therefore, non-adults are considered individuals under the age of 20.5 years of age. Adults are individuals with fully developed teeth and are, thus, older than 20.5 years. This coincides with historical and literary evidence that recognizes non-adults as those aged from birth to approximately 20 years. Byzantine society divided childhood into three stages. Infantia (infancy) was assigned to children younger than seven years of age (Nathan 2020; Vuolanto 2020). Pueitia (juvenile) occurred until the children reached puberty around the age of 12 or 14 years, for girls and boys, respectively (Nathan 2020; Tritsaroli \& Valentin 2008). Following this, adulescentes (adolescence) was the time when
individuals were considered old enough to marry, have children, or work professionally, however they were not socially considered adults until 18 years of age, and legally attributed adult status at 25 years (Nathan 2020; Tritsaroli \& Valentin 2008). Therefore, the biological markers of adulthood indicated by complete tooth formation at the age of 20.5 years, roughly aligns with the cultural and social classifications and was, thus, appropriate to use within this project.

### 2.2.1. Inventory and Identification

Teeth from Ismenion Hill appeared in three forms: 1) individual loose teeth that were associated with a grave but not a specific mandible, maxilla or person (Figure 2); 2) small groups of teeth that remained intact in pieces of bone associated with a grave but not a specific individual (Figure 3); and 3) in situ teeth in mandibles or maxillae, or loose teeth that fit into a mandible or maxilla, that were associated with one specific individual, as was determined during excavations (Figure 4). Loose teeth and small groups of intact teeth that did not belong to a known individual were identified by Dr. Alexis Dolphin (University of Waterloo) in accordance with Hillson (1996) standards. Four characteristics of each tooth were documented: 1) permanent or deciduous; 2) tooth type (incisor one or two, canine, premolar one or two, molar one, two or three); 3) mandibular or maxillary, and 4) left or right sided. Identified teeth were recorded by grave in a Microsoft Excel spreadsheet by Aparajita Bhattacharya, BA (University of Waterloo). Intact teeth and loose teeth associated with specific individuals were identified by Jeffery Coffin, BA, MA (University of Waterloo) and myself following Hillson (1996) and were recorded in a 'Dental Inventory Sheet' (Figure 5) following Buikstra and Ubelaker (1994). These were later transferred into the Excel spreadsheet and organized by grave.


Figure 2. Example of a loose tooth, associated with a grave but not an individual.


Figure 3. Example of a group of teeth, associated with a grave but not an individual.


Figure 4. Example of in situ teeth and a loose tooth that was associated with a specific individual from Grave 4 as originally noted during excavations.


Figure 5. Example of a completed Dental Inventory Sheet used to record intact dentition.

### 2.2.2. Number of Individuals

Determining the minimum number of individuals (MNI) present at Ismenion Hill was an important step in understanding the demography of the population at this site. Originally established by Chase and Hagaman (1987), MNI was grounded in probability theory for an estimation of abundance for archaeological collections (Marshall \& Pilgram 1993; Plug \& Plug 1990). MNI is based on the most repeated tooth present, however, it often greatly underrepresents the actual number of individuals in a collection (Adams \& Konigsberg 2004). An alternative to MNI that provides a better representation of the number of individuals present, is the Minimum Number of Elements (MNE) (Robb 2016). MNE counts repeated specific regions of an element. However, this method is rarely used on dental collections as not all elements of teeth are unique enough to be distinguishable by type. As well, the small size of teeth makes this method difficult to use as does uneven wear patterns. Thus, for the dental collection from Ismenion Hill, employing MNE would be inappropriate and yield inaccurate results.

A better means of determining the number of people present at Ismenion Hill is the Most Likely Number of Individuals (MLNI). MLNI, outlined by Adams and Konigsberg (2004), is based on pair matching where two or more elements belong to the same individual. To determine the MLNI for the Ismenion Hill collection, the recorded teeth were first divided into their respective graves, as it was assumed that an individual's remains were not spread between multiple burials. To establish matches, undeveloped teeth were assessed for age (AlQahtani et al. 2010), while complete teeth were evaluated for wear (Scott 1979; Smith 1984). Teeth from the same grave, with identical ages or wear stages were analyzed for possible matches. Matches were based on similar physical appearances, including size and shape, taphonomic effects (e.g. tooth colour, degree of preservation), dental calculus and pathologies, including linear enamel
hypoplasia (LEH). Once all possible matches were identified, the pairs were examined alongside each other to determine if they were from the same individual based on calculus, pathologies and appearance. After all potential pairings were distinguished, the remainder of the teeth were assessed for the most repeated tooth type. For each grave, the matches and counts of the repeated tooth type were added to the number of people with in situ dentition, to collectively total and determine the MLNI, providing a more accurate representation of the number of individuals present. However, this method does have its limitations. Primarily, wear scores are not always identical across the mouth, and so, only comparing teeth based on matching wear scores will potentially, yet unintentionally, miss possible matches. Another limitation of this method, is that it does not account for individuals that have both permanent and deciduous dentition as seen between the ages 4.5 and 12.5 years old.

Grave 38 can be used as an example of how MLNI was calculated for Ismenion Hill (Appendix B, Table 1). This grave had 90 loose teeth and two teeth that were intact in a small piece of maxilla, that were not associated with any specific individuals (Figure 6). These teeth were identified and inventoried in the Excel sheet. Teeth were then assessed for age-at-death and wear where possible, and evaluated for pairs based on matching ages or scores. For instance, an $\mathrm{RI}^{1}$ and $\mathrm{LI}^{1}$ both had a wear score of four, and when compared, had the same colour, degree of preservation, and LEH bands at relatively the same measurements ( 3.29 mm and 5.14 mm , and 3.35 mm and 5.56 mm , for $\mathrm{RI}^{1}$ and $\mathrm{LI}^{1}$, respectively) (Figure 7). Therefore, these two teeth were identified as a pair, and thus from one individual. This was repeated for three other pairs. The four sets of pairs within Grave 38 were too dissimilar to indicate any came from the same individual. Thus, four individuals were present based on pair matching, plus another person represented from the two unassociated teeth in the small maxilla piece. The remainder of the
loose teeth were assessed for the most repeated tooth type. This was $\mathrm{RI}^{2}$, which was seen four times, thus the number of individuals among the remaining loose teeth was four. Therefore, the loose, unassociated teeth indicate eight individuals present. Additionally, there were nine discrete individuals that were identified during the excavations of Grave 38 (Figure 8). These were identified and inventoried on the Dental Inventory Sheets and later added to the Excel document. Collectively, the eight individuals determined from the loose, unassociated teeth, plus the nine individuals with intact dentition, indicate an MLNI of 17 people for Grave 38.


Figure 6. Small maxilla fragment from Grave 38, indicated one individual.


Figure 7. (a) $\mathrm{RI}^{1}$ and (b) $\mathrm{LI}^{1}$ from Grave 38, identified as a matching pair.


Figure 8. Example of in situ dentition associated with a specific individual (Skeleton F) from Grave 38.

### 2.2.3. Age-at-Death

### 2.2.3.i. Undeveloped Teeth

Teeth are ideal for determining age-at-death as their development and eruption occurs at close-to-universal and known rates (Demirjian 1986; Garn et al. 1960; Smith 1991). Many scholars have developed different methods for age assessments. Moorrees et al. (1963) developed an ageing system based on dividing the tooth into fractions and assigning each fraction an age range. However, this method lumps all single-rooted teeth, and all double-rooted teeth together, ignoring individual tooth growth times. As well, this method requires the biological sex of the individual to be known, thus ruling out its use for this study. Ubelaker (1989) established a method of assessing age by comparing individual teeth to the development stages of the other teeth in the mouth, while Schour and Massler's (1941) developed a method using the calcification patterns of teeth to determine age. These methods, however, are not highly accurate when applied to populations outside of archaic North American as they were built solely with Native American samples (AlQahtani et al. 2014). Other methods of ageing dentition use dental measurements. For example, the method established by Lamendin et al. (1992) relies on the diameter of the root apex, while Bang and Ramm (1970) employ a series of regression equations using crown height and width measurements. The circumstances of this project's data collection period did not allow for the recording of dental measurements due to time limitations. Further, these techniques, and those similar to it, are dependent on equations that are different for each method, and are thus difficult to replicate. As well, aging methods have been developed based on destructive analysis. An example of this is the measurement of the layers of cementum depositions from tooth thin sections, as established by Gustafson (1950), and Zander and

Hurzeler (1958). However, the parameters of this study did not allow for destructive methods to be conducted.

The most ideal method of ageing developing teeth for Ismenion Hill was the London Atlas of Tooth Development (LATD), created by AlQahtani et al. (2009) (Figure 9). AlQahtani et al. modified and updated the dental stages established by Moorrees et al. (1963) by differentiating the development of the dentine edges of tooth roots through the apex width and the size of the periodontal ligament space among the later age stages. AlQahtani et al. also modified Bengston's (1935) development stages to define tooth eruption times more clearly in relation to the bone level. This method, originally developed using Medieval English samples, has been tested on a wide range of biogeographical regions including Saudi Arabia, Spain, Italy (AlQahtani et al. 2017), South Africa (Esan \& Schepartz 2018), Portugal (Palović et al. 2017) and China (Zhou et al. 2023), making the LATD one of the most universal ageing methods for dentition. The LATD has also be tested against other ageing methods, including those developed by Ubelaker (1989), and Schour and Massler (1941), and has remained the most accurate and replicable (AlQahtani et al. 2014). Further, the user-friendly interface allows for quick yet precise evaluations for individual teeth and groups of teeth. Therefore, the LATD method was the best choice for age assessment at Ismenion Hill.


Figure 9. The London Atlas of Tooth Development by AlQahtani et al. (2009), used to determine age-at-death of developing teeth.

### 2.2.3.ii. Developed Teeth

Completely developed teeth were assessed for age-at-death based on wear scores. The understanding is that over time, wear will increase and can be associated with specific ages. However, any method that is based on wear patterns to determine age is highly populationspecific. For example, Helm and Prydsø (1979) used wear for age estimations based on mandibular molar seriation of Medieval Danes; Prince et al. (2008) employ Bayesian analysis for dental wear aging in modern Balkan populations; Dreier (1994) used regression equations for assessing age of protohistoric Arikara of the North American Plains. Wear rates are greatly dependent on environmental and cultural factors which is distinct for each population. Therefore, these methods can only be applied to populations that are very similar to the ones they were developed from. Furthermore, these systems of determining age from dental wear use different
methods of analyses (molar seriation, Bayesian statistics, regression equations) which are rarely transferable or comparable between populations. As it stands, there are only a few studies of ancient Thebes that give a brief nod to dental wear (e.g. Nerlick \& Zink 2003; Wade et al. 2012), but none that provide an in-depth analysis of wear for the use of age estimation. Therefore, wear of the dentition of Ismenion Hill can only be used to comment on general age (young, middle, older adult) (Figure 10).


Figure 10. Example of (a) lower wear score of 1 indicating a younger adult, and (b) higher wear score of 6 indicating an older adult, both from the Parking Lot Grave.

### 2.2.4. Dental Wear

Dental wear was recorded for complete permanent teeth to help establish the MLNI and a general overview of adult ages. Dental wear of the incisors, canines, and premolars were assessed and recorded in accordance with Smith (1984), while molar scores followed Scott (1979). Smith's method was ideal to use as it has been tested against multiple populations from different geographical and temporal periods with high accuracy. As well, the method is userfriendly as it provides written and illustrated descriptions. Thus, incisors, canines and premolars were scored and recorded following Smith (1979) along the eight-point scale based on the
amount of dentine exposed and enamel worn (Figure 11). Molars, however, were assessed using Scott's (1979) method as Smith's system poorly discriminates the lower wear stages of molars. Unlike Smith, Scott takes into consideration the large, variable surface area of molars. Thus, following Scott, the occlusal surfaces of molars were scored by four quadrants on a scale of one to ten (Figure 12). The quadrants were then added to give a sum score of the tooth ranging from 0 to 40 .
Unwom to polished or smalt
facets (no dentin exposure)

Figure 11. Dental wear stages for incisors, canines and premolars following Smith (1984, reprinted in Buikstra and Ubelaker 1994: 52)

|  | Attrition scoring technique |
| :---: | :---: | :---: |
| Score | Description |

Figure 12. Dental wear stages for molars established by Scott (1979, reprinted in Buikstra and Ubelaker 1994: 53).

### 2.2.5. Dental Metrics and Non-Metrics

Dental metrics and non-metrics can provide insight into group genetics (Lukacs \& Pal
2013; Prowse \& Lovell 1995) and population differences (Molto 1985; Parras 2004; Scott \&
Turner 1988). Mayhall (1992), Moorrees (1957), Rogers (1984), and Buikstra and Ubelaker
(1994) suggest tooth measurements be taken mesiodistally, buccolingually and labiolingually for crown width, and from the occlusal surface to the cemento-enamel-junction (CEJ) for crown height. However, these measurements were not recorded during the dental collection period of this study due to time limitations. Nevertheless, dental non-metric traits, a series of qualitative
features often associated with specific geographical populations, were recorded as present or absent based on the Arizona State University Dental Anthropology System (ASUDAS), developed by Turner et al. (1991).

### 2.2.6. Dental Calculus

Dental calculus is a hard deposit of calcified plaque mainly made of calcium phosphate mineral salts. Calculus is highly useful for diet reconstructions as it traps plant phytoliths and food remains (Buikstra \& Ubelaker 1994; Power et al. 2018; Radini et al. 2017). The deposition and distribution of calculus is highly variable and individually dependent (Aghanashini et al. 2016; Lieverse 1999; MacKenzie et al. 2023). There are multiple methods of recording calculus based on the amount and location of the plaque on the tooth. Dobney and Brothwell (1987) developed a method that scores calculus on a five-grade system using radiographs. Brothwell (1981) recorded calculus macroscopically on a three-point scale of small, moderate and large amounts of calculus, to which Buikstra and Ubelaker (1994) modified, extending the grading system to include absent and unobservable. Unfortunately, both methods are time-consuming and the tight constraints on the data collection period of the project did not allow for dental calculus to be recorded in-depth. Therefore, calculus was simply recorded as present or absent for loose and in situ teeth.

### 2.2.7. Dental Pathologies

### 2.2.7.i. Dental Caries

Dental caries are openings or holes in teeth that developed from bacterial infection and tooth decay. They are the most common dental pathology and can be informative of diet as there
is a high correlation between increased caries frequency and the intake of food rich in sugar and carbohydrates (Powell 1985; Turner 1979). Particularly, the prevalence of dental caries can be used to determine subsistence practices as the rate of caries increases with a heavier reliance on agricultural food sources over hunted/gathered resources, as most harvested crops contain high levels of sugar (Armelagos \& Cohen 1984; Moorrees 1957; Rose et al. 1991). For this study, caries were recorded as present or absent for loose and in situ teeth.

### 2.2.7.ii. Linear Enamel Hypoplasia

Linear enamel hypoplasia (LEH) is a deficiency in tooth enamel thickness caused by systemic metabolic stress, localized trauma or hereditary anomalies (Ogden 2007). These appear on teeth as linear indents on the enamel that can be recorded and measured. LEH can be analyzed microscopically, as established by Hassett (2011), however, this method is time-consuming and thus it did not fit with the parameters of the project. Therefore, LEH lines were measured macroscopically in accordance with Buikstra and Ubelaker (1994). Hypoplasia lines were measured from the midpoint of the labial/buccal cemento-enamel junction (CEJ) to the midpoint of the LEH band. This measurement method was employed because root length is highly variable and can be affected by multiple factors including nutrition, trauma and stress (Ogden 2007). As well, the occlusal surface of a tooth is often uneven, fractured or broken making it difficult to find a universal point to measure from. And so, the CEJ is the ideal point of measurement. Using digital calipers to ensure highest accuracy, measurements were taken (in millimeters) for each LEH band on a single tooth and recorded in the Excel sheet. The LEH measurements were then converted to age-at-deposition estimations using equations established by Goodman and Rose (1990) (Figure 13). An individual, from Grave 38, can be used as an example of how Goodman and Rose's calculations were conducted. This individual had two teeth with two LEH lines
$\left(\mathrm{RI}^{1}, \mathrm{LI}^{1}\right)$. The height of one LEH band for the $\mathrm{RI}^{1}$ was measured at 3.29 mm . The equation for a maxillary incisor was: $-(.454 \times \mathrm{Ht})+4.5$. Therefore, the equation for the age of the deposition of this LEH was $(.454 \times 3.29)+4.5=3.0$, indicating this individual was three years of age when the line developed. The other line on the $\mathrm{RI}^{1}$ was 5.14 mm ; the equation was $-(.454 \times 5.14)+4.5=2.2$, indicating an age of 2.2 years at LEH deposition. The LI ${ }^{1}$ LEH measurements were very similar to the $\mathrm{RI}^{1}$ with 3.35 mm and 5.56 mm . The equations for this tooth were $-(.454 \times 3.35)+4.5=2.9$ and $-(.454 \times 5.56)+4.5=2.0$, indicating the LEH bands were developed at 2.9 and 2.0 years of age. Therefore, it is suggested that this individual underwent a period of stress at the ages around two and three years. This process was repeated for each tooth with observable LEH.


Figure 13. Equations for estimation of age from LEH measurements established by Goodman and Rose (1990: 98).

## CHAPTER 3: RESULTS

### 3.1. Inventory and Identification

From the Ismenion Hill collection, 1,871 teeth were identified; 1160 (62.0\%) were unassociated loose teeth, and 711 ( $38.0 \%$ ) were in situ teeth from specific individuals (Table 2). See Appendix C, Table 1 and 2 for a complete inventory. The total number of permanent teeth ( $\mathrm{N}=1,718 ; 91.8 \% \%$ ) included 394 (22.9\%) incisors, 241 (14.0\%) canines, 439 (25.6\%) premolars, $644(37.5 \%)$ molars. The total number of deciduous teeth $(\mathrm{N}=153 ; 8.2 \%)$ included 31 (20.3\%) incisors, 21 (13.7\%) canines and 101 (66.0\%) molars (Table 3).

| Grave | Loose Teeth | In situ Teeth | TOTAL | Percent of Total (\%) |
| :---: | :---: | :---: | :---: | :---: |
| 4 | 51 | 37 | 88 | 4.7 |
| 5 | 134 | 0 | 134 | 7.2 |
| 9 | 163 | 0 | 163 | 8.7 |
| 10 | 1 | 0 | 1 | 0.1 |
| 12 | 52 | 49 | 101 | 5.4 |
| 18 | 1 | 0 | 1 | 0.1 |
| 19 | 2 | 163 | 165 | 8.8 |
| 20 | 24 | 153 | 177 | 9.5 |
| 25 | 43 | 28 | 71 | 3.8 |
| 26 | 9 | 67 | 78 | 4.2 |
| 27 | 109 | 26 | 135 | 7.2 |
| 34 | 0 | 2 | 2 | 0.1 |
| 38 | 91 | 60 | 151 | 8.1 |
| 40 | 16 | 20 | 36 | 1.9 |
| 41 | 35 | 8 | 43 | 2.3 |
| 42 | 0 | 4 | 4 | 0.2 |
| 43 | 0 | 16 | 16 | 0.9 |
| 45 | 102 | 0 | 102 | 5.5 |
| 46 | 1 | 16 | 17 | 0.9 |
| X | 1 | 0 | 1 | 0.1 |
| Y | 55 | 0 | 55 | 2.9 |
| PLG | 268 | 38 | 306 | 16.4 |
| RWF | 0 | 24 | 24 | 1.3 |
| TOTAL | 1160 | 711 | 1871 | 100 |

Table 2. Division of unassociated loose teeth and associated in-situ teeth.

| Grave | Tooth Type |  |  |  |  |  | TOTAL |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{P M}$ | $\mathbf{M}$ | $\mathbf{i}$ | $\mathbf{c}$ | $\mathbf{m}$ |  |
| 4 | 13 | 14 | 27 | 32 | 0 | 0 | 2 | $\mathbf{8 8}$ |
| 5 | 30 | 10 | 30 | 44 | 0 | 4 | 16 | $\mathbf{1 3 4}$ |
| 9 | 27 | 26 | 32 | 63 | 0 | 1 | 14 | $\mathbf{1 6 3}$ |
| 10 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | $\mathbf{1}$ |
| 12 | 23 | 13 | 27 | 32 | 2 | 2 | 2 | $\mathbf{1 0 1}$ |
| 18 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | $\mathbf{1}$ |
| 19 | 37 | 21 | 37 | 60 | 3 | 2 | 5 | $\mathbf{1 6 5}$ |
| 20 | 38 | 18 | 37 | 55 | 10 | 6 | 13 | $\mathbf{1 7 7}$ |
| 25 | 13 | 6 | 16 | 21 | 4 | 1 | 10 | $\mathbf{7 1}$ |
| 26 | 17 | 10 | 18 | 31 | 0 | 0 | 2 | $\mathbf{7 8}$ |
| 27 | 23 | 17 | 23 | 59 | 2 | 2 | 9 | $\mathbf{1 3 5}$ |
| 34 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | $\mathbf{2}$ |
| 38 | 35 | 18 | 41 | 55 | 1 | 0 | 1 | $\mathbf{1 5 1}$ |
| 40 | 6 | 6 | 12 | 12 | 0 | 0 | 0 | $\mathbf{3 6}$ |
| 41 | 13 | 7 | 10 | 11 | 0 | 1 | 1 | $\mathbf{4 3}$ |
| 42 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | $\mathbf{4}$ |
| 43 | 4 | 2 | 4 | 6 | 0 | 0 | 0 | $\mathbf{1 6}$ |
| 45 | 13 | 12 | 21 | 41 | 4 | 0 | 11 | $\mathbf{1 0 2}$ |
| 46 | 4 | 2 | 4 | 7 | 0 | 0 | 0 | $\mathbf{1 7}$ |
| X | 0 | 0 | 0 | 1 | 0 | 0 | 0 | $\mathbf{1}$ |
| Y | 21 | 11 | 10 | 12 | 0 | 0 | 1 | $\mathbf{5 5}$ |
| PLG | 71 | 44 | 77 | 93 | 5 | 2 | 14 | $\mathbf{3 0 6}$ |
| RWF | 6 | 4 | 8 | 6 | 0 | 0 | 0 | $\mathbf{2 4}$ |
| TOTAL | $\mathbf{3 9 4}$ | $\mathbf{2 4 1}$ | $\mathbf{4 3 9}$ | $\mathbf{6 4 4}$ | $\mathbf{3 1}$ | $\mathbf{2 1}$ | $\mathbf{1 0 1}$ | $\mathbf{1 8 7 1}$ |
| \% | 21.1 | 12.9 | 23.5 | 34.3 | 1.7 | 1.1 | 5.4 | 100 |

Table 3. Division of tooth type by grave. I=permanent incisor; $\mathrm{C}=$ permanent canine; $\mathrm{PM}=$ permanent premolar; $\mathrm{M}=$ permanent molar; $\mathrm{i}=$ deciduous incisor; $\mathrm{c}=$ deciduous canine; $\mathrm{m}=$ deciduous molar.

### 3.2. Number of Individuals

The minimum likely number of individuals (MLNI) of the Ismenion Hill population is 210. There were 157 individuals that were identified from loose teeth that were not associated with specific individuals, and 53 individuals who were identified as specific individuals as determined during excavations (Table 4). It was ensured that loose teeth that were associated
with specific individuals were not mixed with other loose teeth by keeping them separate and stored in labelled bags with the individual they belong to. However, it should be noted that loose teeth not originally marked as part of an individual could belong to an identified person but that context was lost in the burial environment, during excavation or even in storage. The Parking Lot Grave (PLG) had the highest MLNI with 35 (16.7\%) individuals, while Graves 10, 18, and X only had one individual present based on the dentition.

| Grave | Matched <br> Pairs | Repeated <br> Loose Teeth | Individuals <br> with in situ <br> Teeth | TOTAL | Percent (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 5 | 3 | 3 | $\mathbf{1 1}$ | 5.2 |
| 5 | 12 | 5 | 0 | $\mathbf{1 7}$ | 8.1 |
| 9 | 10 | 9 | 0 | $\mathbf{1 9}$ | 9.0 |
| 10 | 0 | 1 | 0 | $\mathbf{1}$ | 0.5 |
| 12 | 2 | 4 | 4 | $\mathbf{1 0}$ | 4.8 |
| 18 | 0 | 1 | 0 | $\mathbf{1}$ | 0.5 |
| 19 | 0 | 1 | 10 | $\mathbf{1 1}$ | 5.2 |
| 20 | 3 | 2 | 8 | $\mathbf{1 3}$ | 6.2 |
| X | 0 | 1 | 0 | $\mathbf{1}$ | 0.5 |
| 25 | 7 | 3 | 3 | $\mathbf{1 3}$ | 6.2 |
| 26 | 0 | 1 | 4 | $\mathbf{5}$ | 2.4 |
| 27 | 5 | 7 | 2 | $\mathbf{1 4}$ | 6.7 |
| 34 | 1 | 0 | 0 | $\mathbf{1}$ | 0.5 |
| 38 | 4 | 4 | 9 | $\mathbf{1 7}$ | 8.1 |
| 40 | 1 | 1 | 1 | $\mathbf{3}$ | 1.4 |
| 41 | 7 | 1 | 1 | $\mathbf{9}$ | 4.3 |
| 42 | 1 | 0 | 0 | $\mathbf{1}$ | 0.5 |
| 43 | 0 | 0 | 1 | $\mathbf{1}$ | 0.5 |
| 45 | 12 | 5 | 0 | $\mathbf{1 7}$ | 8.1 |
| 46 | 0 | 1 | 1 | $\mathbf{2}$ | 1.0 |
| Y | 3 | 4 | 0 | $\mathbf{7}$ | 3.3 |
| PLG | 20 | 10 | 5 | $\mathbf{3 5}$ | 16.7 |
| RWF | 0 | 0 | 1 | $\mathbf{1}$ | 0.5 |
| TOTAL | $\mathbf{9 3}$ | $\mathbf{6 4}$ | $\mathbf{5 3}$ | $\mathbf{2 1 0}$ | 100 |

Table 4. MLNI per grave based on pair matching, loose teeth and individuals with in situ teeth.

### 3.3. Age-at-Death

From Ismenion Hill, 126 (60\%) of the 210 individuals present had undeveloped dentition and were able to be aged following the London Atlas of Tooth Development (LATD). Loose teeth not associated with specific individuals were assessed by dental development, while in situ teeth in mandibles and maxillae were evaluated using dental development and eruption. Ages ranged from 38 weeks in utero to 16.5 years (Table 5). The most common age-at-death was 4.5 years with 14 ( $11.1 \%$ ) individuals, followed by 5.5 years with 13 ( $10.3 \%$ ) individuals and 6.5 years with 12 ( $9.5 \%$ ) individuals (Figure 14). The majority of the non-adults ( $80.3 \%$ ) died after one year of age. Overall, 99 individuals died in infancy, 33 died as a juvenile and 1 died in adolescence (Table 6). Consequently, there is a high infant mortality with over half (51\%) of the population at Ismenion Hill dying during infancy.

| Age | Number of Individuals | Percent (\%) |
| :---: | :---: | :---: |
| 38 weeks in utero | 1 | 0.8 |
| 1.5 months | 4 | 3.2 |
| 2.5 months | 0 | 0.0 |
| 3.5 months | 0 | 0.0 |
| 4.5 months | 8 | 6.3 |
| 5.5 months | 0 | 0.0 |
| 6.5 months | 0 | 0.0 |
| 7.5 months | 7 | 5.6 |
| 8.5 months | 0 | 0.0 |
| 9.5 months | 0 | 0.0 |
| 10.5 months | 5 | 4.0 |
| 11.5 months | 0 | 0.0 |
| 1.5 years | 6 | 4.8 |
| 2.5 years | 7 | 5.6 |
| 3.5 years | 8 | 6.3 |
| 4.5 years | 14 | 11.1 |
| 5.5 years | 13 | 10.3 |
| 6.5 years | 12 | 9.5 |
| 7.5 years | 9 | 7.1 |
| 8.5 years | 6 | 4.8 |
| 9.5 years | 6 | 4.8 |
| 10.5 years | 4 | 3.2 |
| 11.5 years | 6 | 4.8 |


| Age | Number of Individuals | Percent (\%) |
| :---: | :---: | :---: |
| 12.5 years | 2 | 1.6 |
| 13.5 years | 6 | 4.8 |
| 14.5 years | 1 | 0.8 |
| 15.5 years | 0 | 0.0 |
| 16.5 years | 1 | 0.8 |
| TOTAL | $\mathbf{1 2 6}$ | 100 |

Table 5. Number of individuals by age-at-death based on dental development and eruption following the LATD.


Figure 14. Number of individuals by age-at-death based on dental development and eruption following the LATD.

| Age Category | Number of Individuals | Percent (\%) |
| :---: | :---: | :---: |
| Infancy (birth-7.5 years) | 94 | 74.6 |
| Juveniles (7.6-14.5 years) | 31 | 24.6 |
| Adolescence (14.6-20.5 years) | 1 | 0.8 |

Table 6. Number of individuals per age category based on dental development and eruption following the LATD.

### 3.4. Dental Wear

There are $910(48.6 \%)$ incisors, canines and premolars that were scored following Smith (1984) (Table 7). The most common wear stage was three with 237 (26.0\%) teeth having a "dentine line of distinct thickness [or] full cusp removal" (Smith 1984: 46). Another 186 (20.4\%)
teeth were scored with wear stage four, and 172 (18.9\%) teeth with wear stage two. The least common wear stage was eight, with only eight ( $0.9 \%$ ) teeth having "complete loss of crown" (Smith 1984). There were more teeth with lower wear scores, with 670 ( $73.6 \%$ ) teeth scoring four or below, and 240 (26.4\%) teeth scoring five or above (Figure 15). It should be noted that number of individuals were not calculated for wear stages as dental wear is variable within the mouth and, therefore, difficult to assign a single wear stage to an individual. As well, not all teeth were able to be assessed for wear due to taphonomic, preservation, and pathological conditions.

| Grave | Wear Score |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | TOTAL |
| 4 | 8 | 22 | 3 | 7 | 3 | 5 | 6 | 0 | $\mathbf{5 4}$ |
| 5 | 11 | 1 | 11 | 14 | 11 | 3 | 0 | 0 | $\mathbf{5 1}$ |
| 9 | 14 | 14 | 9 | 7 | 7 | 3 | 0 | 0 | $\mathbf{5 4}$ |
| 12 | 1 | 13 | 21 | 25 | 0 | 0 | 1 | 0 | $\mathbf{6 1}$ |
| 19 | 3 | 14 | 33 | 13 | 16 | 2 | 0 | 0 | $\mathbf{8 1}$ |
| 20 | 4 | 19 | 37 | 13 | 5 | 1 | 0 | 0 | $\mathbf{7 9}$ |
| 25 | 3 | 11 | 4 | 2 | 3 | 1 | 1 | 4 | $\mathbf{2 9}$ |
| 26 | 1 | 16 | 14 | 4 | 2 | 2 | 1 | 1 | $\mathbf{4 1}$ |
| 27 | 12 | 8 | 8 | 9 | 16 | 3 | 2 | 0 | $\mathbf{5 8}$ |
| 34 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | $\mathbf{1}$ |
| 38 | 0 | 8 | 28 | 15 | 11 | 20 | 6 | 2 | $\mathbf{9 0}$ |
| 40 | 1 | 12 | 7 | 2 | 0 | 0 | 2 | 0 | $\mathbf{2 4}$ |
| 41 | 0 | 8 | 10 | 6 | 1 | 0 | 1 | 0 | $\mathbf{2 6}$ |
| 42 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | $\mathbf{4}$ |
| 43 | 0 | 0 | 1 | 3 | 3 | 3 | 0 | 0 | $\mathbf{1 0}$ |
| 45 | 5 | 2 | 8 | 10 | 2 | 2 | 0 | 0 | $\mathbf{2 9}$ |
| X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $\mathbf{0}$ |
| Y | 3 | 6 | 11 | 5 | 7 | 4 | 3 | 0 | $\mathbf{3 9}$ |
| PLG | 9 | 18 | 28 | 46 | 38 | 18 | 4 | 0 | $\mathbf{1 6 1}$ |
| RWF | 0 | 0 | 0 | 5 | 5 | 4 | 3 | 1 | $\mathbf{1 8}$ |
| TOTAL | $\mathbf{7 5}$ | $\mathbf{1 7 2}$ | $\mathbf{2 3 7}$ | $\mathbf{1 8 6}$ | $\mathbf{1 3 0}$ | $\mathbf{7 2}$ | $\mathbf{3 0}$ | $\mathbf{8}$ | $\mathbf{9 1 0}$ |
| $\boldsymbol{\text { P }}$ | 8.2 | 18.9 | 26.0 | 20.4 | 14.3 | 7.9 | 3.3 | 0.9 | 100 |

Table 7. Division of wear sum scores following Smith (1984) per grave.


Figure 15. Number of teeth per wear stage following Smith (1984).

There were 554 (29.6\%) molars that were assessed for wear score sums following Scott (1979) (Table 8). The most common quadrant wear score was four, and the most common wear score sum fell between 17 and 20, with 103 (18.5\%) teeth. Quadrant score one with sum scores falling between five and eight, and quadrant score two with sum scores falling between nine and twelve, were also common, each with $101(18.2 \%)$ teeth. Overall, there were more molars with lower wear sum scores than there are with higher scores, with 393 (70.9\%) teeth with sum scores of 20 or below, and 161 (29.1\%) teeth with scores of 21 or above (Figure 16). Thus, there appeared to be more young adults present at Ismenion Hill than older adults, as there was a higher prevalence of lower wear scores.

| Grave | Wear Sum Score |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{0 - 4}$ | $\mathbf{5 - 8}$ | $\mathbf{9 - 1 2}$ | $\mathbf{1 3 - 1 6}$ | $\mathbf{1 7 - 2 0}$ | $\mathbf{2 1 - 2 4}$ | $\mathbf{2 5 - 2 8}$ | $\mathbf{2 9 - 3 2}$ | $\mathbf{3 3 - 3 6}$ | $\mathbf{3 7 - 4 0}$ | TOTAL |
| 4 | 0 | 7 | 5 | 2 | 13 | 2 | 0 | 1 | 1 | 0 | $\mathbf{3 1}$ |
| 5 | 1 | 7 | 8 | 2 | 6 | 5 | 1 | 0 | 1 | 0 | $\mathbf{3 1}$ |
| 9 | 8 | 17 | 7 | 2 | 2 | 6 | 1 | 0 | 0 | 0 | $\mathbf{4 3}$ |
| 12 | 0 | 0 | 13 | 10 | 5 | 0 | 4 | 0 | 0 | 0 | $\mathbf{3 2}$ |
| 18 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | $\mathbf{1}$ |
| 19 | 0 | 19 | 8 | 2 | 10 | 6 | 2 | 3 | 4 | 2 | $\mathbf{5 6}$ |
| 20 | 0 | 16 | 9 | 6 | 10 | 11 | 4 | 0 | 0 | 0 | $\mathbf{5 6}$ |
| 25 | 0 | 5 | 9 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | $\mathbf{1 8}$ |
| 26 | 1 | 1 | 3 | 11 | 10 | 1 | 0 | 1 | 0 | 0 | $\mathbf{2 8}$ |
| 27 | 2 | 3 | 6 | 4 | 9 | 16 | 2 | 0 | 0 | 4 | $\mathbf{4 6}$ |
| 38 | 0 | 2 | 8 | 6 | 7 | 11 | 10 | 4 | 3 | 2 | $\mathbf{5 3}$ |
| 40 | 0 | 4 | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | $\mathbf{1 0}$ |
| 41 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | $\mathbf{8}$ |
| 42 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | $\mathbf{2}$ |
| 43 | 0 | 0 | 0 | 1 | 1 | 3 | 0 | 0 | 0 | 0 | $\mathbf{5}$ |
| 45 | 5 | 2 | 9 | 7 | 5 | 3 | 0 | 1 | 0 | 0 | $\mathbf{3 2}$ |
| X | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | $\mathbf{1}$ |
| Y | 0 | 2 | 4 | 0 | 1 | 1 | 0 | 0 | 1 | 3 | $\mathbf{1 2}$ |
| PLG | 4 | 11 | 9 | 8 | 20 | 13 | 8 | 0 | 4 | 6 | $\mathbf{8 3}$ |
| RWF | 0 | 1 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | $\mathbf{6}$ |
| TOTAL | $\mathbf{2 1}$ | $\mathbf{1 0 1}$ | $\mathbf{1 0 1}$ | $\mathbf{6 7}$ | $\mathbf{1 0 3}$ | $\mathbf{8 1}$ | $\mathbf{3 5}$ | $\mathbf{1 0}$ | $\mathbf{1 5}$ | $\mathbf{2 0}$ | $\mathbf{5 5 4}$ |
| \% | 3.8 | 18.2 | 18.2 | 12.1 | 18.6 | 14.6 | 6.3 | 1.8 | 2.7 | 3.6 | 100 |

Table 8. Division of wear sum scores following $\operatorname{Scott}$ (1979) per grave.


Figure 16. Number of teeth per wear stage following Scott (1979).

### 3.5. Dental Non-Metrics

The dental collection of Ismenion Hill presented four dental non-metric traits. There were 26 (12.4\%) individuals with Carabelli's cusps, appearing on maxillary molars (Figure 17). Eleven (5.2\%) people had shovel shaped incisors, occurring on maxillary and mandibular central and lateral incisors (Figure 18). Two (1.0\%) individuals had buccal enamel folds (Figure 19), and one ( $0.5 \%$ ) person had a pegged-shaped root (Figure 20).


Figure 17. Example of a Carabelli's cusp (red arrow) found on a $\mathrm{RM}^{3}$.


Figure 18. Example of shovel-shaped $\mathrm{LI}^{1}$.


Figure 19. Example of an enamel fold on a $\mathrm{LI}^{2}$ (red arrow).


Figure 20. The pegged-shaped incisor from Grave 25.

### 3.6. Dental Calculus

Dental calculus was found on 128 (6.8\%) loose and in situ teeth (Table 9). A majority of the teeth with calculus (79.7\%) were from individuals with preserved mandibles and maxillae. Calculus appeared on all tooth areas, except the occlusal surface, and ranged from small calcifications on the crown (Figure 21) to coverage of the whole crown with extension on the root (Figure 22), and was seen varying within an individual (Figure 23).

| Grave | Number of Teeth | Percent (\%) |
| :---: | :---: | :---: |
| 4 | 20 | 15.6 |
| 9 | 1 | 0.8 |
| 12 | 2 | 1.6 |
| 19 | 43 | 33.6 |
| 20 | 33 | 25.8 |
| 25 | 4 | 3.1 |
| 26 | 7 | 5.5 |
| 27 | 7 | 5.5 |
| 41 | 8 | 6.3 |
| X | 1 | 0.8 |
| PLG | 2 | 1.6 |
| TOTAL | $\mathbf{1 2 8}$ | 100 |

Table 9. Number of teeth with dental calculus by grave. Graves with no calculus were excluded.


Figure 21. Example of light dental calculus (red arrow) found on Skeleton 2 ("Largest Male"), Grave 20.


Figure 22. Example of heavy dental calculus covering a majority of the crown surface found on the "Youngest Adult", Grave 19.


Figure 23. Mandible of Skeleton 2 ("Largest Male"), Grave 20, with heavy calculus on the anterior teeth and light calculus on the distal teeth.

### 3.7. Dental Pathologies

### 3.7.1. Dental Caries

Dental caries were found on 107 (5.7\%) loose and in situ teeth (Table 10). Caries ranged in size from large, deep holes to small pits, and were seen on all surfaces of the tooth crown and root, which is rather unusual as caries are most commonly isolated to the crown (Hillson 1996)
(Figures 24 and 25). Of these, five (4.8\%) teeth had multiple caries present on a single tooth
(Figure 26). Additionally, eight individuals with associated maxilla and mandibles had abscesses likely resulting from tooth infections (Figure 27).

| Grave | Number of Teeth | Percent (\%) |
| :---: | :---: | :---: |
| 4 | 4 | 3.7 |
| 5 | 2 | 1.9 |
| 9 | 2 | 1.9 |
| 10 | 1 | 0.9 |
| 12 | 6 | 5.6 |
| 19 | 7 | 6.5 |
| 20 | 4 | 3.7 |
| 25 | 6 | 5.6 |
| 26 | 7 | 6.5 |
| 27 | 10 | 9.3 |
| 38 | 10 | 9.3 |
| 40 | 1 | 0.9 |
| 41 | 1 | 0.9 |
| 43 | 1 | 0.9 |
| 45 | 15 | 14.0 |
| Y | 4 | 3.7 |
| PLG | 24 | 22.4 |
| RWF | 2 | 1.9 |
| TOTAL | $\mathbf{1 0 7}$ | 100 |

Table 10. Number of teeth with caries by grave. Graves with no caries were excluded. Abscesses were excluded in this table.


Figure 24. Example of large caries on occlusal surface.


Figure 25. Example of small caries (red arrow) on mesial surface.


Figure 26. Mandible of "Youngest Adult", Grave 19, with abscess under $\mathrm{RM}_{1}$.


Figure 27. An $\mathrm{LM}^{3}$ with caries on the (a) mesial side and (b) distal side.

### 3.7.2. Periodontal Disease

Furthermore, 24 (11.4\%) individuals with associated mandibles and maxillae exhibited periodontal disease (Table 11; Figure 28). Periodontal disease is the resorption of the alveolar bone at the CEJ (Lavigne \& Molto 1995), and thus can only be assessed for in situ teeth. While this is not a pathology of the tooth, it does indirectly affect teeth through increased surface exposure which can lead to the development of dental calculus and caries.

| Grave | Number of Individuals | Percent (\%) |
| :---: | :---: | :---: |
| 4 | 1 | 4.3 |
| 12 | 3 | 13.0 |
| 19 | 4 | 17.4 |
| 20 | 4 | 17.4 |
| 25 | 1 | 4.3 |
| 26 | 1 | 4.3 |
| 38 | 3 | 13.0 |
| 41 | 1 | 4.3 |
| 46 | 1 | 4.3 |
| PLG | 4 | 17.4 |
| TOTAL | $\mathbf{2 3}$ | 100 |

Table 11. Individuals with in situ teeth exhibiting periodontal disease by grave. Graves with no periodontal disease were excluded.


Figure 28. An individual from Grave 25 with resorbed alveoli (red arrows) indicative of periodontal disease.

### 3.7.3. Short Root Anomaly

Short Root Anomaly (SRA) was identified at Ismenion Hill in two (1.0\%) individuals. This pathology is characterized by short, blunted, yet fully complete roots with regular crowns (Valladares Neto et al. 2013). There were four teeth with this pathology. Three came from one individual ( $\mathrm{RI}^{1}, \mathrm{PM}_{\text {? }}$ and PM ?) (Figure 29) in Grave 5, and a $\mathrm{LI}^{1}$ (Figure 30) from an individual in Grave 9.


Figure 29. (a) $\mathrm{RI}^{1}$, (b) PM ? and (c) PM? with SRA from Grave 5.


Figure 30. LI $^{1}$ from Grave 9 with SRA.

### 3.7.4. Enamel Notch

Moreover, in Grave 12, there is a $\mathrm{RI}^{1}$ with a notch in the enamel on the mesial side, curving about 3 mm into the buccal side (Figure 31). This was not listed as a non-metric trait in the ASUDAS, and may be the result of trauma (Goenka et al. 2010; Goenka et al. 2011).


Figure 31. $\mathrm{RI}^{1}$, Grave 12, with enamel notch (red arrow) (a) appearing on mesial side and (b) curving into the buccal side.

### 3.6.5. Linear Enamel Hypoplasia

Linear enamel hypoplasia (LEH) was observed on 324 (17.3\%) teeth, from 85 (40.5\%) individuals, with 565 individual LEH bands (Table 12). Thus, $40.5 \%$ of the population at Ismenion Hill had at least one LEH. Most LEH occurred on permanent canines (31.3\%), followed by incisors (29.4\%), premolars (22.0\%) and molars (14.2\%) (Appendix C, Table 3). This is a typical distribution of LEH as the bands are less visible on the premolars and molars as the geometry of the incisors and canines makes the LEH bands more apparent (Ogden 2007). There was one deciduous $\mathrm{rc}_{1}$ from the PLG with a LEH line present. Unfortunately, the photo of the tooth does not adequately highlight the LEH band. At times, LEH was seen in multiple adjacent teeth within the same individual. An example of this was seen with Skeleton D, or "Second Largest Male", from Grave 20. This individual had a preserved mandible and maxilla
with every tooth present having at least one LEH line that appears on multiple teeth that were formed at the same time (Figure 32). This suggests that there was a stress event, or series of events, that impacted multiple teeth at once. As well, many teeth had multiple LEH bands. At most, there were four people with five bands and one individual with six (Figure 33).

| Grave | Number of Individuals | Percent (\%) |
| :---: | :---: | :---: |
| 4 | 2 | 2.4 |
| 5 | 5 | 5.9 |
| 9 | 8 | 9.4 |
| 12 | 6 | 7.1 |
| 19 | 9 | 10.6 |
| 20 | 7 | 8.2 |
| 25 | 2 | 2.4 |
| 26 | 3 | 3.5 |
| 27 | 4 | 4.7 |
| 38 | 10 | 11.8 |
| 40 | 2 | 2.4 |
| 41 | 5 | 5.9 |
| 45 | 4 | 4.7 |
| 46 | 1 | 1.2 |
| Y | 2 | 2.4 |
| PLG | 15 | 17.7 |
| TOTAL | $\mathbf{8 5}$ | 100 |

Table 12. Number of individuals with LEH by grave. Graves without LEH were excluded.


Figure 32. Maxilla of Skeleton D (" $2^{\text {nd }}$ Largest Male"), Grave 20, with visible LEH bands that can be traced to the adjacent teeth (red arrows).


Figure 33. LC $C_{1}$ from PLG with six LEH bands (red arrows).

The LEH measurements were converted to age-at-deposition estimations using equations established by Goodman and Rose (1990). Unfortunately, as this method did not include equations for third molars, only $508(90.0 \%)$ of the 565 LEH bands observed were converted to age estimations (Table 13). The most common ages for the development of an LEH band was later in childhood, between 4 and $4.99(28.1 \%)$ years, followed by 3-3.99(25.4\%) years and 22.99 (24.2\%) years (Figure 34). Three individuals had LEH bands that formed during the fetal stage, with the youngest being deposited at 6 months in utero. Interestingly, all three individuals died at 6.5 years of age. The latest LEH band for all individuals developed at 6.8 years.

| Age Range (years) | Number of LEH Bands | Percent (\%) |
| :---: | :---: | :---: |
| in utero | 3 | 0.6 |
| $0-0.99$ | 4 | 0.8 |
| $1-1.99$ | 35 | 6.9 |
| $2-2.99$ | 123 | 24.2 |
| $3-3.99$ | 129 | 25.4 |
| $4-4.99$ | 143 | 28.1 |
| $5-5.99$ | 46 | 9.1 |
| $6-6.99$ | 25 | 4.9 |
| TOTAL | $\mathbf{5 0 8}$ | 100 |

Table 13. Number of LEH bands per age range.


Figure 34. Number of LEH bands per age range, demonstrating the greater amount of LEH in the later years.

## CHAPTER 4: DISCUSSION

The results of this research were reviewed against the cultural context of Byzantine Greece to help understand the characteristics of the dental remains. This provided valuable insight into the lifeways and experiences of the population at Ismenion Hill.

### 4.1. Number of Individuals

Notably, the results of this dental analysis did not directly match the bone examination (Liston 2017; Liston 2023 personal communication). The dentition indicated there were at least 210 individuals buried at the Ismenion Hill, while the bones suggested 184 individuals (Liston 2017), giving a discrepancy of 26 people. This could be accounted for by those individuals with mixed dentition. Otherwise, it could be due to the fact that teeth are more likely to survive into the archaeological record as they are the hardest material in the body, being comprised mainly of inorganic material that is highly resistant to decomposition and taphonomic processes (Cassman \& Odegaard 2006; de Dios Teruel et al. 2015). Thus, teeth are more likely to present a higher and more accurate number of individuals present than one based on bones themselves (Ghazi 1994; Roberts \& Manchester 2005). Furthermore, the bone analysis indicated that the population contains more adults than non-adults (Liston 2017), while the dental analysis suggests the opposite. This difference could be again caused by teeth's ability to survive in the burial environment, and the frailty of non-adults bones, often leading them to be lost during burial, (Kamp 2001; Mays 1998; Manifold 2012), due to excavation processes (Scheuer \& Black 2004; Manifold 2012), and storage methods (Holland et al. 1997; Manifold 2012; Manifold 2013). Consequently, the dental record should be given greater weight when determining the number of
people present at Ismenion Hill, however, the bone analysis should not be disregarded, but rather used to support this conclusion. It must be noted that this dental analysis does have its limitations when determining MLNI. While the MLNI in this study was carefully assessed to ensure the highest accuracy possible, it is ultimately very difficult to determine the correct number of people present from dentition as it can never truly be known what teeth belong to the same individual. The dental collection of Ismenion Hill is especially challenging as most of the teeth examined (62.0\%) were co-mingled and completely separate from any context except for a grave association. Further, many of the burials at Ismenion Hill were disturbed, with the upper portion of the skeletons removed from the site in antiquity. So, the number of individuals determined from teeth alone, could unintentionally exclude individuals with no surviving dentition. Therefore, while it was determined that 210 people were buried at the site, this number must be used with the acknowledgement of the study's limitations.

### 4.3. Dental Calculus

The prevalence rate of dental calculus at Ismenion Hill is $6.7 \%$, which is lower compared to other contemporary sites with a majority (71.4\%) having a prevalence rate over 20\% (Table 14; references within). This discrepancy could be due to the fact that most of the teeth at Ismenion Hill were loose in the grave and were stored in large bags often containing more than 30 individual teeth. These situations can cause parts of the calculus to be nicked off in the burial and in storage, thus lowering the actual prevalence of calculus (Holland et al. 1997; Manifold 2012; Manifold 2013). As well, in Byzantine Greece, physicians advised the public to brush their teeth and gums with dill and white wine in between meals as a preventative measure against the development of dental plaque (Panteleakos et al. 2010). However, the lower prevalence of
calculus could indicate the population consumed little animal meat, as it is considered a 'sticky' food that generates large amounts of dental plaque and thus calculus (Larsen 1997; Lieverse 1999; Tritsaroli \& Karadima 2017). So, it is suggested that the population at Ismenion Hill relied more heavily on plant foods than meat resources.

### 4.4. Dental Caries

The prevalence rate of dental caries at Ismenion Hill (5.7\%) falls just below the average prevalence of other contemporary Greek sites (8.5\%) (Table 14; references within). The low rate of caries can be caused by numerous factors. During this time, many people brushed their teeth as a means of combatting the development of caries (Panteleakos et al. 2010). Additionally, as majority of the population at Ismenion Hill died as non-adults, it is possible that there was not enough time for caries to develop before death (Veiga et al. 2016). As well, caries can weaken the tooth structure making it more susceptible to breakage in the burial environment and in storage (Krawcyzk et al. 2014). Further, the occurrence of caries could be an indicator of subsistence practice, based on the understanding that the transition from hunter-gatherer to agricultural systems increased the rate of dental caries (Lukacs 1996; Larsen 1997; Hillson 2023; Tayles et al. 2009; Turner 1978). Accordingly, hunter-gatherer communities have a prevalence between $0-5.3 \%$, while agriculturalists fall within $2.2-26.9 \%$, and a mixed subsistence practice of the two are seen between $0.44-10.3 \%$ (Michael et al. 2017; Schollmeyer \& Turner 2004; Turner 1978, 1979). Ismenion Hill, falls within each of these ranges, suggesting they practiced a mixed food strategy containing both harvested and domesticated foods, and hunted and gathered resources (See Appendix A; Bintliff 1996, 2012; Kaplan 1992; Tritsaroli et al 2022). This mixed practice was seen throughout Byzantine Greece as determined from historical, archaeological
and bioarchaeological analyses (Bourbou \& Richard 2007; Dotsika et al. 2018; Kwok 2015; Michael et al. 2017). However, because there are other factors that affect the rate of caries, including hygienic practices and storage methods, any conclusions about diet drawn from the prevalence of caries must be suggestive and considered in light of its limitations.

### 4.5. Linear Enamel Hypoplasia

The prevalence of LEH present at Ismenion Hill, with $16.9 \%$ of teeth having at least one LEH band, nearly matches the average of other contemporary sites within Greece (18.7\%) (Table 14; references within). Thus, it appears that the population at Ismenion Hill was not subjected to extraordinary stress during early childhood as their levels were relatively similar to concurrent sites. However, it is difficult to comment on the specific cause of LEH in those that do exhibit it as it is influenced by many factors including diet, disease, genetics, environment and social status (Aufderheide \& Rodríguez-Martín 1998; Bereczki et al. 2019; Goodman \& Martin 2002;

Hillson 1996; King et al. 2005; Larsen 2015; Ortner 2003; Roberts \& Manchester 2005; Waldron 2009).

| Greek Sites | Calculus <br> Prevalence <br> (\%) | Caries <br> Prevalence (\%) | LEH <br> Prevalence (\%) | Reference |
| :---: | :---: | :---: | :---: | :---: |
| Thebes | 44.2 | 4.0 | 29.8 | Tritsaroli 2006 |
| Pantanassa |  | 21.9 |  | Tritsaroli 2006 |
| Spata |  | 4.5 |  | Tritsaroli 2006 |
| Maroneia | 31.1 | 10.2 | 17.6 |  <br> Karadima 2017 |
| Akraiphia | 28.1 | 12.5 | 15.6 |  <br> Karadima 2017 |
| Xironomi | 37.1 |  | 21.9 | Bourbou 2010 |


| Greek Sites | Calculus <br> Prevalence <br> (\%) | Caries <br> Prevalence (\%) | LEH <br> Prevalence (\%) | Reference |
| :---: | :---: | :---: | :---: | :---: |
| Isthmia | 32.4 | 8.0 |  | Rife 2012 |
| Gouriza | 73.7 | 16.6 | 30.1 | Tritsaroli 2019 |
| Orchomenos | 57.9 | 14.9 | 17.3 | Tritsaroli et al 2022 |
| Sourtara <br> Galaniou <br> Kozanis | 11.0 | 4.0 |  |  <br> Tsilipakou 2009 |
| Korytiani | 21.5 | 10.7 | 8.16 |  <br> Xirotiris 2009 |
| Eleutherna | 4.5 | 2.9 | 1.2 | Bourbou 2010 |
| Gortyn | 19.1 | 3.3 | 9.7 | Bourbou 2010 |
| Kastella | 32.6 | 8.3 | 2.1 | Bourbou 2010 |
| Kefali | 9.1 | 4.2 | 2.1 | Bourbou 2010 |
| Stylos | 30.9 | 8.5 | 14.1 |  |
| Average | $\mathbf{6 . 7}$ | $\mathbf{5 . 6}$ | $\mathbf{1 6 . 9}$ |  |
| Ismenion Hill | Bourbou 2010 |  |  |  |

Table 14. The dental caries, calculus and LEH prevalence rates at various contemporary Greek sites. Blank boxes indicate rates that were not recorded in the associated study and are, therefore, not known.

### 4.6. Childhood Mortality

While the low rate of calculus and caries within the population of Ismenion Hill suggests they are orally healthy, there was clearly a high infant mortality rate with majority $(74.6 \%)$ of individuals dying in infancy. This, evidently, matches other contemporary sites. Bourbou (2010) examined the demography of the Byzantine Greek sites, Eleutherna, Gortyn, Kastella, Kefali, Knossos and Stylos, and noticed that, at each site, over 50\% of the dead falling in this age range. Similar results were found at Akraophnio (Tritsaroli \& Karadima 2017), Xironomi and Orchomenos (Tritsaroli et al. 2022). Further, as seen in historical journal entries, many
physicians advised pregnant women and new parents of the dangers of evil spirits and demons, indicating a high concern with childhood death. A particular worry was the female demon Gylou who, envious of expecting women, was known to cause miscarriages, kill newborns and force mothers to develop postpartum mental and physical illnesses (Greenfield 1988; Hurwitz 1992; Foskolou 2014; Fulghum-Heintz 2003). Another spirit of concern, unnamed, was a half-woman, half-serpent who terrorized pregnant women and newborns (Russell 1995; Vikan 1984). As well, the creature known as the "Wandering Womb" was a disheveled woman with octopus-like features representing the uterus who was responsible for many illnesses women experienced including migraines and skin conditions (Aubert 1989). The only protection against these evil entities was a saint known as the Holy Rider that watched over newborns and their families through the Evil Eye symbol (Dickie 1995; Fulghum-Heintz 2003). Physicians, midwives and extended family members suggested that the parents place above the cradle an amulet of the Holy Ride on one side, and the Evil Eye on the reverse (Koukoules 1951; Meyer 2005; Talbot 1997). Indeed, these amulets have been found in archaeological sites and most commonly in domestic settings (Figure 35) (Foskolou 2014; Fulghum-Heintz 2003). Interestingly, an Evil Eye pendant was found in Grave 20, where 13 of the 18 individuals present were non-adult (Figure 36) (Daly \& Larson 2017). Moreover, childhood death was commonly cited in the Byzantine Vita's, which are written records of the lives of saints. For example, the Vita St. Evaristos mentions a father who had lost four consecutive children during birth (van de Vorst 1923), Vita St. Peter of Atroa sees a couple who lost all 13 of their children prematurely (Laurent 1956), and Vita Theodora of Thessaloniki describes a single year in which four children died at the monastery (Paschalides 1996). Other monastic records indicate high child mortality (Laiou 1981,

1985; Patlagean 1973), including one in which over half of the children living on church-owned properties died before the age of five years (Laiou 1977; Patlagean 1977).


Figure 35. Pendant of the (a) Holy Rider, and (b) Evil Eye; Athens, $6-7^{\text {th }}$ century A.D, Athens (Foskolou 2014: 341).


Figure 36. Evil Eye pendant found at Ismenion Hill, Grave 20 (Daly \& Larson 2017).

Infant death in Byzantine Greece has been attributed to harmful birthing practices causing trauma to both child and mother, familial social standing, health of the mother, birth disorders and weaning practices (Barker 1992a, 1992b; Barker \& Martin 1992; Barker \& Osmond 1986; Lewis 2007; WHO 2006). Interestingly, at Ismenion Hill, the common age-at-death (2.0-4.99 years) loosely aligns with the popular age for LEH deposition (3.5-6.5 years) indicating that between the period of two and six years of age, children could have been subjected to stressful events.

The most significant stress event occurring during this time was experienced by almost every child - the weaning from breastmilk to a solid 'adult' diet (Bourbou et al 2013; Katzenbery et al. 1996; Kwok 2007). Much of what is known about Byzantine Greek weaning practices comes from the personal writings of physicians. Soranus of Ephesus wrote the book

Gynaecology to provide the public with proper reproduction methods, birthing practices and weaning customs (Temkin 1991). Oribasius published on the specifics of a newborn's diet (Grant 1997). Galen of Pergamum detailed birthing anatomy and acceptable ways of caring for infants (Bourbou \& Richards 2007). Physicians collectively agreed on a general weaning regimen that would ensure the health of the child (Jackson 1989). After birth, the infant was not to be fed by the breast for the first ten days of life, as it was believed that the colostrum was harmful due to its lemony-yellow colour and thicker consistency (Bourbou 2010; Bourbou et al. 2013; Lascaratos \& Poulakou-Rebelakou 2003). The replacement for breastmilk during this time was hydromel, a mixture of honey and lukewarm water, which was given as a drip throughout the day (Bourbou et al. 2013; Bourbou \& Richards 2007). Oribasius adamantly advised against adding heavier foods, such as butter, to this mix, as they were considered too thick for the infant to digest and would remain undigested for an extended period of time (Grant 1997; Orme 2001). After the ten days of hydromel, infants could be breastfed by either the mother or a wet-nurse (Bourbou 2010; Bourbou et al. 2013). While nursing, women were to consume mainly domestic animal protein and fish to ensure the quality of milk being produced. It was then recommended that infants should begin weaning off breastmilk between six and 20 months in age (Bourbou et al. 2013; Temkin 1991). However, if the infant became ill during this time, weaning must cease and they were to continue on breastmilk (Bourbou et al. 2013; Temkin 1991). Most physicians, including Soranus, Oribasius, Paul of Aegina and Aetius of Amida, advised that the first food introduced to an infant was hydromel mixed with bread crumbled and softened with wine or goat's milk, as cow's milk was considered dangerous. This mixture was to be moistened enough that the infant could drink it (Bourbou 2010). After a couple of months, infants were given a soup made of porridge, or an egg softened so it could be sipped (Bourbou 2010; Temkin 1991).

When teeth developed, around 18-24 months of age, the child was given cereals to eat (Temkin 1991). It was heavily cautioned, however, that breastmilk was not to be abruptly ceased while other foods were introduced (Jackson 1989; Katzenberg et al. 1996; Orme 2001).

The age at which breastmilk was fully removed from a child's diet was not strict, with literary and bioarchaeological evidence indicating weaning could cease anytime between two and six years of age. Most literary evidence for the termination of weaning is found in the Vita's. The Vita of St. Thekla describes a child who at 18 months was walking and refusing milk (Dagron 1978). Vita of Symoen Stylites the Younger professes that he refused his mother's milk at two years (van de Ven 1962). Vita of St. Alypois mentions a three year old child who had recently stopped breastfeeding (Delehaye 1923), while Vita of Basil the Younger references a sick mother and child of four years who was still being breastfed (Vilinskij 1911).

Bioarchaeological evidence for the cessation of weaning comes mainly from stable isotope analysis. In essence, weaning analysis examines the isotope values of nitrogen-15 $\left({ }^{15} \mathrm{~N}\right)$ and carbon-13 $\left({ }^{13} \mathrm{C}\right)$, both of which are highly concentrated in breastmilk and will therefore be elevated during periods of breastfeeding. Scholars regard the period in which these values drop and stabilize at lower rates as the marked end of breastfeeding (Fogel et al. 1989; Fuller et al. 2006; Katzenberg et al. 1993; Kwok 2015). Stable isotope analysis was first used as a means of understanding weaning by Holt (2009) who examined the Greek colony of Apollonia and saw elevated isotope values well into the fourth year of life. Pennycock (2013) received similar results at the sites of Stymphalos and Zaraka, with isotope rates dropping between ages three and four years. Bourbou and colleagues (Bourbou et al. 2013; Bourbou \& Garvie-Lok 2009) analyzed eight Byzantine Greek sites (Servia, Petras, Nemea, Eleutherna, Messene, Soutara, Stylos and Kastella) and discovered that the majority of individuals studied had evaluated rates
into the fourth year of age. However, they also found that a few children had no elevated values of ${ }^{15} \mathrm{~N}$ and ${ }^{13} \mathrm{C}$ indicating they were never breastfed, which might explain their premature deaths. As well, at the site of Eleutherna, there were two individuals with high values up until the age of six years indicating a prolonged period of weaning (Bourbou 2010). Finally, Kwok (2017) researched the Byzantine site of Nemea and found that the isotope values lowered between the ages of two and five years. Evidently, literary and bioarchaeological studies suggest that weaning began as early as six months and continued as long as six years.

Some of these Byzantine customs of infant care and weaning were dangerous, resulting in child death and perhaps causing the high infant mortality rate seen at Ismenion Hill and across Greece. First, the denial of the colostrum to newborns was detrimental to infant health as this substance contains over 200 constituents that develop the immune system and stabilize the digestive tract after birth (Lascaratos \& Poulakou-Rebelakou 2003). Without the colostrum, infants were left vulnerable to infections, malnutrition and physiological stress (Bourbou 2010; Bourbou et al. 2013; Lascaratos \& Poulakou-Rebelakou 2003). Moreover, the use of honey as the replacement of colostrum and breastmilk during weaning periods was harmful. Unprocessed honey was often contaminated with spores of Clostridium botulinum, the bacteria that causes botulism, a severe and deadly form of food poisoning. Botulism blocks the transmission of chemical signals from the brain to neuromuscular clusters, which causes difficulties in latching during breastfeeding often leading to malnutrition. If left untreated, it can cause respiratory paralysis resulting in death (Arnon et al. 1979; Bourbou 2010; Fairgrieve \& Molto 2000; Nevas et al. 2005; Shapiro et al. 1998). Furthermore, the addition of goat's milk in weaning foods had severe health implications for children. Byzantine Greeks believed goat's milk was equal in quality to human's milk and was therefore a common replacement. However, goat's milk is very
low in folic acid (vitamin $B_{9}$ ) and cobalamin (vitamin $B_{12}$ ), and the reliance on it, instead of human milk, often lead to severe vitamin deficiencies causing megaloblastic anemia (Bourbou 2010; Chanarin 1990; Fairgreive \& Molto 2000). Ultimately, these dangerous practices contributed to the poor health of infants and juveniles, and accordingly raised the child mortality rate.

### 4.7. Leprosy at Ismenion Hill

A goal of this study was to identify any dental evidence for leprosy as the assessment of the bones of Ismenion Hill indicate at least 21 individuals suffered from the disease (Liston 2017). The prevalence of leprosy (11.4\%) and the presence, and co-occurrence, of other diseases, including metastatic cancer, brucellosis and childhood leukemia, suggest that Ismenion Hill was once the cemetery of an early form of a hospital (Liston 2017; Liston 2023 personal communication). Hospitals in the early years of Byzantine Greece, were religious institutions that tended to the sick, providing rudimentary care consisting of shelter, warmth and basic foods (Miller 1997; Miller \& Nesbitt 2023; Liston 2023 personal communication). In these early times of Christianity, it was believed that leprosy was a 'Holy Disease' and that lepers were marked by God to be destined for heaven, as God was seen caring for and curing lepers. Because of this close relationship between God and leprosy, those infected with the disease often took pilgrimage to religious institutions to received aid. Church buildings, including monasteries, acted as hospitals, in that they provided a place for the ill to stay and be closed to God (Miller 1945). In these ancient times, leprosy was not fully understood or diagnosed properly, so many with similar symptoms or skin diseases travelled to clerical institutions seeking comfort (Blondiaux et al. 2016; Kyriakis 2010; Roffey \& Tucker 2012). Therefore, it is suggested that
those buried at Ismenion Hill could have once travelled to its associated monastery seeking care or a cure at the hands of God (Liston 2023, personal communication).

Caused by the bacterial infection of Mycobacterium leprae, leprosy attacks the peripheral nerves, the upper and lower dermis layers, mucosa of the upper respiratory tract, the eyes, and the skeleton (Barreto et al. 2017; Khudaverdyan et al. 2021; Manchester \& Roberts 1989; Santacroce et al. 2021). Leprosy eventually affects the teeth in its most severe form with five main symptoms that can be seen in the dentition: 1) periodontal disease, 2) antemortem tooth loss (AMTL), 3) dental caries, 4) dental calculus, and 5) uneven dental wear (Ogden \& Lee 2008). Periodontal disease is the resorption of the alveolar bone surrounding the dentition. With leprosy, this resorption is expedited as the infection disrupts the bone remolding cycles and increases the presence of osteoclasts and rate of osteolytic osteocytes (Cortela et al. 2015; Nah et al. 1985). The concentration of $M$. leprae in the mouth causes degeneration of the alveolar bone surrounding the teeth (Ogden \& Lee 2008; Raja et al. 2016). Further, antemortem tooth loss (AMTL) is a common symptom of leprosy. The leprous bacteria introduces granulomatous tissues into the dental pulp, developing first in the anterior teeth and then spreading to the distal molars. The granulomas in the pulp often build osmotic pressure in the tooth which, when released, develops a carie in the tooth and an abscess in the bone. This is followed by expulsion, once the pulp is no longer circulating the tooth is considered dead and it consequently falls out. The tooth socket in the alveolus is then filled and smoothed with woven bone over time. AMTL can also be caused by advanced periodontal disease, where the alveolar bone is resorbed so deeply that the tooth cavity completely recedes and the tooth subsequently falls out (Garrington \& Crump 1968; Ogden \& Lee 2008; Roberts \& Manchester 1983). Moreover, large dental caries are often associated with leprosy as the granulomas in the tooth pulp and the leprous bacteria in
the oral cavity increase the prevalence of caries. As well, leprosy commonly damages the facial nerves leading to full or partial facial paralysis causing food to likely remain stuck in the teeth and create caries, often on the buccal side of the molars (Garrington \& Crump 1968; Guo et al. 2017; Ogden \& Lee 2008). Interestingly, modern studies of leprosy have indicated a positive correlation between bad oral hygiene and the disease, suggesting that the prevalence of caries in leprosy patients is a result of poor hygiene habits (Singh et al. 2022). Furthermore, dental calculus is a common repercussion of advanced leprosy. Facial paralysis often causes food to remain trapped on the buccal side of the distal teeth as the cheek muscles cannot be used to move the food around and out of this area. This trapped food develops into dental plaque and, overtime, continues to build. The dental plaque is then molded by the soft cheek tissues, the continuous food build-up and the intermixture of heavy saliva, and creates a unique form of dental calculus that bulbs out from the crown of the tooth. Molars are most commonly affected by this form of calculus as they are always pressed against the cheek where food, saliva, and bacteria concentrate (Esker \& Via 1969; Garrington \& Crump 1986; Khudaverdyan et al. 2019; Ogden \& Lee 2008). Dental calculus is then exponentiated by poor oral hygiene (Ogden \& Lee 2008; Singh et al. 2022). Finally, the facial neruomuscular damage caused by leprosy often prevents areas of the jaw from being used in masticatory activities. When only one area of the jaw can be used for chewing, it creates an unique wear pattern with heavier wear on the region most used and lighter wear on the other areas. This can occur between the left and right side, or the anterior and distal teeth (Brenner \& Touati 2021; Khudaverdyan et al. 2021; Roberts \& Manchester 1983).

It must be noted that uneven dental wear can be caused by many factors including continuous use in activities (Lukacs \& Pastor 1988; Molnar 2008; Rodrigues et al. 2012),
repetitive presence of a hard foreign object, such as pipes and toothpicks (Estalrrich et al. 2016; Indriati \& Buikstra 2001; Monaco et al. 2022), and intentional dental modification (Burnett 2017; González et al. 2010; Smith-Guzmán et al. 2020). Therefore, there is a possibility that the uneven dental wear seen at Ismenion Hill is not due to leprosy.

Interestingly, there is a proposed correlation between leprosy and linear enamel hypoplasia (LEH). The underlying theory is that while individuals are in a period of physiological stress and developing LEH, they are vulnerable and more susceptible to contracting infectious diseases, including leprosy. Boldsen $(2005,2009)$ found a slightly positive connection between LEH and leprosy infections in adults from Medieval Denmark, however, it was not an interdependence of the two pathologies, but rather shared immunological factors, where individuals exhibited multiple illnesses indicated a poor immune system and general susceptibility to many infections; it was not determined whether this was due to genetics, or social or environmental factors (Khudaverdyan et al. 2019; Magilton 2008; Santacroce et al. 2021). At the medieval Danish leprosarium of Tirup, nearly $50 \%$ of the individuals present exhibited LEH (Bolden 2005). Similarly, the medieval cemetery of Chichester, UK, known for an outbreak of leprosy, demonstrated LEH on over $55 \%$ of the population. However, at the leprosarium of Box Lane, UK, only $25 \%$ of the skeletons examined presented LEH (Papadopoulou \& Buckberry 2019). Considering the relationship between LEH and leprosy appears to be dependent on other factors and not solely disease etiology, and a positive correlation is not consistently seen at sites, along with the limited direct studies on this interdependence, LEH was not used as a means of identifying leprosy within this study (Boldsen 2005, 2009; Khudaverdyan et al. 2019; Papadopoulou \& Buckberry 2019).

There were four adults at Ismenion Hill whose dentition alone suggests they suffered from leprosy. Cranium 1, Grave 26, exhibited periodontal disease across the maxillae and mandible, where $\mathrm{RM}^{1}$ and $\mathrm{RM}^{2}$ were lost prior to death with a large abscess at the tooth cavity base, and the RPM ${ }^{1}$ and LM $^{1}$ bear large caries. $\mathrm{RM}_{1}$ had a large carie on the CEJ of the buccal side, with the right mandible having heavier wear than the left indicating the right was used more frequently for mastication, perhaps due to facial nerve damage (Figure 37). The skeletal remains for Cranium 1 showed evidence for leprous infection (Liston 2017), thus, paired with the dental analysis, it is suggested that this individual most likely had leprosy. Further, an individual from Grave 25 exhibited periodontal disease spreading across the remaining mandible with clear evidence of bone remodelling concentrated below the left incisors and canines. The $\mathrm{RI}_{1}, \mathrm{RM}_{1}$ and $\mathrm{RM}_{3}$ were lost antemortem, with $\mathrm{LM}_{2}$ and $\mathrm{LM}_{3}$ at the CEJ having caries on the buccal side (Figure 38). The anterior teeth were more heavily worn than the distal, suggesting the molars were not used, most likely due to tooth loss and carious infections. The RPM ${ }_{1}$ had the bulbous dental calculus, typically seen with leprosy. As the skeletal remains of this individual were noted as reflecting leprosy (Liston 2017), it seems likely that they suffered from the disease. Moreover, the "Youngest Adult" from Grave 19, exhibited periodontal disease across their mandible and maxilla, $\mathrm{RM}_{1}$ and $\mathrm{LM}_{1}$ had caries on the occlusal and distal surfaces, and abscesses at the root apexes. The mandibular and maxillary left canines, premolars, and molars had the bulbous dental calculus indicating the left side was minimally used possibly due to nerve damage (Figure 39). Likewise, the skeletal remains reflected a leprosy infection (Liston 2017), overall suggesting this individual likely experienced the disease. Finally, an individual from Grave 12 exhibited periodontal disease across their mandible and maxilla, with heavy resorption focused on the anterior teeth. The $\mathrm{LPM} 2, \mathrm{LM}^{1}$ and $\mathrm{LM}^{2}$ were lost antemortem, and the $\mathrm{RM}_{1}$ had a large abscess
at the root apex. There was slightly heavier wear on the anterior teeth suggesting they were used more frequently, and there was bulbous calculus present on the mandibular premolars and molars (Figure 40). While the skeletal analysis did not note this individual for leprosy (Liston 2017), their dentition is suggestive that they suffered from it.


Figure 37. Cranium 1, Grave 26, right side of mandible with large caries and wear.


Figure 39. "Youngest Adult", Grave 19, left side of mandible with large caries and calculus.


Figure 38. Individual from Grave 25, left side of mandible with large caries.


Figure 40. Individual of Grave 12, right side of mandible with large abscess and calculus.

There were an additional three individuals from Ismenion Hill who exhibited some of the characteristics of leprosy, however, not strongly enough to confidently suggest that they actually had the disease. Skeleton 4, from Grave 19, exhibited periodontal disease throughout their
maxillae, with AMTL of $\mathrm{RPM}^{2}, \mathrm{RM}^{1}$ and LPM ${ }^{2}$. It cannot be suggested that this individual had leprosy as there was no dental calculus or wear indicative of infection. However, the skeletal remains indicated they suffered from the disease (Liston 2017). This discrepancy could be because the infection was not severe enough to impact the dentition. Further, an individual from the Parking Lot Grave exhibited periodontal disease, with RPM $^{1}$ and LM $^{1}$ lost antemortem and an abscess at the root of $\mathrm{RC}^{1}$. There were, however, few caries and little calculus, preventing a confident diagnosis of leprosy. Finally, Skeleton 2C ("Largest Male"), Grave 20, exhibited periodontal disease, with $\mathrm{RM}_{1}$ lost antemortem and small caries present on $\mathrm{RM}_{1}$ and $\mathrm{RM}_{2}$. While there was dental calculus present, it is minimal, only on the anterior teeth, and did not match the appearance typically seen with leprosy, suggesting they did not have the disease.

Thus, only four individuals at Ismenion Hill were suggested as having signs of leprosy based on the dental analysis. However, this number may not be an accurate reflection of the population as many of the traits indicative of leprosy can only be assessed on in situ dentition with surviving mandibles or maxillae, and the bulk of the Ismenion Hill collection did not have associated mandibles or maxillae. As well, the diagnostic characteristics that can be seen on loose teeth can be lost in the archaeological record or during storage. Caries weaken the tooth structure often leading to fractures or breakages, and calculus can be chipped away or altogether broken off during excavation, analysis and storage (Holland et al. 1997; Manifold 2012, 2013). Furthermore, as discussed, many of the features of leprosy are co-occurring, and so the presence of one trait resulting from something that is not leprosy, can create the characteristics indicative of leprosy causing misdiagnoses (Boldsen 2009; Guo et al. 2017; Ogden \& Lee 2008; Roberts \& Manchester 2005; Trautman 1984). Finally, it must be stressed that leprosy cannot be assessed solely from the dentition. An accurate representation of the disease must consider the bone
analysis, dental analysis, funerary and burial contexts, archaeological record and historical documents. This study does not have the space for such an examination, and therefore cannot confidently state whether leprosy was present or not, but can simply suggest four individuals exhibited features indicative of the disease. Ultimately, it cannot be determined from this research if Ismenion Hill was an early hospital, as the rate of leprosy is limited. As well, the prevalence of caries and LEH fall within expected ranges of Byzantine Greek sites, suggesting that there were no major health concerns at this time or specific to this population.

### 4.8. Limitations

One of the biggest limitations of this study was the data collection period. This project was originally not meant as a MA dissertation, but as a quick analysis of the dental collection of Ismenion Hill. The physical examination of the teeth was conducted in less than four days; the collection process was fast which could have created errors despite best efforts. This shortened period did not allow for dental measurements to be taken, and so any methods using dental metrics could not be employed. Additionally, age-at-death and wear assessments could not be conducted on site, with the teeth in hand, but rather had to be done later using only pictures of the teeth. Inevitably, determining age and wear from pictures is not ideal and can cause inaccurate assessments. Further, because of the nature of the teeth, with the majority being loose, features of dental analyses including AMTL, periodontal disease and abscesses, were not able to be assessed and therefore cannot be used as a means of understanding population health and demography. Nevertheless, this study was conducted at the highest quality possible given the circumstances.

## CHAPTER 5: CONCLUSION

This study achieved its goal of understanding demography, diet and health at the site of Ismenion Hill based on the dental remains. Analysis of the site demography included determining the minimum likely number of individuals present and age-at-death. Through pair matching methodology, it was seen that there were at least 210 individuals buried at Ismenion Hill. Undeveloped and developed teeth were assessed for age-at-death, indicating the site contained more Non-adults ( $\mathrm{N}=126 ; 60 \%$ ) than adults ( $\mathrm{N}=84 ; 40 \%$ ). Non-adults died most commonly in infancy ( $\mathrm{N}=94 ; 74.6 \%$ ) based on tooth development, while adults died more commonly as young adults based on dental wear. Consequently, the demography of Ismenion Hill consisted mainly of non-adults and young adults. Moreover, the prevalence of dental calculus at the site was relatively low ( $\mathrm{N}=128$ teeth; $6.8 \%$ ) compared to other contemporary collections, suggesting a higher reliance of plant material than animal protein. Dental caries were found on $5.7 \%$ of the teeth, roughly matching other Byzantine sites in Greece. The prevalence rate of caries falls within the expected ranges of both hunter-gatherer and agricultural practices, suggesting the population at Ismenion Hill had a mixed subsistence system. Thus, it is proposed that the diet of the site consisted mainly of harvested and gathered plants, with little domesticated meat. Furthermore, it was observed that 85 individuals (40.5\%) had LEH, which most commonly developed between the ages 2.0 and 4.99 years ( $\mathrm{N}=395$ LEH bands; 77.8\%), indicating a high stress period in childhood. When added to the high infant mortality rate, it becomes apparent that the ages between two and six years could be stressful. This period aligns with weaning children from breastmilk, which could lead to malnutrition, illness and even death. Therefore, it can be suggested that heathy children who survived the hardship of weaning could develop LEH
markers, while more frail infants died. Additionally, it was determined that four individuals at Ismenion Hill potentially suffered from leprosy. Considering its low prevalence from the dental evidence $(1.9 \%)$ as well as the low rate of calculus and dental pathologies, it cannot be suggested that site was the location of an early form of a hospital based on the dentition. Collectively, this study provided new and valuable information on the demography, diet and health of the population at Ismenion Hill.

Further research of Ismenion Hill should consider the bone and dental analysis together, alongside the burial, funerary and archaeological contexts to fully understand the nature of the site. Within the greater field of bioarchaeology, researchers should consider dentition a primary source of evidence that requires appropriate attention equal to bone analysis. Dental analyses are beneficial and can generate significant insight into a past population while preserving and caring for the finite bioarchaeological record.

## REFERENCES

Adams, B. J., \& Konigsberg, L. W. (2004). Estimation of the most likely number of individuals from commingled human skeletal remains. American Journal of Physical Anthropology, 125(2), 138-151.

Aelarakis, A. (1995). An anthology of Hellenes involved with the field of physical anthropology. International Journal of Anthropology, 10(2-3), 149-162.

Aghanashini, S., Puvvalla, B., Mundinamane, D. B., Apoorva, S. M., Bhat, D., \& Lalwani, M. (2016). A comprehensive review on dental calculus. Journal of Health and Science Research, 7(2), 42-50.

AlQahtani, S. J., Adserias, J., Nuzzolese, E., \& di Vella, G. (2017). The accuracy of the London Atlas of Human Tooth Development and Eruption in dental age estimations of Saudi, Spanish, and Italian children. Proceedings of the 69th Annual Scientific Meeting, G11, 874-874.

AlQahtani, S. J., Hector, M. P., \& Liversidge, H. M. (2010). Brief communication: The London atlas of human tooth development and eruption. American Journal of Physical Anthropology, 142(3), 481-490.

AlQahtani, S. J., Hector, M. P., \& Liversidge, H. M. (2014). Accuracy of dental age estimation charts: Schour and Massler, Ubelaker and the London Atlas. American Journal of Physical Anthropology, 154(1), 70-78.

Angel, J. L. (1943). Ancient Cephallenians. The population of a Mediterranean island. American Journal of Physical Anthropology, 1(3), 229-260.

Angel, J. L. (1944). A racial analysis of the ancient Greeks: An eassy on use of morphological types. American Journal of Physical Anthropology, 2(4), 329-376.

Angel, J. L. (1964). Osteoporosis: thalassemia?. American Journal of Physical Anthropology, 22(3), 369-373.

Angel, J. L. (1966). Porotic hyperostosis, anemias, malarias, and marshes in the prehistoric eastern Mediterranean. Science, 153(3737), 760-763.

Angel, J. L. (1971). The People (Vol. 2). Athens, GRC: ASCSA.
Angel, J. L. (1984). Health as a crucial factor in the changes from hunting to developed farming in the eastern Mediterranean. Paleopathology at the Origins of Agriculture, 51-74.

Apajalahti, S., Hölttä, P., Turtola, L., \& Pirinen, S. (2002). Prevalence of short-root anomaly in healthy young adults. Acta Odontologica Scandinavica, 60(1), 56-59.

Aravantinos, V. (2017). The sanctuaries of Herakles and Apollo Ismenios at Thebes: new evidence. Interpreting the Seventh Century BC: Tradition and Innovation. Oxford, UK: Archopress Publishing.

Armelagos, G. J. \& Cohen, M. N. (1984). Paleopathology at the origins of agriculture. Orlando, FL: Academic Press.

Arnon, S. S., Midura, T. F., Damus, K., Thompson, B., Wood, R. M., \& Chin, J. (1979). Honey and other environmental risk factors for infant botulism. The Journal of Pediatrics, 94(2), 331336.

Aubert, J. J. (1989). Threatened Wombs: Aspects of Ancient Uterine Magic. Greek, Roman and Byzantine Studies, 30, 421-429.

Aufderheide, A. C., \& Rodríguez-Martín, C. (1998). The Cambridge Encyclopedia of Human Paleopathology. Cambridge, UK: Cambridge University Press.

Bailey, S. E. (2006). The evolution of non-metric dental variation in Europe. Mitteilungen der Gesellschaft für Urgeschichte, 15, 9-30.

Bang, G., \& Ramm, E. (1970). Determination of age in humans from root dentin transparency. Acta Odontologica Scandinavica, 28(1), 3-35.

Barnes, E., \& Ortner, D. J. (1997). Multifocal eosinophilic granuloma with a possible trepanation in a fourteenth century Greek young skeleton. International Journal of Osteoarchaeology, 7(5), 542-547.

Barreto, J. G., Frade, M. A. C., Bernardes Filho, F., da Silva, M. B., Spencer, J. S., \& Salgado, C. G. (2017). Leprosy in children. Current Infectious Disease Reports, 19, 1-8.

Bass, W. M. (1978) Review of: Biocultural Adaptation in Prehistoric America. American Anthropologist, 80, 986-988.

Bengston, R. G. (1935). A study of the time of eruption and root development of the permanent teeth between six and thirteen years. Northwest University Bulletin, 35, 3-9.

Bintliff, J. L. (1996). The Archaeological Survey of the Valley of the Muses and Its Significance for Boeotian History. In (ed) A. Hurst and A. Schachter. La Montagne des Muses. pp. 193-210.

Bintliff, J. (2006). Multi-ethnicity and Population Movement in Ancient Greece: Alternatives to a world of 'Red-Figure' People. Troianer sind wir geweses- Migrationen in der antiken Welt. Stuttgarter Kolloquium zur Historischen Geographie des Altertums, 8(2002), 108-114.

Blakely, R.L. (1977). Southern Anthropological Proceedings. Athens, GA: University Georgia Press.

Blondiaux, J., Naji, S., Bocquet-Appel, J. P., Colard, T., de Broucker, A., \& de Seréville-Niel, C. (2016). The leprosarium of Saint-Thomas d'Aizier: The cementochronological proof of the medieval decline of Hansen disease in Europe?. International Journal of Paleopathology, 15, 140-151.

Boldsen, J. L. (2005). Leprosy and mortality in the Medieval Danish village of Tirup. American Journal of Physical Anthropology, 126(2), 159-168.

Boldsen, J. L. (2009). Leprosy in Medieval Denmark-Osteological and epidemiological analyses. Anthropologischer Anzeiger, 407-425.

Bourbou, C. (2010). Health and disease in Byzantine Crete (7th-12th centuries AD) (Vol. 1). Farnham, UK: Ashgate Publishing, Ltd.

Bourbou, C., Fuller, B. T., Garvie-Lok, S. J., \& Richards, M. P. (2013). Nursing mothers and feeding bottles: reconstructing breastfeeding and weaning patterns in Greek Byzantine populations ( 6 th -15 th centuries AD) using carbon and nitrogen stable isotope ratios. Journal of Archaeological Science, 40(11), 3903-3913.

Bourbou, C., \& Richards, M. P. (2007). The Middle Byzantine menu: palaeodietary information from isotopic analysis of humans and fauna from Kastella, Crete. International Journal of Osteoarchaeology, 17(1), 63-72.

Bourbou, C., \& Tsilipakou, A. (2009). Investigating the human past of Greece during the 6th-7th centuries AD. Hesperia, 43, 121-136.

Breitinger, E. (1939). Die Skelette aus den submykenischen Gräbern. In (eds.) W. Kraiker \& K. Kübler. Kerameikos. Berlin, GER: Walter De Gruyter. pp. 223-255.

Breitinger, E. (1980). Skelette spätmykenischer Gräber in der Unterburg von Tiryns. Tiryns, Forschungen und Berichte, 9, 181-190.

Brenner, E., \& Touati, F. O. (2021). Leprosy and identity in the Middle Ages: from England to the Mediterranean. Manchester, UK: Manchester University Press.

Brothwell, D. R. (1981). Digging up bones: the excavation, treatment, and study of human skeletal remains. Ithaca, NY: Cornell University Press.

Brothwell, D. (1989). The relationship of tooth wear to aging. In (ed.) M.Y. Iscan \& M. Steyn. Age markers in the human skeleton. Springfield, IL: Charles C. Thomas. Pp. 303-316.

Bruce, F. F. (2004). The spreading flame: the rise and progress of Christianity from its first beginnings to the conversion of the English. Eugene, OR: Wipf and Stock Publishers.

Budd, P., Montgomery, J., Barreiro, B., \& Thomas, R. G. (2000). Differential diagenesis of strontium in archaeological human dental tissues. Applied Geochemistry, 15(5), 687-694.

Buikstra, J., \& Lagia, A. (2009). Bioarchaeological approaches to Aegean archaeology. Hesperia, 43, 7-29.

Buikstra, J. E. \& Ubelaker D.H. (1994). Standards for data collection from human skeletal remains. Arkansas Archaeological Survey. Fayetteville, AR: Research Series.

Burnett, S. E., \& Irish, J. D. (2017). A World View of Bioculturally Modified Teeth. Florida, US: University Press of Florida.

Callahan, D. (1973). The WHO definition of 'health'. Hastings Center Studies, 1(3), 77-87.
Carbonell, V. M. (1963). Variations in the frequency of shovel-shaped incisors in different populations. In D.R. Brothwell (ed). Dental Anthropology. Oxford, UK: Pergamon. pp. 211-234.

Carucci, M. (2010). The Statue of Heracles Promakhos at Thebes: A Historical Reconstruction. Arctos-Acta Philologica Fennica, 44, 67-80.

Chase, P. G., \& Hagaman, R. M. (1987). Minimum number of individuals and its alternatives: a probability theory perspective. OSSA, 13, 75-86.

Chanarin, I. (1990). The Megaloblastic Anemias. Oxford, UK: Blackwell Scientific Publishers.
Charles, R. P. (1958). Étude anthropologique des nécropoles d'Argos. Contribution à l'étude des populations de la Grèce antique. Bulletin de correspondance hellénique, 82(1), 268-313.

Cobb, W. M. (1932). Human Archives. Ph.D. dissertation, Department of Anatomy and Physical Anthropology, Western Reserve University.

Cortela, D. C. B., de Souza Junior, A. L., Virmond, M. D. C. L., \& Ignotti, E. (2015). Inflammatory mediators of leprosy reactional episodes and dental infections: a systematic review. Mediators of Inflammation, 2015, 1-15.

Daly, K. N., \& Rengel, M. (2009). Greek and Roman mythology, A to Z. New York City, NY: Infobase Publishing.

Dagron, G. (1978). Vita of Saint Thekla: Vie et miracles de sainte Thècle. Brussels, BE: Société des Bollandistes.

Daly, K. \& Larson, S. (2017, May 10). Excavations on the Ismenion Hill in Thebes, 2011-2016. [Video]. American School of Classical Studies at Athens, Athens, Greece. https://vimeo.com/216620719

Dawkins, W. B. (1901). Skulls from cave burials at Zakro. Annual of the British School at Athens, 7, 150-155.

Demirjian, A. (1986). Dentition. In (eds.) F. Falkner \& J.M. Tanner. Postnatal growth neurobiology. New York, NY: Plenum Press. Pp. 269-298.

Delehaye, H. (1923). Vita of Saint Alypios: Les saints stylites. Brussels, BELG: Société des Bollandistes.

DeWitte, S. N., \& Stojanowski, C. M. (2015). The osteological paradox 20 years later: past perspectives, future directions. Journal of Archaeological Research, 23, 397-450.
de Dios Teruel, J., Alcolea, A., Hernández, A., \& Ruiz, A. J. O. (2015). Comparison of chemical composition of enamel and dentine in human, bovine, porcine and ovine teeth. Archives of Oral Biology, 60(5), 768-775.

Dickie, M. W. (1995). The Fathers of the Church and the Evil Eye. In H. Maguire (ed). Byzantine Magic, Washington DC: Dumbarton Oaks Research Library and Collection. pp. 9-34.

Dobney, K., \& Brothwell, D. (1987). A method for evaluating the amount of dental calculus on teeth from archaeological sites. Journal of Archaeological Science, 14(4), 343-351.

Dotsika, E., Michael, D. E., Iliadis, E., Karalis, P., \& Diamantopoulos, G. (2018). Isotopic reconstruction of diet in Medieval Thebes (Greece). Journal of Archaeological Science, 22, 482491.

Dreier, F. G. (1994). Age at death estimates for the protohistoric Arikara using molar attrition rates: a new quantification method. International Journal of Osteoarchaeology, 4(2), 137-147.

Duckworth, W. L. H. (1903). Excavations at Palaikastro, Human Remains at Hagios Nikolaos. Annual of the British School at Athens, 9, 344-350.

Dufour, D. L. (2006). Biocultural approaches in human biology. American Journal of Human Biology, 18(1), 1-9.

Dyson, S. L. (1993). From New to New Age archaeology: archaeological theory and Classical Archaeology-a 1990s perspective. American Journal of Archaeology, 97(2), 195-206.

Epker, B. N., \& Via Jr, W. F. (1969). Oral and perioral manifestations of leprosy: Report of a case. Oral Surgery, Oral Medicine, Oral Pathology, 28(3), 342-347.

Esan, T. A., \& Schepartz, L. A. (2018). The WITS Atlas: A Black Southern African dental atlas for permanent tooth formation and emergence. American Journal of Physical Anthropology, 166(1), 208-218.

Estalrrich, A., Alarcón, J. A., \& Rosas, A. (2017). Evidence of toothpick groove formation in Neandertal anterior and posterior teeth. American Journal of Physical Anthropology, 162(4), 747-756.

Fairgrieve, S., \& Molto, J. E. (2000). Cribra Orbitalia in Two Temporally Disjunct Population Samples from the Dakhleh Oasis, Egypt. American Journal of Physical Anthropology 111, 319331.

Fogel, M. L., Tuross, N., \& Owsley, D. W. (1989). Nitrogen isotope tracers of human lactation in modern and archaeological populations. Annual Report of the Director, Geophysical Laboratory, Carnegie Institution of Washington, 88, 111-117.

Forshaw, R. (2015). Unlocking the past: the role of dental analysis in archaeology. Dental History, 60(2), 51-62.

Fox, S. C., Moutafi, I., Prevedorou, E., Pilides, D., \& Perry, M. A. (2012). The burial customs of early Christian Cyprus: a bioarchaeological approach. In (ed). M.A. Perry, Bioarchaeology and behavior. The people of the ancient near east, ed. Megan A. Perry, 60-79.

Fulghum-Heintz, M. (2003). Magic, Medicine and Prayer. In I. Kalavrezou (ed). Byzantine Women and Their World. Cambridge, UK: Harvard University Art Museums. pp. 275-81.

Fuller, B. T., Fuller, J. L., Harris, D. A., \& Hedges, R. E. (2006). Detection of breastfeeding and weaning in modern human infants with carbon and nitrogen stable isotope ratios. American Journal of Physical Anthropology, 129(2), 279-293.

Fürst, C.M. (1930). Zur Anthropologied er Prähistorischen Griechenin Argolis. Lunds Universitets Årsskrift, 2(6), 1-8.

Garn, S. M., Lewis, A. B., \& Polacheck, D. L. (1960). Interrelationships within the dentition. Journal of Dental Research, 39(5), 1049-1055.

Garrington, G. E., \& Crump, M. C. (1968). Pulp death in a patient with lepromatous leprosy. Oral Surgery, Oral Medicine, Oral Pathology, 25(3), 427-434.

Ghazi, A. M. (1994). Lead in archaeological samples: an isotopic study by ICP-MS. Applied Geochemistry, 9(6), 627-636.

Goodman, A. H., \& Rose, J. C. (1990). Assessment of systemic physiological perturbations from dental enamel hypoplasias and associated histological structures. American Journal of Physical Anthropology, 33(11), 59-110.

Goenka, P., Dutta, S., \& Marwah, N. (2011). Biological approach for management of anterior tooth trauma: triple case report. Journal of Indian Society of Pedodontics and Preventive Dentistry, 29(2), 180-186.

Goenka, P., Marwah, N., \& Dutta, S. (2010). Biological approach for management of anterior tooth trauma: Triple case report. Journal of Indian Society of Pedodontics and Preventive Dentistry, 28(3), 223-229.

González, E. L., Pérez, B. P., Sánchez, J. S., \& Acinas, M. M. R. (2010). Dental aesthetics as an expression of culture and ritual. British Dental Journal, 208(2), 77-80.

Grant, M. (1997). Dieting for an emperor: a translation of books 1 and 4 of Oribasius' Medical compilations with an introduction and commentary (Vol. 15). Boston, MA: Brill.

Greenfield, R. P. (1988). Traditions of belief in late Byzantine demonology. Amsterdam, NL: Hakkert.

Guo, Y., Tian, L. L., Zhang, F. Y., Bu, Y. H., Feng, Y. Z., \& Zhou, H. D. (2017). Dental caries and risk indicators for patients with leprosy in China. International Dental Journal, 67(1), 59-64.

Gustafston, G. (1950). Age determination on teeth. Journal of the American Dental Association, 41(1), 45-54.

Hassett BR. (2011). Changing world, changing lives: child health and enamel hypoplasia in post medieval London. Ph.D. Dissertation. London, UK: University College London.

Helm, S., \& Prydsø, U. (1979). Assessment of age-at-death from mandibular molar attrition in medieval Danes. European Journal of Oral Sciences, 87(2), 79-90.

Hillson, S. (1996). Dental Anthropology. Cambridge, UK: Cambridge University Press.
Hillson, S. (2001). Recording dental caries in archaeological human remains. International Journal of Osteoarchaeology, 11(4), 249-289.

Hoke, M. K., \& Schell, L. M. (2020). Doing biocultural anthropology: Continuity and change. American Journal of Human Biology, 32(4), e23471.

Iezzi, C. (2009). Regional differences in the health status of the Mycenaean women of East Lokris. Hesperia Supplements, 43, 175-192.

Indriati, E., \& Buikstra, J. E. (2001). Coca chewing in prehistoric coastal Peru: dental evidence. American Journal of Physical Anthropology, 114(3), 242-257.

Inskip, S., Zachary, L., Serrano Ruber, M., \& Hoogland, M. (2023). Pipe smoking and oral health in males from The Netherlands during the 18th-19th century. Post-Medieval Archaeology, 57(1), 94-107.

Kaplan, M. (1992). Les hommes et la terre à Byzance du VIe au XIe siècle: propriété et exploitation $d u$ sol. Paris, FR: Publications de la Sorbonne.

Kamp, K. A. (2001). Where have all the children gone?: the archaeology of childhood. Journal of Archaeological Method and theory, 8, 1-34.

Katzenberg, M. A., Herring, D. A., \& Saunders, S. R. (1996). Weaning and infant mortality: evaluating the skeletal evidence. American Journal of Physical Anthropology, 101(S23), 177199.

Katzenberg, M. A., Saunders, S. R., \& Fitzgerald, W. R. (1993). Age differences in stable carbon and nitrogen isotope ratios in a population of prehistoric maize horticulturists. American Journal of Physical Anthropology, 90(3), 267-281.

Kendall, C., Eriksen, A. M. H., Kontopoulos, I., Collins, M. J., \& Turner-Walker, G. (2018). Diagenesis of archaeological bone and tooth. Palaeogeography, Palaeoclimatology, Palaeoecology, 491, 21-37.

Kharat, D. U., Saini, T. S., \& Mokeem, S. (1990). Shovel-shaped incisors and associated invagination in some Asian and African populations. Journal of Dentistry, 18(4), 216-220.

Khudaverdyan, A. Y., Manukyan, S. V., Vardanyan, B. V., \& Shakhmuradyan, M. S. (2019). Resorption of the alveolar region in Facies leprosy: a paleoanthropological and paleopathological analysis (Aragatsavan, Armenia). Bulletin of the International Association for Paleodontology, 13(1), 1-17.

Khudaverdyan, A. Y., Yengibaryan, A. A., Aleksanyan, T. A., Mirijanyan, D. G., Hovhanesyan, A. A., \& Vardanyan, V. R. (2021). The probable evidence of leprosy in a male individual unearthed in medieval Armenia (Angeghakot). Bulletin of the International Association for Paleodontology, 15(1), 31-44.

Kieser, J. A. (1984). An analysis of the Carabelli trait in the mixed deciduous and permanent human dentition. Archives of Oral biology, 29(6), 403-406.

Kim, Y. K., Kho, H. S., \& Lee, K. H. (2000). Age estimation by occlusal tooth wear. Journal of Forensic Sciences, 45(2), 303-309.

King, T., Humphrey, L. T., \& Hillson, S. (2005). Linear enamel hypoplasias as indicators of systemic physiological stress: Evidence from two known age-at-death and sex populations from postmedieval London. American Journal of Physical Anthropology, 128(3), 547-559.

Koukoules, P. (1951). Byzantine life and culture, Volume D. Athens, GR: Papazisi Publications.

Koumaris, J. (1939). Rasse und Gesundheit. Zielund Weg, 9, 386-388.

Koumaris, J. (1961). Le caractère autochtone du peuple Grec. Cahiers Ligures de Pré histoire et d'Archéologie, 10, 212-219.

Kwok, C. S. (2015). Moving beyond childhood: reconstructing dietary life histories of bronze age and byzantine Greeks using stable isotope analysis of dental and skeletal remains. Doctoral dissertation, Calgary, CA: University of Calgary.

Kyriakis, K. P. (2010). Active leprosy in Greece: a 20-year survey 1988-2007. Scandinavian Journal of Infectious Diseases, 42(8), 594-597.

Jackson, R. (1989). Doctors and Diseases in the Roman Empire. London, UK: Norman.
Jacoby, D. (2004). Silk economics and cross-cultural artistic interaction: Byzantium, the Muslim world, and the Christian west. Dumbarton Oaks Papers, 58, 197-240.

Jacoby, D. (2009). The Jewish Communities of the Byzantine World from the Tenth to the MidFifteenth Century: Some Aspects of their Evolution. Jewish Reception of Greek Bible Versions: Studies in Their Use in Late Antiquity and the Middle Ages, 157-181.

Laiou, A. E. (1977). Peasant Society in the Late Byzantine Empire: A Social and Demographic Study. Princeton, NJ: Princeton University Press.

Laiou, A. E. (1981). The Role of Women in Byzantine Society. Jahrbuch der Österreichischen Byzantinistik, 31, 233-60.

Laiou. A.E. (1985). Observations on the Life and Ideology of Byzantine Women. Byzantinische Forschungen, 9, 59-102.

Lagia, A., Eliopoulos, C., \& Manolis, S. (2007). Thalassemia: macroscopic and radiological study of a case. International Journal of Osteoarchaeology, 17(3), 269-285.

Lamendin, H., Humbert, J. F., Baccino, E., Zerilli, A., Tavernier, J. C., \& Nossintchouk, R. M. (1992). A simple technique for age estimation in adult corpses: the two criteria dental method. Journal of Forensic Sciences, 37(5), 1373-1379.

Larsen, C. S. (1997). Bioarchaeology, interpreting behavior from the human skeleton. New York, NY: Cambridge University Press.

Larsen, C. S. (2015). Bioarchaeology: Interpreting Behavior from the Human Skeleton. Cambridge, UK: Cambridge University Press.

Larson, S. (2017). Meddling with Myth in Thebes. Myths on the Map. In (ed). G. Hawes. The Storied Landscapes of Ancient Greece. Oxford, UK: Oxford University Press. Pp. 106-121.

Lascaratos, J., \& Poulakou-Rebelakou, E. (2003). Oribasius (fourth century) and early Byzantine perinatal nutrition. Journal of Pediatric Gastroenterology and Nutrition, 36(2), 186-189.

Laurent, V. (1956). Vita of Saint Peter of Atroa: La vie merveilleuse de saint Pierre d'Atroa (+837). Brussels, BE: Société des Bollandistes.

Lavigne, S. E., \& Molto, J. E. (1995). System of measurement of the severity of periodontal disease in past populations. International Journal of Osteoarchaeology, 5(3), 265-273.

Li, C., \& Ji, G. (1995). Age estimation from the permanent molar in northeast China by the method of average stage of attrition. Forensic Science International, 75(2-3), 189-196.

Lieverse, A. R. (1999). Diet and the aetiology of dental calculus. International Journal of Osteoarchaeology, 9(4), 219-232.

Liston, M. (2017, April 27). Plagues, pestilence, and other dreadful diseases in Byzantine Thebes. American School of Classical Studies at Athens, Athens, Greece. https://www.ascsa.edu.gr/news/newsDetails/videocast-plagues-and-pestilence-in-thebes

Lovejoy, C. O. (1985). Dental wear in the Libben population: its functional pattern and role in the determination of adult skeletal age at death. American Journal of Physical Anthropology, 68(1), 47-56.

Lukacs, J. R. (1996). Sex differences in dental caries rates with the origin of agriculture in South Asia. Current Anthropology, 37(1), 147-153.

Lukacs, J. R., \& Pal, J. N. (2013). Dental morphology of early Holocene foragers of North India: non-metric trait frequencies and biological affinities. Homo, 64(6), 411-436.

Lukacs, J. R., \& Pastor, R. F. (1988). Activity-induced patterns of dental abrasion in prehistoric Pakistan: evidence from Mehrgarh and Harappa. American Journal of Physical Anthropology, 76(3), 377-398.

MacKenzie, L., Speller, C. F., Holst, M., Keefe, K., \& Radini, A. (2023). Dental calculus in the industrial age: human dental calculus in the Post-Medieval period, a case study from industrial Manchester. Quaternary International, 653, 114-126.

Magilton, J. (2010). Medieval and early modern cemeteries in England: an introduction. In J. Magilton, F. Lee, \& A. Boylston (eds). Lepers Outside the Gate: Excavations at the Cemetery of the Hospital of St. James and St. Mary Magdalene, Chichester, 1986-87 and 1993. Bootham, UK: Council for British Archaeology. pp. 27-47.

Magilton, J., Lee, F., \& Boylston, A. (2010). Lepers Outside the Gate: Excavations at the Cemetery of the Hospital of St. James and St. Mary Magdalene, Chichester, 1986-87 and 1993. Bootham, UK: Council for British Archaeology.

Makrides, V. (2009). Hellenic Temples and Christian Churches: A Concise History of the Religious Cultures of Greece from Antiquity to the Present. Manhattan, NY: NYU Press.

Manchester, K., \& Roberts, C. (1989). The palaeopathology of leprosy in Britain: a review. World Archaeology, 21(2), 265-272.

Manifold, B. M. (2012). Intrinsic and extrinsic factors involved in the preservation of non-adult skeletal remains in archaeology and forensic science. Bulletin of the International Association for Paleodontology, 6(2), 51-69.

Manifold, B. M. (2013). Differential preservation of children's bones and teeth recovered from early medieval cemeteries: possible influences for the forensic recovery of non-adult skeletal remains. Anthropological Review, 76(1), 23-49.

Marshall, F., \& Pilgram, T. (1993). NISP vs. MNI in quantification of body-part representation. American Antiquity, 58(2), 261-269.

Martin, D. L., Harrod, R. P., \& Pérez, V. R. (2013). Bioarchaeology. An Integrated Approach to Working with Human Remains. New York, NY: Springer.

Matos, V. M., \& Santos, A. L. (2013). Leprogenic odontodysplasia: new evidence from the St. Jørgen's medieval leprosarium cemetery (Odense, Denmark). Anthropological Science, 121(1), 43-47.

Matsumura, H., \& Oxenham, M. F. (2014). Demographic transitions and migration in prehistoric East/Southeast Asia through the lens of nonmetric dental traits. American Journal of Physical Anthropology, 155(1), 45-65.

Mays, S. (2021). The archaeology of human bones. Abingdon, UK: Routledge.
Meyer M. (2005). On the Hypothetical Model of Childbearing in the Octateuchs. Bulletin of the Christian Archaeological Society, 26, 311-318.

Michael, D. E., Iliadis, E., \& Manolis, S. K. (2017). Using dental and activity indicators in order to explore possible sex differences in an adult rural medieval population from Thebes (Greece). Anthropological Review, 80(4), 427-447.

Miles, G. C. (1964). Byzantium and the Arabs: relations in Crete and the Aegean area. Dumbarton Oaks Papers, 18, 1-32.

Miller, T. S. (1984). Byzantine hospitals. Dumbarton Oaks Papers, 38, 53-63.
Miller, T. S. (1985). The birth of the hospital in the Byzantine Empire. Baltimore, MD: Johns Hopkins University Press.

Miller, T. S., \& Nesbitt, J. W. (2023). Walking corpses: Leprosy in Byzantium and the medieval West. Ithaca, NY: Cornell University Press.

Molnar, P. (2008). Dental wear and oral pathology: possible evidence and consequences of habitual use of teeth in a Swedish Neolithic sample. American Journal of Physical Anthropology. 136(4), 423-431.

Molnar, S. (1971). Human tooth wear, tooth function and cultural variability. American Journal of Physical Anthropology, 34(2), 175-189.

Molto, J. D. (1985). Simultaneous occurrence of discontinuous cranial traits: some theoretical and practical consideration for population studies. Canadian Journal of Anthropology, 4, 57-65.

Monaco, M., Riccomi, G., Minozzi, S., Campana, S., \& Giuffra, V. (2022). Exploring activityinduced dental modifications in medieval Pieve di Pava (central Italy, 10th-12th centuries AD). Archives of Oral Biology, 140, 1-11.

Moorrees, C. F. (1957). The Aleut dentition: a correlative study of dental characteristics in an Eskimoid people. Cambridge, MA: Harvard University Press.

Moorrees, C. F., Fanning, E. A., \& Hunt Jr, E. E. (1963). Age variation of formation stages for ten permanent teeth. Journal of Dental Research, 42(6), 1490-1502.

Müller, W., Nava, A., Evans, D., Rossi, P. F., Alt, K. W., \& Bondioli, L. (2019). Enamel mineralization and compositional time-resolution in human teeth evaluated via histologicallydefined LA-ICPMS profiles. Geochimica et Cosmochimica Acta, 255, 105-126.

Murphy, T. (1959). Gradients of dentine exposure in human molar tooth attrition. American Journal of Physical Anthropology, 17(3), 179-186.

Musgrave, J. H. (1976). The human remains from an early Christian Osteotheke at Knossos. Appendix A: The human remains. Annual of the British School at Athens, 71, 40-46.

Nafplioti, A. (2009). Mycenae revisited part 2: Exploring the local vs. non-local origin of the individuals from Grave Circle A at Mycenae: Evidence from strontium isotope ratio ( $87 \mathrm{Sr} / 86 \mathrm{Sr}$ ) analysis. Annual of the British School at Athens, 104, 279-291.

Nah, S. H., Marks, S. C., \& Subramaniam, K. (1985). Relationship between the loss of maxillary anterior alveolar bone and the duration of untreated lepromatous leprosy in Malaysia. Leprosy Review, 56(1), 51-55.

Nerlich, A. G., \& Zink, A. (2003). Anthropological and palaeopathological analysis of human remains in the Theban necropolis. In (eds.) N. Strudwick \& J.H. Taylor. The Theban necropolis : past, present, and future. London, UK: British Museum Press. Pp. 102-113.

Nevas, M., Lindström, M., Hautamäki, K., Puoskari, S., \& Korkeala, H. (2005). Prevalence and diversity of Clostridium botulinum types A, B, E and F in honey produced in the Nordic countries. International Journal of Food Microbiology, 105(2), 145-151.

Ogden, A. (2007). Advances in the palaeopathology of teeth and jaws. Advances in Human Palaeopathology, 1, 283-307.

Ortner, D. J. (1991). Theoretical and methodological issues in paleopathology. In (eds.) D.J. Ortner, and A.C. Aufderheide, Human Paleopathology: Current Syntheses and Future Options. Washington, D.C.: Smithsonian Institution Press. pp. 5-11.

Ogden, A., \& Lee, F. (2010). Dental health and disease. In J. Magilton, F. Lee, \& A. Boylston (eds). Lepers Outside the Gate: Excavations at the Cemetery of the Hospital of St. James and St. Mary Magdalene, Chichester, 1986-87 and 1993. Bootham, UK: Council for British Archaeology. pp. 188-197.

Orme, N. (2001). Medieval Children. London, UK: Yale University Press.
Ortner, D. J. (2003). Identification of Pathological Conditions in Human Skeletal Remains. San Diego, CA: Academic Press.

Papadopoulou, S., \& Buckberry, J. (2019). The relationship between Vitamin D deficiency and leprosy in two English medieval populations. Assemblage, 17, 11-26.

Papageorgopoulou, C., \& Xirotiris, N. I. (2009). Anthropological research on a Byzantine population from Korytiani, west Greece. Hesperia, 43, 193-221.

Parras, Z. (2004). The biological affinities of the Eastern Mediterranean in the Chalcolithic and Bronze Age: a regional dental non-metric approach. Ph.D. Dissertation. Sheffield, UK: University of Sheffield.

Paschalides, S. (1996). Vita of Theodora of Thessalonike. In (ed) A.M. Talbot. Holy Women of Byzantium: Ten Saints' Lives in Translation. Washington DC: Dumbarton Oaks Research Library and Collection. pp. 159-237.

Patlagean, E. (1973). L’enfant et son avenir dans la famille byzantine (IVe-XIIe siècles). Annales de Démographie Historique, Enfant et Société, 85-93.

Patlagean, E. (1977). Pauvreté économique et pauvreté sociale à Byzance, 4e-7e siècles. Paris, FR: Hay House Publishing.

Pavlović, S., Pereira, C. P., \& de Sousa Santos, R. F. V. (2017). Age estimation in Portuguese population: The application of the London atlas of tooth development and eruption. Forensic Science International, 272, 97-103.

Plug, C., \& Plug, I. (1990). MNI counts as estimates of species abundance. The South African Archaeological Bulletin, 53-57.

Pitsios, T. K. (1977). Anthropologische Untersuchung der Bevölkerung auf dem Peloponnes. Ph.D dissertation. Verlag nicht ermittelbar.

Poulianos, A. (1968). The origins of the Greeks. PhD dissertation, Moscow Institute of Anthropology.

Poulianos, A. N. (1981). Pre-sapiens man in Greece. Current Anthropology, 22(3), 287-288.

Powell, M. L. (1985). The analysis of dental wear and caries for dietary reconstruction. The Analysis of Prehistoric Diets, 1, 307-338.

Power, R. C., Salazar-García, D. C., Rubini, M., Darlas, A., Harvati, K., Walker, M., Hublin, J., \& Henry, A. G. (2018). Dental calculus indicates widespread plant use within the stable Neanderthal dietary niche. Journal of Human Evolution, 119, 27-41.

Prince, D. A., Kimmerle, E. H., \& Konigsberg, L. W. (2008). A Bayesian approach to estimate skeletal age-at-death utilizing dental wear. Journal of Forensic Sciences, 53(3), 588-593.

Prowse, T. L., \& Lovell, N. C. (1995). Biological continuity between the A-and C-groups in lower Nubia: Evidence from cranial non-metric traits. International Journal of Osteoarchaeology, 5(2), 103-114.

Radini, A., Nikita, E., Buckley, S., Copeland, L., \& Hardy, K. (2017). Beyond food: The multiple pathways for inclusion of materials into ancient dental calculus. American Journal of Physical Anthropology, 162, 71-83.

Raja, S. J., Raja, J. J., Vijayashree, R., Priya, B. M., Anusuya, G. S., \& Ravishankar, P. (2016). Evaluation of oral and periodontal status of leprosy patients in Dindigul district. Journal of Pharmacy \& Bioallied Sciences, 8(1), S119-S121.

Reid, D. J., \& Dean, M. C. (2006). Variation in modern human enamel formation times. Journal of Human Evolution, 50(3), 329-346.

Rife, J. L. (2012). The Roman and Byzantine graves and human remains. ASCSA Publication, 9, 1-11.

Ritzman, T. B., Baker, B. J., \& Schwartz, G. T. (2008). A fine line: a comparison of methods for estimating ages of linear enamel hypoplasia formation. American Journal of Physical Anthropology, 135(3), 348-361.

Roberts, C. A., \& Manchester, K. (2005). The Archaeology of Disease. Stroud, UK: Sutton Publishing.

Rodrigues, A. C., Silva, A. M., Matias, A., \& Santos, A. L. (2021). Atypical dental wear patterns in individuals exhumed from a medieval Islamic necropolis of Santarém (Portugal).
Anthropological Science, 129(2), 187-196.
Roffey, S., \& Tucker, K. (2012). A contextual study of the medieval hospital and cemetery of St Mary Magdalen, Winchester, England. International Journal of Paleopathology, 2(4), 170-180.

Rose, J.C., Marks, M.K, and Tieszen, L.L. (1991). Bioarchaeology and Subsistence in Central and Lower Portions of the Mississippi Valley. In (eds.) M.L. Powell, P.S. Bridges, \& A.M.W. Mires. What mean these bones?: studies in southeastern bioarchaeology. Tuscaloosa, AL: University of Alabama Press.

Russell, J. (1995). The Archaeological Context of Magic in the Early Byzantine Period. In H. Maguire (ed). Byzantine Magic. Washington, DC: Dumbarton Oaks Research Library and Collection. pp. 35-50.

Santacroce, L., Del Prete, R., Charitos, I. A., \& Bottalico, L. (2021). Mycobacterium leprae: A historical study on the origins of leprosy and its social stigma. Le Infezioni in Medicina, 29(4), 623.

Schollmeyer, K. G., \& Turner, C. G. (2004). Dental caries, prehistoric diet, and the pithouse-topueblo transition in southwestern Colorado. American Antiquity, 69(3), 569-582.

Schour, I., \& Massler, M. (1941). Development of human dentition chart. Chicago, IL: American Dental Association.

Scott, E. C. (1979). Dental wear scoring technique. American Journal of Physical Anthropology, 51(2), 213-217.

Scott, G. R., Pilloud, M. A., Navega, D., d'Oliveira, J., Cunha, E., \& Irish, J. D. (2018). rASUDAS: A new web-based application for estimating ancestry from tooth morphology. Forensic Anthropology, 1(1), 18-31. https://osteomics.com/rASUDAS/

Scott, G. R., \& Turner, C. G. (1988). Dental anthropology. Annual review of Anthropology, 17(1), 99-126.

Scott, G. R., \& Turner, C. G. (2008). History of dental anthropology. Cambridge Studies in Biological and Evolutionary Anthropology, 53, 10-34.

Shapiro, R. L., Hatheway, C., \& Swerdlow, D. L. (1998). Botulism in the United States: a clinical and epidemiologic review. Annals of Internal Medicine, 129(3), 221-228.

Silvester, C. M. (2021). Feeding the sick: An insight into dietary composition at a Medieval leper hospital using dental wear pattern analysis. Journal of Archaeological Science, 38, 1-8.

Singh, M., Sawhney, H., Mishra, R., \& Kumar, J. (2022). An overview of leprosy with its oral manifestations: A comprehensive review. SRM Journal of Research in Dental Sciences, 13(4), 185-189.

Smith, B. H. (1984). Patterns of molar wear in hunter-gatherers and agriculturalists. American Journal of Physical Anthropology, 63(1), 39-56.

Smith, B. H. (1991). Standards of human tooth formation and dental age assessment. In (eds.) M.A. Kelley \& C.S. Larsen. Advances in Dental Anthropology. New York, NY: Wiley-Liss. Pp. 143-168.

Smith-Guzmán, N. E., Rivera-Sandoval, J., Knipper, C., \& Arias, G. A. S. (2020). Intentional dental modification in Panamá: New support for a late introduction of African origin. Journal of Anthropological Archaeology, 60, 1-14.

Snodgrass, A. M. (1985). The new archaeology and the classical archaeologist. American Journal of Archaeology, 89(1), 31-37.

Stephanos, C. (1884). La Grèce au point de vue naturel, ethnologique, anthropologique, démographique et médical. Paris, FR: Masson.

Symeonoglou, S. (2014). The topography of Thebes from the Bronze Age to modern times (Vol. 415). Princeton, NJ: Princeton University Press.

Talbot, M. (1997). Women. In G. Cavallo (ed). The Byzantines. Chicago, IL: University of Chicago Press. pp. 117-43.

Tayles, N., Domett, K., \& Halcrow, S. (2009). Can dental caries be interpreted as evidence of farming? The Asian experience. Comparative Dental Morphology, 13, 162-166.

Tejada, J. V. (2015). Hegemony and political instability in the Black Sea and Hellespont after the Theban expedition to Byzantium in 364 BC. In G. R. Tsetskhladze, A. Avram, \& J. Hargrave (eds). The Danubian Lands Between the Black, Aegean and Adriatic Seas (7th Century BC-10th Century AD). pp. 53-58.

Temkin, O. (1991). Soranus's Gynecology. Baltimore, MD: The Johns Hopkins University Press.
Trautman, J. R. (1984). A brief history of Hansen's disease. Bulletin of the New York Academy of Medicine, 60(7), 689.

Tritsaroli, P. (2006). Pratiques funéraires en Grèce centrale à la période byzantine: Analyse à partir des données archéologiques et biologiques. Doctoral dissertation. Paris, FR: Muséum National d'Histoire Naturelle.

Tritsaroli, P. (2019). The Early Ottoman Cemetery of Gouriza. Suomen Ateenan-Instituutti, 13, 441-480.

Tritsaroli, P., \& Karadima, C. (2017). The people of Early Byzantine Maroneia, Greece (5th-6th c. AD). Bioarchaeology of the Near East, 11, 29-62.

Tritsaroli, P., Mion, L., Herrscher, E., André, G., \& Vaxevanis, G. (2022). Health, diet, and mortuary practices in the countryside of Byzantine and post-Byzantine Boeotia: The case of Hagios Sozon in Orchomenos. International Journal of Osteoarchaeology, 32(6), 1238-1252.

Trubeta, S. (2013). Physical anthropology, race and eugenics in Greece (1880s-1970s) Vol. 11. Danvers, MA: Brill.

Turner, C. G. (1978). Dental caries and early Ecuadorian agriculture. American Antiquity, 43(4), 694-697.

Turner, C. G. (1979). Dental anthropological indications of agriculture among the Jomon people of central Japan. American Journal of Physical Anthropology, 51(4), 619-635.

Turner, C.I. \& Nicol, C.R. \& Scott, G.. (1991). Scoring procedures for key morphological traits of the permanent dentition. In (eds.) M.A. Kelley \& C.S. Larsen. Advances in dental Anthropology. New York, NY: Wiley-Liss. Pp. 13-31.

Ubelaker, D. H. (1996). Pipe wear: dental impact of colonial American culture. Anthropologie, 34(3), 321-327.

Valladares Neto, J., Rino Neto, J., \& Paiva, J. B. D. (2013). Orthodontic movement of teeth with short root anomaly: should it be avoided, faced or ignored?. Dental Press Journal of Orthodontics, 18, 72-85.
van de Ven, P. (1962). Vita of Symeon Stylites the Younger: La vie ancienne de S. Syméon Stylite le Jeune. Brussels: Société des Bollandistes.

Vilinskij, S. G. (1911). Vita of Basil the Younger. Odessa, UA: Tekhnik.
Vikan, G. (1984). Art, Medicine, and Magic in Early Byzantium. Dumbarton Oaks Papers, 38, 65-86.

Virchow, R. (1882). Alttrojanische Gräber und Schädel. Berlin, GER: Verlag der Königlichen Akademie der Wissenschaften.

Virchow, R. (1884). Über alte Schädel von Assos und Cypern. Berlin, GER: Verlag der Königlichen Akademie der Wissenschaften.

Virchow, R. (1893). Über griechische Schädel aus alter und neuer Zeit and über einen Schädel von Menidi, der für den des Sophokles gehalten ist. Berlin, GER: Sitzungsberichte der Königlich Preußischen Akademie der Wissenschaften.
van de Vorst, C. (1923). Vita of Saint Evaristos: La vie de S. Evariste, higoumène à Constantinople, Analecta Bollandiana, 41, 288-325.

Voutsaki, S. (2003). Archaeology and the construction of the past in nineteenth century Greece. In E. Forsten (ed). Constructions of Greek Past. Boston, MA: Brill. pp. 231-255.

Waldron, T. (2009). Palaeopathology. Cambridge Manuals in Archaeology. Cambridge, UK: Cambridge University Press.

Wall, S. M., Musgrave, J. H., \& Warren, P. M. (1986). Human bones from a Late Minoan IB house at Knossos. The Annual of the British School at Athens, 333-388.

Warwick (2023). Temple of Apollo Ismenios, Thebes. Classics and Ancient History. https://warwick.ac.uk/fac/arts/classics/intranets/students/modules/greekreligion/database/templat e-copy9/

Watkins, R. J. (2007). Knowledge from the margins: W. Montague Cobb's pioneering research in biocultural anthropology. American Anthropologist, 109(1), 186-196.
Waters-Rist, A. L., Bazaliiskii, V. I., Goriunova, O. I., Weber, A. W., \& Katzenberg, M. A. (2016). Evaluating the biological discontinuity hypothesis of Cis-Baikal Early versus Late Neolithic-Early Bronze Age populations using dental non-metric traits. Quaternary International, 405, 122-133.

Watson, R. A., Adams, W. Y., Barich, B. E., Bell, J. A., Fedele, F. G., Kobylinski, Z., Leonard, R.D, Malmer, M.P., Precuel, R.W. \& Vasicek, Z. (1991). What the New Archaeology Has Accomplished [and Comments and Reply]. Current anthropology, 32(3), 275-291.

Wood, J. W., Milner, G. R., Harpending, H. C., and Weiss, K. M. (1992). The Osteological Paradox: Problems of inferring prehistoric health from skeletal samples. Current Anthropology, 33, 343-370.

World Health Organization. (2003). Who definition of health (http://www.who.int/about/definition/en/ print.html) (accessed 11/01/23).

Xirotiris, N. I. (1986). Die Ethnogenese der Griechen aus der Sicht der Anthropologie. Ethnogenese europäischer Völker, 39-53.

Zander, H. A., \& Hürzeler, B. (1958). Continuous cementum apposition. Journal of Dental Research, 37(6), 1035-1044.

Zhou, J., Qu, D., Fan, L., Yuan, X., Wu, Y., Sui, M., Zhao, J., \& Tao, J. (2023). Applicability of the London Atlas method in the East China population. Pediatric Radiology, 53(2), 256-264.

Zias, J. (1986). Was Byzantine herodium a leprosarium?. The Biblical Archaeologist, 49(3), 182186.

Zuckerman, M. K., \& Armelagos, G. J. (2011). The origins of biocultural dimensions in bioarchaeology. In S. C. Agarwal \& B. A. Glencross (eds.) Social Bioarchaeology. Hoboken, NJ: John Wiley \& Sons. pp. 13-43.

Zuckerman, M. K., \& Martin, D. L. (2016). New directions in biocultural anthropology. Hoboken, NJ: John Wiley \& Sons.

## APPENDICES

# APPENDIX A <br> Scholarship Bioarchaeology 

## A.1. Bioarchaeological Scholarship in Greece

In Greece, bioarchaeological studies emerged in the 1910s when Clon Stefanos, regarded in Greece as the 'Father of Bioarchaeology', developed the first human skeletal collection in the Department of Pathology and Anatomy, at the University of Athens (Barmpouti 2015; Lagia et al. 2014). In 1924, Stefanos' successor, John Koumaris, became the first professor in Anthropology to specialize in, and teach, human skeletal biology at the university. He advocated for interdisciplinary studies and the equal analysis of culture and biology (Koumaris 1939, 1961). Around this time, American anthropologist John Lawrence Angel $(1943,1944)$ arrived in Greece freshly trained under Earnst Hooton in classics and physical anthropology. Angel amalgamated environmental, archaeological and anthropological studies to examine ancient cemeteries. His holistic approach endorsed the study of large skeletal collections that were previously ignored due to their enormity. Further, Greek scholar, Aris Poulianos, established the Anthropological Association of Greece in 1971, which trained bioarchaeologists in holistic methodologies (e.g. Pitsios 1977; Xirotiris 1986). The introduction and dissemination of New Archaeology in Greece championed for interdisciplinary studies and a dependency on science and the scientific method with strong foundations in explicit methodologies and underlying theoretical understandings (Dyson 1993; Snodgrass 1985; Watson et al. 1991). The spread of New Archaeology brought visiting scholars to Greece and developed new advancements from neighboring scientific and cultural disciplines into bioarchaeology (Lagia et al. 2014). This firmly established Greece within the global study of human archaeological remains (Eliopoulos et al. 2011).

## A.2. Byzantine Greece Scholarship

Bioarchaeological research of the Byzantine period in Greece is rather limited. The bulk of studies have focused on dietary reconstruction and the analysis of funerary practices. Angel's (1971) study of Byzantine Greek skeletons explored food discrepancies between aristocrats and commoners. He used skeletal growth and stress marks, stature, and overall health to compare the richness of the food consumed by high and low status citizens. With the advancement of technology, Gravie-Lok (2001) employed stable isotope analysis to examine bone collagen and carbonate of human and faunal remains from coastal, mainland and island archaeological sites dating throughout the Byzantine period. Her analysis demonstrated that majority of the populations studied relied on animal milk and protein, and discovered the presence of millet which was previously unseen in Greek populations. Bourbou and Richards (2004) built on Gravie-Lok's work, incorporating Byzantine sites with various proximities to salt-water resources. Their study confirmed Gravie-Lok's conclusions and demonstrated that the Byzantine diet was relatively similar across Greek communities, regardless of salt-water location. As well, Bourbou and Richards revealed a high reliance on dairy products among lower social classes. In 2010, Bourbou conducted a bioarchaeological analysis of Byzantine Crete which explored diet alongside health and disease. She analyzed eight skeletal collections, examining markers of malnutrition, indications of growth disruptions, and developmental disorders to understand the affect diet had on childhood survivorship. Further isotopic studies by Bourbou and colleagues (2011) identified an increased reliance on deep sea fishing during the spread and introduction of Christianity as a dietary food supplement during fasting periods. As well, Papagerogopoulou and Xirotiris (2009) conducted a skeletal analysis of the Byzantine site of Korytiani, West Greece to explore the prevalence of disease on both the bones and the dentition as an indication of dietary
practices, while Michael and colleagues (2017) studied stress and activity markers in multiple skeletal collections across Byzantine Thebes to examine dietary differences between males and females. Moreover, the study of Byzantine Greek funerary practices using skeletal remains was initiated by Tritsaroli, at the University of Groninen, in the late 2010s and early 2020s. Throughout her work, Tritsaroli (2017, 2022; Tritsaroli et al. 2022) has examined multiple archaeological sites and systematically observed skeletal treatment and body placement in burials, while analyzing the human remains for indications of health, diet and disease. Joining funerary archaeology and bioarchaeology, Tritsaroli has linked unique burial and funerary customs with specific social classes, and has outlined key characteristics of Byzantine era cemeteries.

## APPENDIX B

Grave 38 Example of Calculating MLNI

| Context/Identity Information | Permanent <br> (P) vs. <br> Deciduous <br> (D) | Tooth Type | Upper/Maxillary <br> (U) vs. <br> Lower/Mandibular <br> (L) | Left (L) vs. Right <br> (R) | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Bag: "Skeleton 1" Loose teeth | P | PM1 | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | M3 | U |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M3 | U |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M1 | L | L |  |
| Bag: "Skeleton 1" Loose teeth | P | I1 | U | L |  |
| Bag: "Skeleton 1" Loose teeth | P | I1 | U | R | Match |
| Bag: "Skeleton 1" Loose teeth | P | I1 | U | L | Match |
| Bag: "Skeleton 1" Loose teeth | P | I1 | U | L |  |
| Bag: "Skeleton 1" Loose teeth | P | I1 | U | R |  |
| Bag: "Skeleton 1" Loose teeth | P | C | U | R |  |
| Bag: "Skeleton 1" Loose teeth | P | I1 | U | L |  |
| Bag: "Skeleton 1" Loose teeth | P | C | U | R |  |
| Bag: "Skeleton 1" Loose teeth | P | C | L | L |  |
| Bag: "Skeleton 1" Loose teeth | P | C | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | C | L | L |  |
| Bag: "Skeleton 1" Loose teeth | P | C |  |  |  |
| Bag: "Skeleton 1" Loose teeth | P | C | U | L |  |
| Bag: "Skeleton 1" Loose teeth | P | I2 | U | R | Repeat |
| Bag: "Skeleton 1" Loose teeth | P | PM2 | U |  |  |


| Context/Identity Information | Permanent (P) vs. <br> Deciduous (D) | Tooth Type | Upper/Maxillary <br> (U) vs. <br> Lower/Mandibular <br> (L) | Left (L) vs. Right <br> (R) | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Bag: "Skeleton 1" Loose teeth | P | I1 | U | L? |  |
| Bag: "Skeleton 1" Loose teeth | P | I2 | U | R | Repeat |
| Bag: "Skeleton 1" Loose teeth | P | I2 | U | L |  |
| $\begin{gathered} \text { Bag: "Skeleton 1" } \\ \text { Loose teeth } \\ \hline \end{gathered}$ | P | PM1 | U | R |  |
| Bag: "Skeleton 1" Loose teeth | P | PM2 | U |  |  |
| Bag: "Skeleton 1" Loose teeth | P | PM2 | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | PM2 | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | PM1 | L | L | Match |
| Bag: "Skeleton 1" Loose teeth | P | PM1 | L | R | Match |
| Bag: "Skeleton 1" Loose teeth | P | PM2 | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | PM | U |  |  |
| $\begin{gathered} \text { Bag: "Skeleton 1" } \\ \text { Loose teeth } \\ \hline \end{gathered}$ | P | I1 | U | L |  |
| Bag: "Skeleton 1" Loose teeth | P | PM2 | U | R |  |
| Bag: "Skeleton 1" <br> Loose teeth | P | PM2 | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | PM | L |  |  |
| Bag: "Skeleton 1" <br> Loose teeth | P | PM | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | C | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | M3 | U |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M1/M2 | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M1 | U | R |  |


| Context/Identity Information | Permanent <br> (P) vs. <br> Deciduous <br> (D) | Tooth Type | Upper/Maxillary <br> (U) vs. <br> Lower/Mandibular <br> (L) | Left (L) vs. Right <br> (R) | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Bag: "Skeleton 1" Loose teeth | P | M3 | U |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M1 | U | R |  |
| Bag: "Skeleton 1" Loose teeth | P | M2 | U | R |  |
| Bag: "Skeleton 1" Loose teeth | P | M3 | U |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M3 | U |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M3 |  |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M |  |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M3 |  |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M3 |  |  |  |
| Bag: "Skeleton 1" Loose teeth | D | M2 | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | M2 | L | R | Match |
| Bag: "Skeleton 1" Loose teeth | P | M3 | L | R | Match |
| Bag: "Skeleton 1" Loose teeth | P | M3 | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M1 | L | L |  |
| Bag: "Skeleton 1" Loose teeth | P | M1 | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | M1 | L | L |  |
| Bag: "Skeleton 1" Loose teeth | P | PM | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | M | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M2 | L | L |  |
| Bag: "Skeleton 1" Loose teeth | P | M | L |  |  |


| Context/Identity Information | Permanent <br> (P) vs. <br> Deciduous <br> (D) | Tooth Type | Upper/Maxillary <br> (U) vs. <br> Lower/Mandibular <br> (L) | Left (L) vs. Right <br> (R) | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Bag: "Skeleton 1" Loose teeth | P | M | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M2 | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | M | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | I2 | U | R | Repeat |
| Bag: "Skeleton 1" Loose teeth | P | I2 | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | I2 | U | R | Repeat |
| Bag: "Skeleton 1" Loose teeth | P | I2 | U | L |  |
| Bag: "Skeleton 1" Loose teeth | P | I2 | U | L |  |
| Bag: "Skeleton 1" Loose teeth | D | I1 | L | L |  |
| Bag: "Skeleton 1" Loose teeth | P | I1 | L | L |  |
| Bag: "Skeleton 1" Loose teeth | P | I1 | L | L |  |
| Bag: "Skeleton 1" Loose teeth | P | I1 | L | L |  |
| Bag: "Skeleton 1" Loose teeth | P | I1 | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | I1 | L | L |  |
| Bag: "Skeleton 1" Loose teeth | P | I2 |  |  |  |
| Bag: "Skeleton 1" Loose teeth | P | I2 | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | I |  |  |  |
| Bag: "Skeleton 1" Loose teeth | P | C | U | L | In situ |
| Bag: "Skeleton 1" Loose teeth | P | PM1 | U | L | In situ |


| Context/Identity Information | Permanent <br> (P) vs. <br> Deciduous <br> (D) | Tooth Type | Upper/Maxillary <br> (U) vs. <br> Lower/Mandibular <br> (L) | Left (L) vs. Right <br> (R) | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Bag: "Skeleton 1" Loose teeth | P | C | U | R |  |
| Bag: "Skeleton 1" Loose teeth | P | I2 | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | PM2 | U |  |  |
| Bag: "Skeleton 1" Loose teeth | P | PM1 | U |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M2 | L | R |  |
| Bag: "Skeleton 1" Loose teeth | P | M2 | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | PM |  |  |  |
| Bag: "Skeleton 1" Loose teeth | P | PM | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M2 | U |  |  |
| Bag: "Skeleton 1" Loose teeth | P | PM2 | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | M | L |  |  |
| Bag: "Skeleton 1" Loose teeth | P | PM | L |  |  |
| Skeleton A | P | M3 | L | R | in situ |
| Skeleton A | P | M2 | L | R | in situ |
| Skeleton A | P | M1 | L | R | in situ |
| Skeleton A | P | PM2 | L | R | in situ |
| Skeleton A | P | PM1 | L | R | in situ |
| Skeleton A | P | C | L | R | in situ |
| Skeleton E | P | M1 | U | L | in situ |
| Skeleton E | P | M2 | U | L | in situ |
| Skeleton E | P | M3 | U | L | in situ |
| Skeleton F | P | PM2 | U | R | in situ |
| Skeleton F | P | PM1 | U | R | in situ |
| Skeleton F | P | I2 | U | R | in situ |
| Skeleton F | P | I1 | U | R | in situ |
| Skeleton F | P | I1 | U | L | in situ |
| Skeleton F | P | C | U | L | in situ |


| Context/Identity Information | Permanent <br> (P) vs. <br> Deciduous <br> (D) | Tooth Type | Upper/Maxillary <br> (U) vs. <br> Lower/Mandibular <br> (L) | Left (L) vs. Right <br> (R) | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Skeleton F | P | PM2 | U | L | in situ |
| Skeleton F | P | M1 | U | L | in situ |
| Skeleton F | P | M2 | U | L | in situ |
| Skeleton D | P | PM2 | L | R | in situ |
| Skeleton D | P | PM1 | L | R | in situ |
| Skeleton D | P | C | L | R | in situ |
| Skeleton D | P | I2 | L | R | in situ |
| Skeleton D | P | I1 | L | R | in situ |
| Skeleton D | P | I1 | L | L | in situ |
| Skeleton D | P | I2 | L | L | in situ |
| Skeleton D | P | C | L | L | in situ |
| Skeleton D | P | PM1 | L | L | in situ |
| Skeleton D | P | PM2 | L | L | in situ |
| Skeleton D | P | M1 | L | L | in situ |
| Skeleton D | P | M2 | L | L | in situ |
| Skeleton D | P | M3 | L | L | in situ |
| Skeleton 1 | P | M3 | L | R | in situ |
| Skeleton 1 | P | M2 | L | R | in situ |
| Skeleton 1 | P | C | L | R | in situ |
| Skeleton 1 | P | PM1 | L | L | in situ |
| Skeleton 1 | P | PM2 | L | L | in situ |
| Skeleton 1 | P | M1 | L | L | in situ |
| Skeleton 1 | P | M2 | L | L | in situ |
| Skeleton 1 | P | M3 | L | L | in situ |
| Skeleton B | P | M1 | L | R | in situ |
| Skeleton B | P | PM2 | L | R | in situ |
| Skeleton B | P | PM1 | L | R | in situ |
| Skeleton B | P | C | L | R | in situ |
| Skeleton B | P | I2 | L | R | in situ |
| Skeleton H | P | M1 | U | R | in situ |
| Skeleton H | P | PM2 | U | R | in situ |
| Skeleton H | P | PM1 | U | R | in situ |
| Skeleton C | P | I1 | L | L | in situ |
| Skeleton C | P | I2 | L | L | in situ |
| Skeleton C | P | C | L | L | in situ |


| Context/Identity <br> Information | Permanent <br> (P) vs. <br> Deciduous <br> (D) | Tooth <br> Type | Upper/Maxillary <br> (U) vs. <br> Lower/Mandibular <br> (L) | Left (L) <br> vs. Right <br> (R) | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Skeleton C | P | PM1 | L | L | in situ |
| Skeleton C | P | PM 2 | L | L | in situ |
| Skeleton C | P | M 1 | L | L | in situ |
| Skeleton C | P | M 2 | L | L | in situ |
| Skeleton G | P | M 3 | U | R | in situ |
| Skeleton G | P | M 2 | U | R | in situ |
| Skeleton G | P | M 1 | U | R | in situ |
| Skeleton G | P | PM 2 | U | R | in situ |
| Skeleton G | P | PM 1 | U | R | in situ |
| Skeleton G | P | C | U | R | in situ |

Table 1. Inventory of Grave 38 as an example of how MLNI was determined. Bolded areas are individuals determined from pair matching or they have in situ teeth associated with specific individuals. Under notes, "repeat" identifies teeth that are used to calculate MLNI as they are the highest repeated tooth type within that grave, "match" identifies teeth that are paired together, "in situ" identifies teeth that remained in situ in maxillae or mandibles.

APPENDIX C
Dental Inventory

| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \end{gathered}$ | $\underset{\mathbf{L}}{\mathbf{U} \text { vs }}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{gathered} \text { Smith } \\ (1984) \end{gathered}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 1-3-61 | P | U | RT | I2 |  |  |  |  | 4 |  |  | 1 |  |
| 4 | 1-3-61 | P | U | RT | PM1 |  |  |  |  | 4 |  |  |  |  |
| 4 | 1-3-61 | P | U | RT | PM2 |  |  |  |  | 4 |  |  |  |  |
| 4 | 1-3-61 | P | U | RT | M1 |  |  |  |  |  | 16 |  |  |  |
| 4 | 1-3-61 | P | U | RT | M2 |  |  |  |  |  | 16 |  |  |  |
| 4 | 1-3-61 | P | U | RT | M3 |  |  |  |  |  | 16 |  |  |  |
| 4 | 1-3-61 | P | U | RT | C |  |  |  |  | 4 |  |  | 1 |  |
| 4 | 1-3-61 | P | U | LT | PM1 |  |  |  |  | 4 |  |  |  |  |
| 4 | 1-3-61 | P | U | LT | M1 | X |  |  |  |  | 16 |  |  |  |
| 4 | 1-3-61 | P | U | LT | M2 |  |  |  |  |  | 16 |  |  |  |
| 4 | 1-3-61 | P | U | LT | M3 |  |  |  |  |  | 16 |  |  |  |
| 4 | 1-3-61 | P | U | LT | I1 |  |  |  |  | 7 |  |  | 1 |  |
| 4 | 1-3-61 | P | U | RT | I1 |  |  |  |  | 7 |  |  |  |  |
| 4 | 1-3-61 | P | U | RT | I2 |  |  |  |  | 7 |  |  |  |  |
| 4 | 1-3-61 | P | U | RT | C |  |  |  |  | 7 |  |  |  |  |
| 4 | 1-3-61 | P | U | LT | I1 |  |  |  |  | 2 |  |  | 1 |  |
| 4 | 1-3-61 | P | U | RT | I1 |  |  |  |  | 2 |  |  |  |  |
| 4 | 1-3-61 | P | U | LT | I2 |  |  |  |  | 1 |  |  | 1 |  |
| 4 | 1-3-61 | P | U | RT | I2 |  |  |  |  | 1 |  |  |  |  |
| 4 | 1-3-61 | P | L | RT | PM2 |  |  |  |  | 5 |  |  | 3 |  |
| 4 | 1-3-61 | P | U | LT | C |  |  |  | 1 | 7 |  |  |  |  |
| 4 | 1-3-61 | P | U | LT | I2 |  |  |  |  | 2 |  |  |  |  |
| 4 | 1-3-61 | P | L | LT | I2 |  | X |  | 3.31 | 3 |  |  |  |  |
| 4 | 1-3-61 | P | U | RT | C |  |  |  | 3.35 | 6 |  |  |  |  |
| 4 | 1-3-61 | P | U | LT | C |  |  |  |  | 4 |  |  |  |  |
| 4 | 1-3-61 | P | L | LT | C |  |  |  |  | 3 |  |  |  |  |
| 4 | 1-3-61 | P | L | RT | C |  |  |  |  | 4 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{gathered} \text { Smith } \\ (1984) \end{gathered}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 1-3-61 | P | U | RT | PM1 |  |  |  |  | 1 |  |  |  |  |
| 4 | 1-3-61 | P | U | RT | PM2 |  |  |  |  | 1 |  |  |  |  |
| 4 | 1-3-61 | P | U | RT | PM1 |  |  |  | $\begin{array}{r} 2.10, \\ 4.03 \\ \hline \end{array}$ | 1 |  |  |  |  |
| 4 | 1-3-61 | P | U | RT | PM1 |  |  |  |  | 1 |  |  |  |  |
| 4 | 1-3-61 | P | U | LT | PM1 |  |  |  | 2.5 | 1 |  |  |  |  |
| 4 | 1-3-61 | P | U | RT | PM1 |  |  |  |  | 5 |  |  |  |  |
| 4 | 1-3-61 | P | U |  | PM2 |  |  |  |  | 6 |  |  |  |  |
| 4 | 1-3-61 | P | L |  | PM |  |  |  |  | 7 |  |  |  |  |
| 4 | 1-3-61 | P | L | RT | PM1 |  |  |  |  | 6 |  |  |  |  |
| 4 | 1-3-61 | P | U |  | PM2 |  |  |  | 2.7 | 6 |  |  |  |  |
| 4 | 1-3-61 | P | L | LT | PM1 |  |  |  | 1.95 | 5 |  |  |  |  |
| 4 | 1-3-61 | P | L |  | PM |  |  |  |  | 6 |  |  |  |  |
| 4 | 1-3-61 | P | U | LT | M1 | X |  |  |  |  | 8 |  |  |  |
| 4 | 1-3-61 | P | U |  | M3 |  |  |  |  |  | 28 |  |  |  |
| 4 | 1-3-61 | P | U | LT | M3 | X |  |  |  |  | 8 |  |  | Repeat |
| 4 | 1-3-61 | P | U | LT | M3 |  | X |  |  |  | 12 |  |  | Repeat |
| 4 | 1-3-61 | P | U | LT | M2 |  |  |  |  |  | 4 |  |  |  |
| 4 | 1-3-61 | P | U |  | M | X |  |  |  |  | 32 |  |  |  |
| 4 | 1-3-61 | P | L | RT | M2 |  |  |  |  |  | 20 |  |  |  |
| 4 | 1-3-61 | P | L |  | M2 |  |  |  |  |  | 20 |  |  |  |
| 4 | 1-3-61 | D | L | RT | M1 |  |  |  |  |  |  | 8 |  |  |
| 4 | 1-3-61 | D | U | LT | M2 |  |  |  |  |  | 8 |  |  |  |
| 4 | 1-3-61 | P | L | RT | C |  |  |  |  |  |  | 4.5 |  |  |
| 4 | 1-3-61 | P | U | LT | M3 |  |  |  |  |  |  | 13.5 |  | Repeat |
| 5 | 1-3-64 | P | U | RT | I1 |  |  |  | 3.06 | 4 |  |  |  | SRA |
| 5 | 1-3-64 | P | L |  | PM |  |  |  |  | 4 |  |  | 1 | SRA |
| 5 | 1-3-64 | P |  |  | PM | X |  |  |  | 3 |  |  |  | SRA |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathbf{m m}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | 1-3-64 | P | L | LT | I1 |  |  |  |  |  |  |  | 1 |  |
| 5 | 1-3-64 | P | L | LT | I2 |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L | LT | C |  |  |  | 2.97, 4.51 |  |  |  |  |  |
| 5 | 1-3-64 | P | L | LT | PM2 |  |  |  |  | 3 |  |  | 1 |  |
| 5 | 1-3-64 | P | L | LT | M1 |  |  |  |  |  | 16 |  |  |  |
| 5 | 1-3-64 | P | L | LT | M2 |  |  |  |  |  | 4 |  | 1 |  |
| 5 | 1-3-64 | P | L | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 5 | 1-3-64 | P | U | LT | I2 |  |  |  |  |  |  |  | 1 |  |
| 5 | 1-3-64 | P | U | RT | I2 |  |  |  | $\begin{aligned} & \hline 2.54, \\ & 3.83 \\ & \hline \end{aligned}$ | 1 |  |  |  |  |
| 5 |  | P | U | RT | M2 |  |  |  |  |  |  | 9.5 | 1 |  |
| 5 |  | P | U | LT | M2 |  |  |  |  |  |  | 9.5 |  |  |
| 5 |  | D | L | LT | M2 |  |  |  |  |  |  | 11.5 | 1 |  |
| 5 |  | D | L | RT | M2 |  |  |  |  |  |  | 11.5 |  |  |
| 5 | $\begin{gathered} 1-3- \\ 55 / 64 \end{gathered}$ | D |  |  | C |  |  |  |  |  |  |  | 1 |  |
| 5 | $\begin{gathered} 1-3- \\ 55 / 64 \end{gathered}$ | D | U |  | M2 |  |  |  |  |  |  |  |  |  |
| 5 | $\begin{gathered} 1-3- \\ 55 / 64 \end{gathered}$ | D |  |  | M |  |  |  |  |  |  |  |  |  |
| 5 |  | P | U | LT | I1 |  |  | Carabelli's Cusp |  |  |  | 4.5 | 1 |  |
| 5 |  | P | U | RT | I1 |  |  | Carabelli's Cusp |  |  |  | 4.5 |  |  |
| 5 |  | D | U | RT | M2 |  |  |  |  |  |  |  |  |  |
| 5 |  | D | U | LT | M2 |  |  |  |  |  |  |  | 1 |  |
| 5 |  | D | U | RT | M2 |  |  |  |  |  |  |  |  |  |


| Grave | Context | P vs D | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 |  | P | L | RT | I1 |  |  |  |  |  |  | 4.5 |  |  |
| 5 |  | P | L | LT | I1 |  |  |  |  |  |  | 4.5 | 1 |  |
| 5 |  | P | U | RT | PM1 |  |  |  |  |  |  | 5.5 | 1 |  |
| 5 |  | P | U | RT | PM2 |  |  |  |  |  |  | 5.5 |  |  |
| 5 | 1-3-64 | P | L | LT | M1 |  |  |  |  | 5 |  |  | 5 |  |
| 5 | 1-3-64 | P | L | LT | M2 |  |  |  |  | 2 |  |  | 5 |  |
| 5 | 1-3-64 | P | L | RT | M2 |  |  |  |  | 1 |  |  |  |  |
| 5 | 1-3-64 | P | L | RT | M2 |  |  |  |  | 3 |  |  |  |  |
| 5 | 1-3-64 | P | L | LT | M1 |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L | LT | M1 |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L | RT | M1 |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L | LT | M2 |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L |  | M |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L | RT | M3 |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L |  | M |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L | LT | M2 |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L | RT | C |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L | RT | I2 |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L | RT | I1 |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | U | LT | C |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L | LT | PM2 |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | U | LT | I2 |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | U |  | C |  |  |  |  |  |  |  |  |  |
| 5 | 1-3-64 | P | L | LT | PM2 |  |  |  |  |  | 16 |  |  |  |
| 5 | 1-3-64 | P | L | LT | PM2 |  |  |  |  |  | 8 |  |  |  |
| 5 | 1-3-64 | P | L |  | PM |  |  |  |  |  | 8 |  |  |  |
| 5 | 1-3-64 | P | L |  | PM1 |  |  |  |  |  | 16 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | 1-3-64 | P | L | LT | PM2 |  |  |  |  |  | 8 |  |  |  |
| 5 | 1-3-64 | P | L | LT | PM2 |  |  |  |  |  | 8 |  |  |  |
| 5 | 1-3-64 | P | L | LT | PM1 |  |  |  |  |  | 20 |  |  |  |
| 5 | 1-3-64 | P | U |  | PM2 |  |  |  |  |  | 12 |  |  |  |
| 5 | 1-3-64 | P | L | LT | PM |  |  |  | $\begin{gathered} \hline 4.33, \\ 6.57 \\ \hline \end{gathered}$ | 4 |  |  |  |  |
| 5 | 1-3-64 | P | U | RT | I2 |  |  |  | 4.07 | 3 |  |  |  | Repeat |
| 5 | 1-3-64 | P | L | RT | I2? |  |  |  |  | 3 |  |  |  |  |
| 5 | 1-3-64 | D | U |  | M2 |  |  |  |  | 5 |  |  |  |  |
| 5 | 1-3-64 | P | U | RT | PM1 |  |  |  |  | 4 |  |  |  |  |
| 5 | 1-3-64 | P | U | LT | M1 |  |  |  |  | 1 |  |  |  |  |
| 5 | 1-3-64 | P | U | RT | I1 |  |  |  |  | 6 |  |  |  |  |
| 5 | 1-3-64 | P | U | RT | M2 |  |  |  |  | 3 |  |  |  |  |
| 5 | 1-3-64 | P | U | RT | I2 |  |  |  |  | 4 |  |  |  | Repeat |
| 5 | 1-3-64 | P | U | RT | M2 |  |  |  |  | 5 |  |  |  |  |
| 5 | 1-3-64 | P | U | LT | I1 |  |  |  |  | 4 |  |  |  |  |
| 5 | 1-3-64 | P | U | LT | M2 |  |  |  | 2.92 |  |  |  |  |  |
| 5 | 1-3-64 | P | U |  | M | C |  |  |  |  |  | 7.5 |  |  |
| 5 | 1-3-64 | P | U | RT | M2 |  |  |  |  | 3 |  |  |  |  |
| 5 | 1-3-64 | P | U | LT | M3 |  |  |  |  | 5 |  |  |  |  |
| 5 | 1-3-64 | P | U | LT | M3 |  |  |  |  | 1 |  |  |  |  |
| 5 | 1-3-64 | P | U | LT | I1 |  |  |  | 3.64 | 3 |  |  |  |  |
| 5 | 1-3-64 | P | U |  | I1 |  |  |  | 5.09 | 3 |  |  |  |  |
| 5 | 1-3-64 | P | U | LT | PM1 |  |  |  | belli's |  |  | 4.5 m |  |  |
| 5 | 1-3-64 | P | U | RT | M3 |  |  |  |  | 4 |  |  |  |  |
| 5 | 1-3-64 | P | U | RT | PM1 |  |  |  |  |  | 4 |  |  |  |
| 5 | 1-3-64 | P | U | LT | PM1 |  |  |  |  | 1 |  |  |  |  |
| 5 | 1-3-64 | P | U | RT | PM1 |  |  |  |  |  | 16 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \mathbf{U} \mathbf{v s} \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 | 1-3-64 | P | U |  | M |  |  |  | $\begin{aligned} & 2.40 \\ & 4.50 \\ & 6.37 \\ & \hline \end{aligned}$ | 4 |  |  |  |  |
| 5 | 1-3-64 | P | U | LT | M3 |  |  |  |  |  | 20 |  |  |  |
| 5 | 1-3-64 | P | U | LT | M3 |  |  |  |  |  |  | 9.5 |  |  |
| 5 | 1-3-64 | P | U | LT | PM2 |  |  |  |  |  | 8 |  |  |  |
| 5 | 1-3-64 | P | U | LT | I |  |  |  |  |  | 24 |  |  |  |
| 5 | 1-3-64 | P |  |  | PM |  |  |  |  |  | 16 |  |  |  |
| 5 | 1-3-64 | P | U |  | PM1 |  |  |  |  |  | 16 |  |  |  |
| 5 | 1-3-64 | P | U |  | PM1 |  |  |  |  |  | 4 |  |  |  |
| 5 | 1-3-64 | P | U | LT | I1 |  |  |  |  | 3 |  |  |  |  |
| 5 | 1-3-64 | P | U | LT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 5 | 1-3-64 | P | U | RT | I2 |  |  |  |  | 3 |  |  |  | Repeat |
| 5 | 1-3-64 | P | U | LT | C |  |  |  |  | 4 |  |  |  |  |
| 5 | 1-3-64 | P | U |  | PM2 |  |  |  |  | 5 |  |  |  |  |
| 5 | 1-3-64 | P | U |  | PM2 |  |  |  |  | 5 |  |  |  |  |
| 5 | 1-3-64 | P | U |  | I1 |  |  |  |  | 5 |  |  |  |  |
| 5 | 1-3-64 | P | U |  | C |  |  |  |  | 5 |  |  |  |  |
| 5 | 1-3-64 | P | U | RT | C |  |  |  |  | 1 |  |  |  |  |
| 5 | 1-3-64 | P | L |  | M |  |  |  |  | 1 |  |  |  |  |
| 5 | 1-3-64 | P | U |  | I1 |  |  |  |  | 4 |  |  |  |  |
| 5 |  | P | U | LT | I1 |  |  |  |  |  |  | 5.5 |  |  |
| 5 |  | P | U | LT | I2 |  |  |  |  |  |  | 5.5 |  |  |
| 5 |  | P | U | RT | M1 |  |  |  |  |  |  | 4.5 |  |  |
| 5 |  | P | U | LT | M2 |  |  |  | abelli's |  |  | 8.5 |  |  |
| 5 |  | P | U | RT | M2 |  |  |  |  |  |  | 9.5 |  |  |
| 5 |  | D | L | RT | M2 |  |  |  |  |  |  | 9.5 |  |  |
| 5 |  | P | L | LT | M1 |  |  |  |  |  |  | 5.5 |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \end{gathered}$ | $\underset{\mathbf{L}}{\mathbf{U} \text { vs }}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 |  | D | U | LT | M2 |  |  |  |  |  |  | 8.5 |  |  |
| 5 |  | D | U | LT | M2 |  |  |  |  |  | 4 |  |  |  |
| 5 |  | D | U | RT | M1 |  |  |  |  |  |  | 8.5 |  |  |
| 5 |  | D | L | RT | M1 |  |  |  |  |  |  | 7.5 m |  |  |
| 5 |  | D | L | RT | M1 |  |  |  |  |  |  | 7.5 m |  |  |
| 5 |  | D | L | LT | M1 |  |  |  |  |  |  | 10.5 m |  |  |
| 5 |  | P | U | RT | C |  |  |  |  | 3 |  |  |  |  |
| 5 |  | P | U | LT | PM1 |  |  |  |  |  |  | 6.5 |  |  |
| 5 |  | P | L | LT | M2 |  |  |  |  |  | 8 |  |  |  |
| 5 |  | P | L |  | M2 |  |  |  |  |  | 8 |  |  |  |
| 5 |  | P | L |  | PM |  |  |  |  |  |  | 6.5 |  |  |
| 5 |  | P | L |  | PM1 |  |  |  |  |  |  | 5.5 |  |  |
| 5 |  | P |  |  | M3 |  |  |  |  |  |  | 13.5 |  |  |
| 5 |  | P |  |  | M3 |  |  |  |  |  |  | 13.5 |  |  |
| 5 |  | P | L |  | M3 |  |  |  |  |  | 32 |  |  |  |
| 5 |  | P | L |  | M3 |  |  |  |  |  |  | 13.5 |  |  |
| 5 |  | P | L | LT | M2 |  |  |  |  |  |  | 8.5 |  |  |
| 5 |  | P | L | RT | M2 |  |  |  |  |  |  | 7.5 |  |  |
| 5 |  | P | L |  | M3 |  |  |  |  |  |  |  |  |  |
| 5 |  | P | L |  | M3 |  |  |  |  |  |  | 13.5 |  |  |
| 5 | $\begin{gathered} \hline 1-3- \\ 55 / 64 \\ \hline \end{gathered}$ | D | U | LT | C |  |  |  |  |  | 20 |  |  |  |
| 5 | $\begin{gathered} 1-3- \\ 55 / 64 \end{gathered}$ | D | L | LT | M1 |  |  |  |  |  |  | 1.5 m |  |  |
| 5 |  | P | U | LT | I2 |  |  |  |  |  |  | 5.5 |  |  |
| 5 |  | P | U | RT | I2 |  |  |  |  |  |  | 5.5 |  | Repeat |
| 5 |  | P | L | RT | C |  |  |  |  |  |  | 5.5 |  |  |
| 5 |  | P | U | RT | I2 |  |  |  |  |  |  | 5.5 |  | Repeat |
| 5 |  | P | L | LT | C |  |  |  |  |  |  | 5.5 |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{gathered} \text { Smith } \\ (1984) \end{gathered}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5 |  | P | L | LT | I2 |  |  |  |  |  |  | 3.5 |  |  |
| 5 |  | D | U | LT | C |  |  |  |  | 4 |  |  |  |  |
| 5 |  | D | U | RT | C |  |  |  |  | 6 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | I1 |  |  |  |  |  |  | 4.5 |  |  |
| 9 | 2-3-29 | P | U | RT | I1 |  |  |  |  |  |  | 4.5 | 1 |  |
| 9 | 2-3-29 | P | U | LT | C |  |  |  |  |  |  | 4.5 |  |  |
| 9 | 2-3-29 | P | U | LT | M1 |  |  |  | abelli's |  |  | 3.5 | 1 |  |
| 9 | 2-3-29 | P | U | RT | M1 |  |  |  | abelli's |  |  | 3.5 |  |  |
| 9 | 2-3-29 | P | L | RT | PM2 |  |  |  |  |  |  | 6.5 |  |  |
| 9 | 2-3-29 | P | U | RT | PM1 |  |  |  |  |  |  | 6.5 | 1 |  |
| 9 | 2-3-29 | P | L | RT | I1 |  |  |  | 2.2 |  |  | 4.5 |  |  |
| 9 | 2-3-29 | P | L | RT | I2 |  |  |  |  |  |  | 4.5 | 1 |  |
| 9 | 2-3-29 | P | L | LT | I1 |  |  |  | 3.76 |  |  | 3.5 |  |  |
| 9 | 2-3-29 | P | L | RT | I2 |  |  |  |  |  |  | 3.5 | 1 |  |
| 9 | 2-3-29 | P | L | RT | C |  |  |  | $\begin{aligned} & 2.83, \\ & 4.50 \\ & 7.46 \end{aligned}$ | 2 |  |  | 1 |  |
| 9 | 2-3-29 | P | L | LT | C |  |  |  | $\begin{gathered} 3.27, \\ 5.16 \\ \hline \end{gathered}$ | 2 |  |  |  |  |
| 9 | 2-3-29 | P | U | RT | C |  |  |  | 5.1 | 1 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | C |  |  |  |  | 1 |  |  | 1 |  |
| 9 | 2-3-29 | P | U | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 9 | 2-3-29 | P | U | RT | PM2 |  |  |  |  | 2 |  |  | 1 |  |
| 9 | 2-3-29 | P | U | LT | M1 |  |  |  | abelli's |  | 4 |  | 1 |  |
| 9 | 2-3-29 | P | U | RT | M1 |  |  |  | abelli's |  | 4 |  | 1 |  |
| 9 | 2-03-29 | P | U | RT | I1 |  |  |  |  | 5 |  |  | 1 |  |



| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \end{gathered}$ | $\underset{\mathbf{L}}{\mathbf{U} \text { vs }}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 2-3-29 | P | L |  | PM2 |  |  |  |  |  |  | 6.5 |  |  |
| 9 | 2-3-29 | P | L | LT | PM1 |  |  |  |  |  |  | 6.5 |  |  |
| 9 | 2-3-29 | P | U | RT | PM2 |  |  |  |  |  |  | 6.5 |  |  |
| 9 | 2-3-29 | P | L | RT | PM2 |  |  |  |  |  |  | 6.5 |  |  |
| 9 | 2-3-29 | P | U | RT | PM1 |  |  |  |  |  |  | 6.5 |  |  |
| 9 | 2-3-29 | P | U | RT | I2 |  |  | Sho | ling |  |  | 5.5 |  |  |
| 9 | 2-3-29 | P | L | LT | I1 |  |  |  |  |  |  | 3.5 |  |  |
| 9 | 2-3-29 | P | L | RT | I |  |  |  |  |  |  | 4.5 |  |  |
| 9 | 2-3-29 | P | L |  | I |  |  |  | 1.29 |  |  | 3.5 |  |  |
| 9 | 2-3-29 | P | L | RT | I2 |  |  |  | 4.22 |  |  | 3.5 |  |  |
| 9 | 2-3-29 | P | L | RT | I |  |  |  |  |  |  | 3.5 |  |  |
| 9 | 2-3-29 | P | U | RT | I1 |  |  |  |  |  |  | 5.5 |  |  |
| 9 | 2-3-29 | P | U | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | I1 |  |  |  |  | 5 |  |  |  | SRA |
| 9 | 2-3-29 | P | U | RT | I1 |  |  |  |  | 5 |  |  |  |  |
| 9 | 2-3-29 | P | U |  | I1 |  |  |  |  | 3 |  |  |  |  |
| 9 | 2-3-29 | P | L |  | I2 |  |  |  |  |  |  | 3.5 |  |  |
| 9 | 2-3-29 | P | L | LT | C |  |  |  |  |  |  |  |  |  |
| 9 | 2-3-29 | P |  |  | C |  |  |  |  | 3 |  |  |  |  |
| 9 | 2-3-29 | P | L |  | C |  |  |  | $\begin{aligned} & 1.08, \\ & 2.27, \\ & 3.86, \\ & 6.43, \\ & 8.35 \end{aligned}$ | 5 |  |  |  |  |
| 9 | 2-3-29 | P | U | RT | I1 |  |  |  |  |  |  |  |  |  |
| 9 | 2-3-29 | P | L | RT | C |  |  |  | $\begin{aligned} & \hline 1.63, \\ & 2.62 \\ & \hline \end{aligned}$ | 4 |  |  |  |  |
| 9 | 2-3-29 | P | L | RT | I2 |  |  |  | $\begin{array}{r} 3.57 \\ , 5.49 \\ \hline \end{array}$ | 4 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | Smith (1984) | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 2-3-29 | P | L | LT | I1 |  |  |  | $\begin{gathered} \hline 3.09 \\ 4.09 \\ 5.30 \end{gathered}$ | 4 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | I2 |  |  |  |  | 1 |  |  |  |  |
| 9 | 2-3-29 | P | L | LT | C |  |  |  | $\begin{aligned} & 3.18, \\ & 4.17 \end{aligned}$ | 1 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | C |  |  |  |  | 3 |  |  |  |  |
| 9 | 2-3-29 | P | U | RT | C |  |  |  |  | 1 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | C |  |  |  | 4.86 | 1 |  |  |  |  |
| 9 | 2-3-29 | P | L | RT | C |  |  |  | $\begin{gathered} 2.19, \\ 4.81, \\ 6.51 \end{gathered}$ | 4 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | C |  |  |  |  | 3 |  | 6.5 |  |  |
| 9 | 2-3-29 | P | U | RT | C |  |  |  | $\begin{aligned} & 1.97, \\ & 2.55 \\ & 4.18 \end{aligned}$ | 3 |  |  |  |  |
| 9 | 2-3-29 | P | L | LT | C |  |  |  | $\begin{gathered} 3.13 \\ 5.43 \\ \hline \end{gathered}$ | 2 |  |  |  |  |
| 9 | 2-3-29 | P | L | RT | C |  |  |  | 3.49 | 1 |  |  |  |  |
| 9 | 2-3-29 | P | L | LT | C |  |  |  | $\begin{aligned} & 2.12, \\ & 3.32, \\ & 4.35 \\ & \hline \end{aligned}$ | 1 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | C |  |  |  | 2.04 | 3 |  |  |  |  |
| 9 | 2-3-29 | P | U | RT | C |  |  |  |  | 2 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | C |  | X |  |  | 3 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | C |  |  |  | 4.48 | 2 |  | 5.5 |  |  |
| 9 | 2-3-29 | P | U | LT | C |  |  |  |  | 5.29, 6.8 |  | 5.5 |  |  |
| 9 | 2-3-29 | P | U | RT | C |  |  |  | $\begin{gathered} 2.50 \\ 5.44 \\ \hline \end{gathered}$ | 2 |  |  |  |  |
| 9 | 2-3-29 | P | L | LT | PM2 |  |  |  |  | 6 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | PM2 |  |  |  |  | 4 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | U vs L | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 2-3-29 | P | L | LT | PM1 |  |  |  | $\begin{gathered} 2.74, \\ 4.98 \\ \hline \end{gathered}$ | 1 |  |  |  |  |
| 9 | 2-3-29 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 9 | 2-3-29 | P | L | LT | PM2 |  |  |  |  | 5 |  |  |  |  |
| 9 | 2-3-29 | P | L |  | PM |  |  |  |  | 3 |  |  |  |  |
| 9 | 2-3-29 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 9 | 2-3-29 | P | L |  | PM2 |  |  |  |  | 2 |  |  |  |  |
| 9 | 2-3-29 | P | L |  | PM2 |  |  |  |  | 1 |  |  |  |  |
| 9 | 2-3-29 | P | U |  | PM |  |  |  |  | 1 |  |  |  |  |
| 9 | 2-3-29 | P | L |  | PM2 |  |  |  |  | 5 |  |  |  |  |
| 9 | 2-3-29 | P | U | RT | PM1 |  |  |  |  | 4 |  |  |  |  |
| 9 | 2-3-29 | P | U | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | PM1 |  |  |  |  | 1 |  |  |  |  |
| 9 | 2-3-29 | P | U | RT | PM2 |  |  |  |  | 1 |  |  |  |  |
| 9 | 2-3-29 | P | U | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 9 | 2-3-29 | P | U | RT | PM1 |  |  |  |  | 1 |  |  |  |  |
| 9 | 2-3-29 | P | U |  | M3 |  |  |  | 2.66 |  | 8 |  |  |  |
| 9 | 2-3-29 | P | L | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 9 | 2-3-29 | P | U |  | PM | X |  |  |  | 6 |  |  |  |  |
| 9 | 2-3-29 | P |  |  | PM |  |  |  |  | 6 |  |  |  |  |
| 9 | 2-3-29 | P | L | LT | M2 |  |  |  |  |  | 20 |  |  |  |
| 9 | 2-3-29 | P | L | LT | M1 |  |  |  |  |  |  | 3.5 |  | Repeat |
| 9 | 2-3-29 | P | L | LT | M1 |  |  |  |  |  |  | 2.5 |  | Repeat |
| 9 | 2-3-29 | P | L | LT | M1 |  |  |  |  |  |  | 2.5 |  | Repeat |
| 9 | 2-3-29 | P | L | RT | M1 |  |  |  |  |  | 24 |  |  |  |
| 9 | 2-3-29 | P | L | RT | M1 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | L | LT | M1 |  |  |  |  |  |  | 3.5 |  | Repeat |
| 9 | 2-3-29 | P | L | LT | M1 |  |  |  |  |  | 8 |  |  | Repeat |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \end{gathered}$ | $\underset{\mathbf{L}}{\mathbf{U} \text { vs }}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 2-3-29 | D | L | RT | M1 |  |  |  |  |  |  |  |  |  |
| 9 | 2-3-29 | P | L | LT | M1 |  |  |  |  |  | 20 |  |  | Repeat |
| 9 | 2-3-29 | P | L |  | M3 |  |  |  |  |  | 8 |  |  |  |
| 9 | 2-3-29 | P | L | LT | M3? |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | L | RT | M1 |  |  |  |  |  |  |  |  |  |
| 9 | 2-3-29 | P | L | LT | M1 |  |  |  |  |  | 8 |  |  | Repeat |
| 9 | 2-3-29 | P | U | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | U |  | M3 |  |  |  |  |  | 16 |  |  |  |
| 9 | 2-3-29 | P | U | LT | M2 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | L | RT | M1 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | U | LT | M3 |  |  |  |  |  | 20 |  |  |  |
| 9 | 2-3-29 | P | L | LT | PM2 |  |  |  |  |  | 8 |  |  |  |
| 9 | 2-3-29 | P | U | LT | M3 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | U | RT | M3 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | U |  | M3 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | U | RT | M3 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | U |  | M3 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | U |  | M3 |  |  |  |  |  |  | 11.5 |  |  |
| 9 | 2-3-29 | P | U | RT | M3 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | U | RT | M1 |  |  |  |  |  |  | 3.5 |  |  |
| 9 | 2-3-29 | P | U | LT | M2 |  |  |  |  |  |  | 7.5 |  |  |
| 9 | 2-3-29 | P | U | LT | M1 |  |  | abelli's C |  |  | 0 |  |  |  |
| 9 | 2-3-29 | P | U | LT | M1 |  |  |  |  |  |  | 3.5 |  |  |
| 9 | 2-3-29 | D | U | RT | M2 |  |  | abelli's C |  |  |  |  |  |  |
| 9 | 2-3-29 | P | U | RT | M1 |  |  | abelli's C |  |  | 20 |  |  |  |
| 9 | 2-3-29 | P |  |  | M |  |  |  |  |  | 20 |  |  |  |
| 9 | 2-3-29 | P |  |  | M |  |  |  |  |  | 20 |  |  |  |
| 9 | 2-3-29 | P |  |  | M |  |  |  |  |  |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 2-3-29 | P | L | LT | M2 |  |  |  |  |  | 0 |  |  |  |
| 9 | 2-3-29 | P | L | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | L | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | L | RT | M2 |  |  |  |  |  | 0 |  |  |  |
| 9 | 2-3-29 | P | L | LT | M2 |  |  |  |  |  | 16 |  |  |  |
| 9 | 2-3-29 | P | L | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | L | LT | M2 |  |  |  |  |  | 0 |  |  |  |
| 9 | 2-3-29 | P | U | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | U | LT | M2 |  |  |  |  |  | 0 |  |  |  |
| 9 | 2-3-29 | P | L | LT | M2 |  |  |  |  |  | 0 |  |  |  |
| 9 | 2-3-29 | P | L | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 9 | 2-3-29 | P | U | LT | M2 |  |  |  |  |  | 8 |  |  |  |
| 9 | 2-3-29 | P | U | RT | M2 |  |  |  |  |  | 12 |  |  |  |
| 9 | 2-3-29 | P | L | RT | M2 |  |  |  |  |  | 12 |  |  |  |
| 9 | 2-3-29 | P | U | LT | M3 |  |  |  |  |  | 8 |  |  |  |
| 9 | 2-3-29 | P | L | RT | PM2 |  |  |  | 1.96 |  | 4 |  |  |  |
| 9 | 2-3-29 | P | L | LT | PM1 |  |  |  |  |  | 8 |  |  |  |
| 10 | 1-7-26 | P | U | LT | PM1 | X |  |  | 2 |  |  |  | 1 |  |
| 12 | Skeleton 1-5-103 | P | L | RT | I2 |  | X |  |  | 4 |  |  |  |  |
| 12 | $\begin{gathered} \text { Skeleton } \\ 1-5-103 \end{gathered}$ | P | L | RT | C |  |  |  | $\begin{aligned} & \hline 2.19, \\ & 3.61, \\ & 5.68 \\ & \hline \end{aligned}$ | 4 |  |  | 1 |  |
| 12 | Skeleton $1-5-103$ | P | L | RT | PM1 |  |  |  | 1.5 | 4 |  |  |  |  |
| 12 | Skeleton 1-5-103 | P | L | RT | PM2 |  |  |  |  | 4 |  |  |  |  |
| 12 | 1-05-9 | P | U | RT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 12 | 1-05-9 | P | U | LT | PM1 |  |  |  |  | 2 |  |  | 1 |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | Skeleton 2 | P | U | RT | M3 | X |  |  |  |  | 12 |  | 4 | Repeat |
| 12 | Skeleton $1-5-103$ | P | U | LT | PM1 |  |  |  |  | 4 |  |  |  |  |
| 12 | Skeleton $1-5-103$ | P | U | LT | C |  |  |  | 3.68 | 4 |  |  |  |  |
| 12 |  | P | U | LT | PM1 |  |  |  |  | 1 |  |  |  |  |
| 12 | 1-05-9 | P | U |  | PM |  |  |  |  | 7 |  |  |  |  |
| 12 | 1-05-9 | P | U |  | PM2 |  |  |  |  | 4 |  |  |  |  |
| 12 | 1-05-9 | P | L | RT | C |  |  |  | 2.95 | 3 |  |  |  |  |
| 12 | 1-05-9 | P | U | RT | PM1 |  |  |  | $\begin{aligned} & 1.51, \\ & 2.98 \\ & 4.33 \end{aligned}$ | 2 |  |  |  |  |
| 12 | 1-05-9 | P | U | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 12 | 1-05-9 | P | L | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 12 | 1-05-9 | P | L | RT | PM2 |  |  |  | 2.49 | 2 |  |  |  |  |
| 12 | 1-05-9 | P | L | RT | I1 |  |  |  |  | 3 |  |  |  |  |
| 12 | 1-05-9 | P | L | RT | I2 |  |  |  |  | 2 |  |  |  |  |
| 12 | 1-05-9 | P | L | RT | M1 |  |  |  |  |  | 8 |  |  |  |
| 12 | 1-05-9 | P | L |  | M3 |  |  |  |  |  | 8 |  |  |  |
| 12 | 1-05-9 | P | L | RT | M2 |  |  |  |  |  | 8 |  |  |  |
| 12 | 1-05-9 | P | L |  | M3 |  |  |  |  |  | 24 |  |  |  |
| 12 | 1-05-9 | P | U | RT | M3 |  |  |  |  |  | 8 |  |  | Repeat |
| 12 | 1-05-9 | P | U | RT | M2 |  |  |  |  |  | 8 |  |  |  |
| 12 | 1-05-9 | P | U |  | M3 |  |  |  |  |  | 24 |  |  |  |
| 12 | 1-05-9 | P | U | LT | M1 |  |  |  |  |  | 12 |  |  |  |
| 12 | 1-05-9 | P | U | RT | M1 |  |  |  |  |  | 8 |  |  |  |
| 12 | 1-05-9 | P | U | LT | M1 |  |  |  |  |  | 24 |  |  |  |
| 12 | 1-05-9 | P | U | RT | M2 |  |  |  |  |  | 24 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | 1-05-9 | P | L | LT | I1 |  |  |  |  | 2 |  |  |  |  |
| 12 | 1-05-9 | P | L | LT | I2 |  |  |  |  | 3 |  |  |  |  |
| 12 | 1-05-9 | P | U | RT | I1 |  |  |  | $\begin{array}{r} \hline 4.14, \\ 6.39 \\ \hline \end{array}$ | 2 |  |  |  | Enamel Notch |
| 12 | 1-05-9 | P | L | RT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 12 | 1-05-9 | P | L | RT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 12 | 1-05-9 | P | L | RT | M2 |  |  |  |  |  | 12 |  |  |  |
| 12 | 1-05-9 | P | U | RT | PM |  |  |  |  | 2 |  |  |  |  |
| 12 | 1-05-9 | P | U | RT | C |  |  |  | $\begin{aligned} & 1.59 \\ & 3.59 \\ & \hline \end{aligned}$ | 3 |  |  |  |  |
| 12 | 1-05-9 | P | U | RT | C |  |  |  | $\begin{gathered} \hline 2.89, \\ 3.71, \\ 5.08 \\ \hline \end{gathered}$ | 3 |  |  |  |  |
| 12 | 1-05-9 | P | U | LT | C |  |  |  | 2.39 | 2 |  |  |  |  |
| 12 | 1-05-9 | P | U | LT | M3 |  |  |  |  |  | 8 |  |  |  |
| 12 | 1-05-9 | P | U | RT | M3 |  |  |  |  |  | 8 |  |  | Repeat |
| 12 | 1-05-9 | P | U | RT | M3 |  |  |  |  |  | 8 |  |  | Repeat |
| 12 | 1-05-9 | P | L |  | M3 |  |  |  |  |  | 12 |  |  |  |
| 12 | 1-05-9 | P | U |  | M3 |  |  |  |  |  | 8 |  |  |  |
| 12 | 3-5-0101 | P | U | LT | I1 |  |  |  |  |  |  | 3.5 |  |  |
| 12 | 3-5-0101 | D | L | LT | M2 |  |  |  |  |  |  |  |  |  |
| 12 | 3-5-0101 | D | L | LT | M1 |  |  |  |  |  |  | 10.5 |  |  |
| 12 | 3-5-0101 | D | U | LT | I1 |  |  |  |  |  |  |  |  |  |
| 12 | 3-5-0101 | D | U | LT | I2 |  |  |  |  |  |  | 4.5 |  |  |
| 12 | 3-5-0101 | D | U | RT | C |  |  |  |  |  |  |  |  |  |
| 12 | 3-5-0101 | D | L | LT | C |  |  |  |  |  |  |  |  |  |
| 18 |  | P |  | RT | M3 |  |  |  |  |  | 12 |  | 1 |  |
| 19 |  | P | U | LT | I1 |  |  |  |  | 5 |  |  |  |  |
| 19 | 1-7-44 | D | U | LT | I2 |  |  |  |  |  |  | 4.5 m | 1 |  |


| Grave | Context | P vs D | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | With juvenile crania bag | D | L | LT | M1 |  |  |  |  |  |  | 2.5 | 1 |  |
| 20 | $\begin{gathered} \text { With } \\ \text { juvenile } \\ \text { crania } \\ \text { bag } \\ \hline \end{gathered}$ | D | L | LT | M2 |  |  |  |  |  |  | 2.5 |  |  |
| 20 | $\begin{gathered} \text { With } \\ \text { juvenile } \\ \text { crania } \\ \text { bag } \\ \hline \end{gathered}$ | D | L | LT | C |  |  |  |  |  |  | 5.5-6.5 | 1 |  |
| 20 | With juvenile crania bag | D | L | LT | M1 |  |  |  |  |  |  | 5.5-6.5 |  |  |
| 20 | With juvenile crania bag | D | L | LT | M2 |  |  |  |  |  |  | 5.5-6.5 |  |  |
| 20 | $\qquad$ | P | L | RT | I1 |  |  |  |  |  |  | 5.5-6.5 |  |  |
| 20 | With juvenile crania bag | D | U | LT | I2 |  |  |  |  |  |  | 5.5 | 1 |  |
| 20 | With juvenile crania bag | D | U | RT | I2 |  |  |  |  |  |  | 5.5 |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | $\qquad$ | P | U | LT | I1 |  |  |  | 3.62, 6.34, 8.56 |  |  | 4.5 | 2 |  |
| 20 | With juvenile crania bag | P | L | RT | C |  |  |  | 3.59, 6.74, 8.89 |  |  | 5.5 |  |  |
| 20 | $\begin{gathered} \text { With } \\ \text { juvenile } \\ \text { crania } \\ \text { bag } \\ \hline \end{gathered}$ | P | U | RT | M1 |  |  |  |  |  |  | 3.5 |  |  |
| 20 | $\qquad$ | D | L | RT | M1 |  |  |  |  |  |  | 10.5 |  |  |
| 20 | With juvenile crania bag | D | U | RT | M1 |  |  |  |  |  |  | 10.5 |  |  |
| 20 | With juvenile crania bag | D | L |  | I1 |  |  |  |  | 1 |  |  |  |  |
| 20 | $\begin{aligned} & \text { With } \\ & \text { juvenile } \\ & \text { crania } \\ & \text { bag } \\ & \hline \end{aligned}$ | D | L | LT | I2 |  |  |  |  |  |  | 1.5 |  |  |
| 20 | $\begin{gathered} \text { With } \\ \text { juvenile } \\ \text { crania } \\ \text { bag } \end{gathered}$ | D | U | RT | C |  |  |  |  |  |  | 2.5 |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | $\qquad$ | D | L | LT | C |  |  |  |  |  |  | 2.5 |  |  |
| 20 | With juvenile crania bag | D | L | RT | C |  |  |  |  |  |  |  |  |  |
| 20 | $\qquad$ | D | U | RT | I1 |  |  |  |  |  |  | 5.5 |  |  |
| 20 | $\qquad$ | D | U | LT | I1 |  |  |  |  |  |  |  |  | Repeat |
| 20 | With juvenile crania bag | D | U | LT | I1 |  |  |  |  |  |  |  |  | Repeat |
| 20 | $\qquad$ | D | U | RT | I2 |  |  |  |  |  |  |  |  |  |
| 20 | $\begin{aligned} & \text { With } \\ & \text { juvenile } \\ & \text { crania } \\ & \text { bag } \\ & \hline \end{aligned}$ | D | U | LT | I2 |  |  |  |  |  |  |  |  |  |
| 20 | With juvenile crania bag | D |  |  | I2 |  |  |  |  |  |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \end{gathered}$ | $\begin{gathered} \mathrm{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & \text { (mm) } \end{aligned}$ | $\begin{gathered} \text { Smith } \\ (1984) \end{gathered}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| X | $\begin{gathered} \hline \text { Bothros } \\ 6 \\ \hline \end{gathered}$ | P | U | RT | M1 |  | X |  |  |  | 20 |  | 1 |  |
| 25 | 1-9-71 | P | L | RT | M1 | X |  |  |  |  | 8 |  | 1 |  |
| 25 | 1-9-71 | P | U | RT | M1 |  |  |  |  |  | 8 |  |  |  |
| 25 | 1-9-71 | P | L | LT | C |  |  |  |  | 4 |  |  |  |  |
| 25 | 1-9-71 | P | L | RT | C |  |  |  |  | 4 |  |  | 1 |  |
| 25 | 1-9-71 | P | U | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| 25 | 1-9-71 | P | U | LT | I1 |  |  |  |  | 3 |  |  |  |  |
| 25 | 1-9-71 | P | U | LT | I2 |  |  |  |  | 3 |  |  | 1 |  |
| 25 | 1-9-71 | P | U | RT | I1 |  |  |  | 4.11 | 2 |  |  |  |  |
| 25 | 1-9-71 | P | U | RT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 25 | 1-9-71 | P | U | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 25 | 1-9-71 | P | U | LT | PM2 |  |  |  |  | 2 |  |  | 1 |  |
| 25 | 1-9-71 | P | U | LT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 25 | 1-9-71 | P | L | RT | M2 |  |  | Carabelli's Cusp |  |  | 8 |  | 1 |  |
| 25 | 1-9-71 | P | L | LT | M2 |  |  |  |  |  | 8 |  |  |  |
| 25 | 1-9-71 | P | L | RT | M2 | X | X |  |  |  | 8 |  | 1 |  |
| 25 | 1-9-71 | P | L | RT | M3 | X |  |  |  |  | 8 |  |  |  |
| 25 | $\begin{gathered} 1-9- \\ 71 / 76 \end{gathered}$ | D | U | LT | M1 |  |  |  |  |  |  |  | 1 |  |
| 25 | $\begin{gathered} 1-9- \\ 71 / 76 \end{gathered}$ | D | U | RT | M1 |  |  |  |  |  |  |  |  |  |
| 25 | 1-9-71 | P | U | LT | I1 |  |  |  |  | 8 |  |  | 3 |  |
| 25 | 1-9-71 | P | L | LT | M1 |  |  |  |  |  |  |  |  |  |
| 25 | 1-9-71 | P | L | RT | M1 |  |  |  |  |  | 4 |  |  |  |
| 25 | 1-9-71 | P | L | LT | M2 |  |  |  |  |  | 4 |  |  |  |
| 25 | 1-9-71 | P | U | RT | M1 |  |  |  | Carabe | s Cusp | 4 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | U vs L | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{gathered} \text { Smith } \\ (1984) \end{gathered}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 25 | 1-9-71 | P | U | RT | I1 |  |  |  | Shovelli ng | 1 |  |  |  |  |
| 25 | 1-9-71 | P | U | RT | I2 |  |  |  |  | 1 |  |  |  |  |
| 25 | 1-9-71 | P | L | RT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 25 | 1-9-71 | P | L | LT | PM2 |  |  |  |  |  |  | 10.5 |  | Repeat |
| 25 | 1-9-71 | P | U | RT | M2 |  |  |  |  |  | 8 |  |  |  |
| 25 | 1-9-71 | P | U | RT | PM |  |  |  |  | 2 |  |  |  |  |
| 25 | 1-9-71 | P | L |  | PM |  |  | peg- | aped | 1 |  |  |  |  |
| 25 | 1-9-71 | P |  |  | I? |  |  |  |  |  |  |  |  |  |
| 25 | $\begin{gathered} 1-9- \\ 71 / 76 \end{gathered}$ | P | L | LT | M1 |  |  |  |  |  |  | 2.5 |  |  |
| 25 | $\begin{gathered} 1-9- \\ 71 / 76 \end{gathered}$ | P | U | RT | I1 |  |  |  |  |  |  | 3.5 |  |  |
| 25 | $\begin{gathered} 1-9- \\ 71 / 76 \end{gathered}$ | P | L | RT | M2 |  |  |  |  |  |  | 7.5 |  |  |
| 25 | $\begin{gathered} 1-9- \\ 71 / 76 \end{gathered}$ | P | U | RT | I2 |  |  |  |  |  |  | 5.5 |  |  |
| 25 | $\begin{gathered} 1-9- \\ 71 / 76 \end{gathered}$ | P | L | RT | C |  |  |  |  |  |  | 4.5 |  |  |
| 25 | $\begin{gathered} 1-9- \\ 71 / 76 \\ \hline \end{gathered}$ | P | L | LT | PM2 |  |  |  |  |  |  | 7.5 |  | Repeat |
| 25 | $\begin{gathered} 1-9- \\ 71 / 76 \end{gathered}$ | D | U | RT | M2 |  |  |  |  |  |  | 9.5 |  |  |
| 25 | $\begin{gathered} \hline 1-9- \\ 71 / 76 \\ \hline \end{gathered}$ | D | L | LT | M2 |  |  |  |  |  |  |  |  |  |
| 25 | $\begin{gathered} 1-9- \\ 71 / 76 \end{gathered}$ | D | L | RT | M2 |  |  |  |  |  |  |  |  |  |
| 25 | $\begin{gathered} 1-9- \\ 71 / 76 \end{gathered}$ | D | U | LT | M1 |  |  |  |  |  |  |  |  |  |
| 25 | 1-9-71 | P | L | RT | M2 | X |  |  |  |  | 8 |  |  |  |
| 25 | 1-9-71 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  | Repeat |


| Grave | Context | P <br> vs <br> D | U vs <br> L | LT vs <br> RT | Type | Caries | Calculus | Non- <br> Metric | LEH <br> (mm) | Smith <br> $(\mathbf{1 9 8 4})$ | Scott <br> $\mathbf{( 1 9 7 9 )}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 26 | $1-9-51$ | D | L | LT | M2 |  |  |  |  |  |  | 1.5 m |  |  |
| 26 | $1-9-51$ | D | L | RT | M1 |  |  |  |  |  |  | 4.5 m |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 27 | 1-7-78 | P | L | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 27 | 1-7-78 | P | L | RT | M2 |  |  |  |  |  | 0 |  |  |  |
| 27 | 1-7-78 | P | U | RT | C |  |  |  | $\begin{gathered} \hline 2.94, \\ 5.46 \\ \hline \end{gathered}$ | 1 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | C |  |  |  |  | 1 |  |  |  | Repeat |
| 27 | 1-7-78 | P | L | RT | M1 |  |  |  |  |  | 0 |  |  |  |
| 27 | 1-7-78 | P | U | LT | I1 |  |  |  |  | 3 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | C |  |  |  | 2.41 | 1 |  |  |  | Repeat |
| 27 | 1-7-78 | P | U | RT | C |  |  |  |  | 4 |  |  |  |  |
| 27 | 1-7-78 | P | U | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | C |  |  |  | 7.85 | 1 |  |  |  | Repeat |
| 27 | 1-7-78 | P | U | LT | PM1 |  |  |  |  | 1 |  |  |  |  |
| 27 | 1-7-78 | P | U | RT | PM2 |  |  |  |  | 1 |  |  |  |  |
| 27 | 1-7-78 | P | U | RT | M2 |  |  |  |  |  | 24 |  |  |  |
| 27 | 1-7-78 | P | U | RT | PM2 |  |  |  |  | 1 |  |  |  |  |
| 27 | 1-7-78 | P | L | RT | I2 |  |  |  |  | 1 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | C |  |  |  |  | 5 |  |  |  | Repeat |
| 27 | 1-7-78 | P | U | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | M3 |  |  |  |  |  | 20 |  |  |  |
| 27 | 1-7-78 | P | U |  | PM1 |  |  |  |  | 5 |  |  |  |  |
| 27 | 1-7-78 | P | U |  | M | X |  |  |  |  | 20 |  |  |  |
| 27 | 1-7-78 | P | U | LT | M |  |  |  |  |  | 36 |  |  |  |
| 27 | 1-7-78 | P | L |  | PM2 |  |  |  |  | 6 |  |  |  |  |
| 27 | 1-7-78 | P | L | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 27 | 1-7-78 | P | L | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 27 | 1-7-78 | P | L | RT | M1 |  |  |  |  |  | 20 |  |  |  |
| 27 | 1-7-78 | P | L |  | M2 |  |  |  |  |  | 16 |  |  |  |
| 27 | 1-7-78 | P | U | RT | M2 |  |  |  |  |  | 20 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 27 | 1-7-78 | P | L | RT | I1 |  | X |  |  | 4 |  |  |  |  |
| 27 | 1-7-78 | P | L | RT | C |  |  |  |  | 5 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | I1 |  |  |  |  | 5 |  |  |  |  |
| 27 | 1-7-78 | P | L | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 27 | 1-7-78 | P | U |  | M2 |  | X |  |  |  | 36 |  |  |  |
| 27 | 1-7-78 | P | U |  | M3 |  |  |  |  |  | 8 |  |  |  |
| 27 | 1-7-78 | P | U | LT | PM1 |  | X |  | 1.14 | 5 |  |  |  |  |
| 27 | 1-7-78 | P | L | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 27 | 1-7-78 | P | U | RT | I1 |  | X |  | 2.89 | 5 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | I1 |  |  |  |  | 4 |  |  |  |  |
| 27 | 1-7-78 | P | U |  | M3 |  |  |  |  |  | 4 |  |  |  |
| 27 | 1-7-78 | P | L |  | PM2 |  |  |  |  | 2 |  |  |  |  |
| 27 | 1-7-78 | P | U | RT | I2 |  | X |  | $\begin{aligned} & 2.80 \\ & 4.26 \\ & \hline \end{aligned}$ | 5 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | C |  |  |  |  | 5 |  |  |  |  |
| 27 | 1-7-78 | P | U | RT | I2 |  |  |  |  | 2 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | C |  |  |  |  | 6 |  |  |  | Repeat |
| 27 | 1-7-78 | P | L | LT | M2 |  |  |  |  |  | 20 |  |  |  |
| 27 | 1-7-78 | P |  |  | C |  |  |  |  | 7 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | C |  | X |  | $\begin{aligned} & 2.30 \\ & 3.47 \end{aligned}$ | 5 |  |  |  |  |
| 27 | 1-7-78 | P | L |  | M |  |  |  |  |  | 36 |  |  |  |
| 27 | 1-7-78 | P | L |  | M3 | X |  |  |  |  | 12 |  |  |  |
| 27 | 1-7-78 | P | L | RT | M3 |  |  |  |  |  | 16 |  |  |  |
| 27 | 1-7-78 | P | L | RT | M2 |  |  |  |  |  | 12 |  |  |  |
| 27 | 1-7-78 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | I1 |  |  |  |  | 5 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | M3 |  |  |  |  |  | 8 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | LEH (mm) | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 27 | 1-7-78 | P | L |  | PM |  |  |  |  | 6 |  |  |  |  |
| 27 | 1-7-78 | P | U | RT | M2 |  |  |  |  | 5 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | M3 |  |  |  |  |  |  | 13.5 |  |  |
| 27 | 1-7-78 | P | U | RT | M3 |  |  |  |  |  |  | 13.5 |  |  |
| 27 | 1-7-78 | P | U | LT | M1 |  |  |  |  |  |  | 3.5 |  |  |
| 27 | 1-7-78 | P | L | RT | I2 |  |  |  |  | 5 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 27 | 1-7-78 | P | U |  | I |  |  |  |  |  |  |  |  |  |
| 27 | 1-7-78 | P | L |  | PM2 |  |  |  |  | 7 |  |  |  |  |
| 27 | 1-7-78 | P | L |  | M3 |  |  |  |  |  | 36 |  |  |  |
| 27 | 1-7-78 | P | L |  | M3 |  |  |  | 1.13 |  | 16 |  |  |  |
| 27 | 1-7-78 | P | U |  | M |  |  |  |  |  | 20 |  |  |  |
| 27 | 1-7-78 | P | U | LT | C |  |  |  |  |  |  |  |  | Repeat |
| 27 | 1-7-78 | P |  |  | M3 |  |  |  |  |  | 16 |  |  |  |
| 27 | 1-7-78 | D | L | RT | M1 |  |  |  |  |  |  |  |  |  |
| 27 | 1-7-78 | D | L | RT | M2 |  |  |  |  |  |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | M1 |  |  |  |  |  |  | 4.5 |  |  |
| 27 | 1-7-78 | P | L | RT | M1 |  |  |  |  |  |  | 4.5 |  |  |
| 27 | 1-7-78 | P | U | RT | M1 |  |  |  |  |  |  | 4.5 |  |  |
| 27 | 1-7-78 | P | L | RT | M1 |  |  |  |  |  |  | 3.5 |  |  |
| 27 | 1-7-78 | P | L | RT | M1 |  |  |  |  |  |  | 4.5 |  |  |
| 27 | 1-7-78 | D | L | RT | M2 |  |  |  |  |  |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | M2 |  |  |  |  |  | 8 |  |  |  |
| 27 | 1-7-78 | P | U | RT | M1 |  |  |  |  |  |  | 3.5 |  |  |
| 27 | 1-7-78 | P | L | RT | M1 |  |  |  |  |  |  | 3.5 |  |  |
| 27 | 1-7-78 | D | L | LT | M2 |  |  |  |  |  |  | 5.5 |  |  |
| 27 | 1-7-78 | P | L | RT | C |  |  |  |  |  |  | 4.5 |  |  |
| 27 | 1-7-78 | P | U | LT | C |  |  |  |  |  |  | 8.5 |  | Repeat |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \end{gathered}$ | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 27 | 1-7-78 | P | L | LT | M2 |  |  |  |  |  |  | 10.5 m |  |  |
| 27 | 1-7-78 | D | L | LT | M2 |  |  |  |  |  |  |  |  |  |
| 27 | 1-7-78 | D | U | RT | I1 |  |  |  |  |  |  | 1.5 |  |  |
| 27 | 1-7-78 | D | U | LT | I2 |  |  |  |  | 1 |  |  |  |  |
| 27 | 1-7-78 | P | L | RT | I1 |  |  |  |  |  |  |  |  |  |
| 27 | 1-7-78 | P | L | RT | M |  |  |  |  |  |  | 8.5 |  |  |
| 27 | 1-7-78 | D | U | RT | M2 |  |  |  |  | 5 |  |  |  |  |
| 27 | 1-7-78 | D | L | LT | C |  |  |  |  | 5 |  |  |  |  |
| 27 | 1-7-78 | D | L | RT | C |  |  |  |  |  |  |  |  |  |
| 34 | $\begin{gathered} \text { Cranium } \\ 2 \end{gathered}$ | P | U | RT | PM2 |  |  |  |  | 6 |  |  |  |  |
| 34 | $\begin{gathered} \hline \text { Cranium } \\ 2 \\ \hline \end{gathered}$ | P | U | LT | PM1 |  |  |  |  |  |  |  | 1 |  |
| 38 |  | P | U | RT | I1 |  |  |  |  | $\begin{aligned} & 3.29, \\ & 5.14 \\ & \hline \end{aligned}$ | 16 |  |  |  |
| 38 |  | P | U | LT | I1 |  |  |  |  | $\begin{gathered} 3.35, \\ 5.56 \\ \hline \end{gathered}$ | 16 |  | 1 |  |
| 38 |  | P | L | LT | PM1 |  |  |  |  | 5 |  |  |  |  |
| 38 |  | P | L | RT | PM1 |  |  |  |  | 5 |  |  | 1 |  |
| 38 |  | P | L | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 38 |  | P | L | RT | M3 |  |  |  |  |  | 4 |  | 1 |  |
| 38 |  | P | U | LT | C |  |  |  |  | 3 |  |  |  |  |
| 38 |  | P | U | LT | PM1 |  |  |  | $\begin{aligned} & \hline 2.46, \\ & 3.64 \\ & \hline \end{aligned}$ | 3 |  |  | 1 |  |
| 38 | 1-10-36 | P | L | RT | PM1 |  |  |  | 2.03 | 5 |  |  |  |  |
| 38 | 1-10-36 | P | U |  | M3 |  |  |  |  |  | 12 |  |  |  |
| 38 | 1-10-36 | P | U |  | M3 |  |  |  |  |  | 20 |  | 4 |  |
| 38 | 1-10-36 | P | L | LT | M1 |  |  |  |  |  | 32 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \mathbf{U} \mathbf{v s} \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38 |  | P | U | LT | I1 |  |  |  |  | 2 |  |  |  |  |
| 38 |  | P | U | LT | I1 |  |  |  | $\begin{aligned} & \hline 3.23, \\ & 6.24 \\ & \hline \end{aligned}$ | 5 | 8 |  |  |  |
| 38 |  | P | U | RT | I1 |  |  |  | 3.65 | 4 |  |  |  |  |
| 38 |  | P | U | RT | C |  |  |  | $\begin{aligned} & \hline 2.38, \\ & 5.09, \\ & 7.15 \end{aligned}$ | 2 |  |  |  |  |
| 38 |  | P | U | LT | I1 |  |  |  |  | 4 |  |  |  |  |
| 38 |  | P | U | RT | C |  |  |  | 3.28 | 4 |  |  |  |  |
| 38 |  | P | L | LT | C |  |  |  | $\begin{gathered} \hline 3.28, \\ 5.55 \\ \hline \end{gathered}$ | 3 |  |  |  |  |
| 38 |  | P | L | RT | C |  |  |  |  | 3 |  |  |  |  |
| 38 |  | P | L | LT | C |  |  |  | 3.63 | 3 |  |  |  |  |
| 38 |  | P |  |  | C |  |  |  |  | 7 |  |  |  |  |
| 38 |  | P | U | LT | C |  |  |  |  | 3 |  |  |  |  |
| 38 |  | P | U | RT | I2 |  |  | Sho | ling | 3 |  |  |  | Repeat |
| 38 |  | P | U |  | PM2 |  |  |  |  | 6 |  |  |  |  |
| 38 |  | P | U | LT? | I1 |  |  |  |  | 7 |  |  |  |  |
| 38 |  | P | U | RT | I2 |  |  |  | $\begin{aligned} & 1.32, \\ & 3.24 \\ & \hline \end{aligned}$ | 3 |  |  |  | Repeat |
| 38 |  | P | U | LT | I2 |  |  |  | $\begin{aligned} & 2.13 \\ & 3.78 \\ & \hline \end{aligned}$ | 2 |  |  |  |  |
| 38 |  | P | U | RT | PM1 |  |  |  | 3.71 | 3 |  |  |  |  |
| 38 |  | P | U |  | PM2 |  |  |  |  | 6 |  |  |  |  |
| 38 |  | P | L |  | PM2 |  |  |  |  | 3 |  |  |  |  |
| 38 |  | P | L | RT | PM2 |  |  |  | $\begin{aligned} & \hline 2.53, \\ & 4.64 \end{aligned}$ | 2 |  |  |  |  |
| 38 |  | P | L |  | PM2 |  |  |  |  | 5 |  |  |  |  |
| 38 |  | P | U |  | PM |  |  |  | 2.58 | 6 |  |  |  |  |
| 38 |  | P | U | LT | I1 |  |  |  |  | 7 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38 |  | P | U | RT | PM2 |  |  |  |  | 6 |  |  |  |  |
| 38 |  | P | L | RT | PM2 |  |  |  | $\begin{aligned} & 2.32, \\ & 3.90 \\ & \hline \end{aligned}$ | 6 |  |  |  |  |
| 38 |  | P | L |  | PM |  |  |  |  | 7 |  |  |  |  |
| 38 |  | P | L |  | PM |  |  |  |  | 6 |  |  |  |  |
| 38 |  | P | L | RT | C |  |  |  | $\begin{aligned} & 2.45 \\ & 4.13 \\ & \hline \end{aligned}$ | 6 |  |  |  |  |
| 38 |  | P | U |  | M3 |  |  |  |  |  | 24 |  |  |  |
| 38 |  | P | L |  | $\begin{gathered} \hline \text { M1/M } \\ 2 \\ \hline \end{gathered}$ |  |  |  |  |  | 28 |  |  |  |
| 38 |  | P | U | RT | M1 |  |  |  | elli's |  | 8 |  |  |  |
| 38 |  | P | U |  | M3 |  |  |  |  |  | 16 |  |  |  |
| 38 |  | P | U | RT | M1 |  |  |  |  |  | 12 |  |  |  |
| 38 |  | P | U | RT | M2 |  |  |  |  |  | 32 |  |  |  |
| 38 |  | P | U |  | M3 |  |  |  |  |  | 8 |  |  |  |
| 38 |  | P | U |  | M3 |  |  |  |  |  | 20 |  |  |  |
| 38 |  | P |  |  | M3 |  |  |  |  |  | 20 |  |  |  |
| 38 |  | P |  |  | M |  |  |  |  |  | 24 |  |  |  |
| 38 |  | P |  |  | M3 |  |  |  |  |  | 20 |  |  |  |
| 38 |  | P |  |  | M3 |  |  |  |  |  | 16 |  |  |  |
| 38 |  | D | L | RT | M2 |  |  |  |  |  |  | 9.5 |  |  |
| 38 |  | P | L |  | M3 |  |  |  |  |  | 20 |  |  |  |
| 38 |  | P | L | LT | M1 |  |  |  |  |  | 8 |  |  |  |
| 38 |  | P | L | RT | M1 |  |  |  |  |  | 12 |  |  |  |
| 38 |  | P | L | LT | M1 |  |  |  |  |  | 16 |  |  |  |
| 38 |  | P | L | RT | PM |  |  |  |  |  | 20 |  |  |  |
| 38 |  | P | L |  | M |  |  |  |  |  | 16 |  |  |  |
| 38 |  | P | L | LT | M2 |  |  |  |  |  | 20 |  |  |  |
| 38 |  | P | L |  | M |  |  |  |  |  | 16 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38 |  | P | L |  | M |  |  |  |  |  | 24 |  |  |  |
| 38 |  | P | L | RT | M2 |  |  |  |  |  | 24 |  |  |  |
| 38 |  | P | L |  | M |  |  |  |  |  | 28 |  |  |  |
| 38 |  | P | L |  | M |  |  |  |  |  | 36 |  |  |  |
| 38 |  | P | U | RT | I2 |  |  |  | $\begin{gathered} 1.76,3.6 \\ 9 \\ \hline \end{gathered}$ | 3 |  |  |  | Repeat |
| 38 |  | P | L | RT | I2 |  |  |  | 3.57 | 4 |  |  |  |  |
| 38 |  | P | U | RT | I2 |  |  |  | $\begin{gathered} 2.10,3.3 \\ 4 \end{gathered}$ | 3 |  |  |  | Repeat |
| 38 |  | P | U | LT | I2 |  |  | Shove | lling | 2 |  |  |  |  |
| 38 |  | P | U | LT | I2 |  |  | Shov | lling | 2 |  |  |  |  |
| 38 |  | D | L | LT | I1 |  |  |  |  |  |  | 5.5 |  |  |
| 38 |  | P | L | LT | I1 |  |  |  |  | 4 |  |  |  |  |
| 38 |  | P | L | LT | I1 |  |  |  | 3.26 | 3 |  |  |  |  |
| 38 |  | P | L | LT | I1 |  |  |  |  | 3 |  |  |  |  |
| 38 |  | P | L | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 38 |  | P | L | LT | I1 |  |  |  | 2.75 | 3 |  |  |  |  |
| 38 |  | P |  |  | I2 |  |  |  |  | 4 |  |  |  |  |
| 38 |  | P | L | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| 38 |  | P |  |  | I |  |  |  |  | 6 |  |  |  |  |
| 38 |  | P | U | RT | C |  |  |  |  | 2 |  |  |  |  |
| 38 |  | P | L | RT | I2 |  |  |  | 2.74 | 3 |  |  |  |  |
| 38 |  | P | U |  | PM2 |  |  |  |  | 6 |  |  |  |  |
| 38 |  | P | U |  | PM1 |  |  |  |  | 6 |  |  |  |  |
| 38 |  | P | L | RT | M2 |  |  |  |  |  | 16 |  |  |  |
| 38 |  | P | L |  | M2 |  |  |  |  |  | 32 |  |  |  |
| 38 |  | P |  |  | PM |  |  |  |  | 6 |  |  |  |  |
| 38 |  | P | L |  | PM |  |  |  |  | 5 |  |  |  |  |
| 38 |  | P | U |  | M2 |  |  |  |  |  | 8 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \end{gathered}$ | $\underset{\mathbf{L}}{\mathbf{U} \text { vs }}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | LEH <br> (mm) | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38 |  | P | L |  | PM2 |  |  |  |  | 4 |  |  |  |  |
| 38 |  | P | L |  | M |  |  |  |  |  | 20 |  |  |  |
| 38 |  | P | L |  | PM |  |  |  |  | 6 |  |  |  |  |
| 40 | 1-10-78 | P | U | RT | C |  |  |  |  | 2 |  |  | 1 |  |
| 40 | 1-10-78 | P | U | RT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 40 | 1-10-78 | P | U | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 40 | 1-10-78 | P | U | RT | M1 |  |  | Carabelli's Cusp |  |  | 4 |  |  |  |
| 40 | 1-10-78 | P | U |  | M3 |  |  |  |  |  | 16 |  | 1 |  |
| 40 | 1-10-78 | P | U | LT | I1 |  |  |  | 3 | 4 |  |  |  |  |
| 40 | 1-10-78 | P | U | RT | M3 |  |  |  |  |  | 4 |  |  |  |
| 40 | 1-10-78 | P | U | LT | PM1 |  |  |  |  | 1 |  |  |  |  |
| 40 | 1-10-78 | P |  | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 40 | 1-10-78 | P | U | RT | C |  |  |  |  | 7 |  |  |  |  |
| 40 | 1-10-78 | P | L |  | PM |  |  |  |  | 7 |  |  |  |  |
| 40 | 1-10-78 | P | U | LT | M2 |  |  |  |  |  | 12 |  |  |  |
| 40 | 1-10-78 | P | U | RT | M2 | X |  |  |  |  | 8 |  |  |  |
| 40 | 1-10-78 | P | L | LT | M1 |  |  |  |  |  | 4 |  |  |  |
| 40 | 1-10-78 | P | L | LT | M2 |  |  |  |  |  | 8 |  |  |  |
| 40 | 1-10-73 | P | U | LT | M1 |  |  |  |  |  |  |  |  |  |
| 41 | 1-10-94 | P | L | LT | C |  |  |  | $\begin{gathered} 2.92, \\ 5.74 \\ \hline \end{gathered}$ | 2 |  |  | 1 |  |
| 41 | 1-10-94 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 41 | 1-10-94 | P | L | LT | M1 |  |  |  |  |  | 4 |  |  |  |
| 41 | 1-10-94 | P | L | LT | M2 |  |  |  |  |  | 4 |  |  |  |
| 41 | 1-10-94 | P | U | LT | C |  |  |  |  | 3 |  |  | 1 |  |
| 41 | 1-10-94 | P | U | RT | C |  |  |  | 2.74 | 3 |  |  |  |  |
| 41 | 1-10-94 | P | L | LT | I1 |  |  |  |  | 4 |  |  | 1 |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 41 | 1-10-94 | P | L | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 41 | 1-10-94 | P | L | LT | I1 |  |  |  |  | 3 |  |  |  |  |
| 41 | 1-10-94 | P | L | LT | I2 |  |  |  | $\begin{aligned} & 1.93, \\ & 3.31, \\ & 4.42 \end{aligned}$ | 3 |  |  | 1 |  |
| 41 | 1-10-94 | P | L | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| 41 | 1-10-94 | P | L | LT | I2 |  |  |  |  | 3 |  |  | 1 |  |
| 41 | 1-10-94 | P | L | LT | I1 |  |  |  |  | 3 |  |  |  |  |
| 41 | 1-10-94 | P | U | LT | PM2 |  |  |  |  |  |  | 11.5 |  |  |
| 41 | 1-10-94 | P | U | LT | M1 |  |  |  |  |  |  | 11.5 | 1 |  |
| 41 | Skull 1 | P | L | RT | C |  |  |  | $\begin{gathered} 2.14, \\ 4.19 \\ \hline \end{gathered}$ | 4 |  |  |  |  |
| 41 | Skull 1 | P | L | RT | PM1 |  | X |  |  | 3 |  |  |  |  |
| 41 | Skull 1 | P | L | RT | PM2 |  |  |  |  | 4 |  |  | 1 |  |
| 41 | Skull 1 | P | L | RT | M1 |  |  |  |  |  | 36 |  |  |  |
| 41 | Skull 1 | P | L | RT | M2 |  |  |  |  |  | 36 |  |  |  |
| 41 | Skull 1 | P | L | RT | M3 |  |  |  |  |  | 36 |  |  |  |
| 41 | Skull 2 | P | U | RT | M1 |  |  |  |  |  | 4 |  |  |  |
| 41 | Skull 2 | P | U | RT | M2 |  |  |  |  |  | 4 |  | 1 |  |
| 41 | Skull 2 | P | L | RT | C |  |  |  | $\begin{array}{r} 4.08, \\ 6.43 \\ \hline \end{array}$ | 5 |  |  |  |  |
| 41 | Skull 2 | P | L | LT | C |  |  |  |  | 3 |  |  |  |  |
| 41 | Skull 2 | P | U | RT | I2 |  |  |  |  | 2 |  |  |  |  |
| 41 | Skull 2 | P | U | RT | PM2 | X |  |  |  | 2 |  |  |  |  |
| 41 | Skull 2 | P | L |  | PM2 |  |  |  |  | 4 |  |  |  |  |
| 41 | Skull 2 | P | U | LT | I2 |  |  |  |  | 2 |  |  |  |  |
| 41 | Skull 2 | P | L | RT | I2 |  |  |  |  | 2 |  |  |  |  |
| 41 | Skull 2 | D | U | RT | C |  |  |  |  | 2 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \end{gathered}$ | $\begin{gathered} \mathrm{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 41 | Bag: child | D | U | LT | M2 |  |  |  |  |  |  | 9.5 |  |  |
| 41 | Bag: <br> child | P | U | LT | I1 |  |  |  | 1.08, 2.4 | 4.00, 5.4 | 8.17 | 9.5 |  |  |
| 41 | Skull 1 | P | U | RT | I1 |  |  |  |  | 3 |  |  |  |  |
| 41 | Skull 1 | P | L |  | PM2 |  |  |  |  | 2 |  |  |  |  |
| 42 | 1-11-25 | P | L | RT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 42 | 1-11-25 | P | L | RT | M1 |  |  |  |  |  | 12 |  |  |  |
| 42 | 1-11-25 | P | L | RT | M2 |  |  |  |  |  | 12 |  |  |  |
| 42 | 1-11-25 | P | U | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 45 | 1-12-46 | P | L | LT | I1 |  |  |  | 4.4 | 4 |  |  |  |  |
| 45 | 1-12-46 | P | L | LT | I2 |  |  |  | 2.8, 4.16 | 4 |  |  |  |  |
| 45 | 1-12-46 | P | L | LT | C |  |  |  | $\begin{aligned} & 2.82, \\ & 4.80 \\ & \hline \end{aligned}$ | 6 |  |  |  |  |
| 45 | 1-12-46 | P | L | LT | PM1 |  |  |  | 2.17, 3.5 | 5 |  |  |  |  |
| 45 | 1-12-46 | P | L | RT | PM1 |  |  |  |  | 3 |  |  | 1 |  |
| 45 | 1-12-46 | P | L | RT | PM2 |  |  |  | 3.2 | 3 |  |  |  |  |
| 45 | 1-12-46 | P | U | RT | PM2 | X |  |  | $\begin{aligned} & \hline 2.57, \\ & 4.83 \\ & \hline \end{aligned}$ | 3 |  |  |  |  |
| 45 | 1-12-46 | P | U | RT | M1 |  |  |  |  |  | 16 |  |  |  |
| 45 | 1-12-46 | P | U | RT | I2 |  |  |  |  | 4 |  |  |  |  |
| 45 | 1-12-46 | P | U | RT | C |  |  |  |  | 4 |  |  | 1 |  |
| 45 | 1-12-46 | P | U | RT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 45 | 1-12-46 | P | U | LT | I1 |  |  |  |  | 6 |  |  |  |  |
| 45 | 1-12-46 | P | U | LT | C |  |  |  |  | 4 |  |  |  |  |
| 45 | 1-12-46 | P | U | LT | I1 |  |  |  | 3.39 | 3 |  |  |  |  |
| 45 | 1-12-46 | P | U | RT | I1 |  |  |  |  | 3 |  |  | 1 |  |
| 45 | 1-12-46 | P | U | LT | I2 |  |  |  |  | 1 |  |  | 1 |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \end{gathered}$ | $\underset{\mathbf{L}}{\mathbf{U} \text { vs }}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 45 | 1-12-46 | P | U | RT | I2 |  |  |  |  | 1 |  |  |  |  |
| 45 | 1-12-46 | P | L | LT | C |  |  |  |  | 4 |  |  | 1 |  |
| 45 | 1-12-46 | P | L | RT | C |  |  |  |  | 4 |  |  |  |  |
| 45 | 1-12-46 | P | U | LT | C |  |  |  |  |  |  |  | 1 |  |
| 45 | 1-12-46 | P | U | RT | C |  |  |  | 3.50, 5.85, 9.86 |  |  |  |  |  |
| 45 | 1-12-46 | P | U | RT | M2 |  |  |  |  | 2 |  |  | 1 |  |
| 45 | 1-12-46 | P | U | LT | M2 | X |  |  |  | 2 |  |  |  |  |
| 45 | 1-12-46 | P | U | RT | M1 |  |  | Carabelli's Cusp |  |  |  | 3.5 | 1 |  |
| 45 | 1-12-46 | P | U | LT | M1 |  |  | Carabelli's Cusp |  |  |  | 3.5 |  |  |
| 45 | Juvenile 3 | D | L | LT | I1 |  |  |  |  |  |  | 4.5m | 1 |  |
| 45 | Juvenile 3 | D | L | RT | I1 |  |  |  |  |  |  | 4.5 m |  |  |
| 45 | $\begin{gathered} \text { Juvenile } \\ 3 \\ \hline \end{gathered}$ | D | L | RT | I2 |  |  |  |  |  |  | 4.5 m |  |  |
| 45 | Juvenile 3 | D | L | LT | M2 |  |  |  |  |  |  | 7.5 | 1 |  |
| 45 | Juvenile 3 | P | L | LT | M1 |  |  |  |  |  |  | 7.5 |  |  |
| 45 | Juvenile 3 | P | L | LT | PM2 |  |  |  |  |  |  | 7.5 |  |  |
| 45 | 1-12-40 | D | L | LT | M2 |  |  |  |  |  |  | 1.5 m | 1 |  |
| 45 | 1-12-40 | D | L | LT | M1 |  |  |  |  |  |  | 1.5 m |  |  |
| 45 | 1-12-40 | D | U | LT | M1 |  |  |  |  |  |  | 4.5 m | 1 |  |
| 45 | 1-12-40 | D | U | RT | M1 |  |  |  |  |  |  | 4.5 m |  |  |
| 45 | 1-12-46 | P | L | LT | M1 |  |  |  |  |  | 0 |  | 5 |  |
| 45 | 1-12-46 | P | U | RT | M1 |  |  |  |  |  | 20 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | U vs L | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 45 | 1-12-46 | P | L | RT | C |  |  |  | $\begin{aligned} & \hline 2.37, \\ & 4.09 \\ & \hline \end{aligned}$ | 1 |  |  |  |  |
| 45 | 1-12-46 | P | L | LT | C |  |  |  |  | 2 |  |  |  |  |
| 45 | 1-12-46 | P | U | LT | C |  |  |  |  | 4 |  |  |  |  |
| 45 | 1-12-46 | P | U | RT | C |  |  |  |  | 2 |  |  |  |  |
| 45 | 1-12-46 | P | L | RT | I2 |  |  |  | $\begin{aligned} & 1.99, \\ & 4.36 \\ & \hline \end{aligned}$ | 4 |  |  |  |  |
| 45 | 1-12-46 | P | U | LT | I2 |  |  |  |  | 4 |  |  |  |  |
| 45 | 1-12-46 | P | U | RT | M1 |  |  |  |  |  | 4 |  |  |  |
| 45 | 1-12-46 | P | U | LT | M1 | X |  |  | abelli's |  | 16 |  |  |  |
| 45 | 1-12-46 | P | U | RT | M1 |  |  |  |  |  | 28 |  |  |  |
| 45 | 1-12-46 | P | U | RT | M2 |  |  |  |  |  | 0 |  |  |  |
| 45 | 1-12-46 | P | U | LT | M3 | X |  |  |  |  | 12 |  |  |  |
| 45 | 1-12-46 | P | U | LT | M3 |  |  |  | abelli's |  | 0 |  |  |  |
| 45 | 1-12-46 | P | U | LT | M3 | X |  |  |  |  | 0 |  |  |  |
| 45 | 1-12-46 | P | U | RT | M3 | X |  |  | abelli's |  | 8 |  |  |  |
| 45 | 1-12-46 | P | U | LT | PM1 |  |  |  |  |  | 12 |  |  |  |
| 45 | 1-12-46 | P | U | RT | PM2 |  |  |  |  |  | 12 |  |  | Repeat |
| 45 | 1-12-46 | P | U | RT | PM1 |  |  |  |  |  | 8 |  |  |  |
| 45 | 1-12-46 | P | U | LT | PM1 |  |  |  |  |  | 8 |  |  |  |
| 45 | 1-12-46 | P | U | LT | PM2 |  |  |  |  |  | 12 |  |  |  |
| 45 | 1-12-46 | P | U | LT | PM1 |  |  |  |  |  | 8 |  |  |  |
| 45 | 1-12-46 | P | U | RT | PM2 |  |  |  |  |  | 8 |  |  | Repeat |
| 45 | 1-12-46 | P | U | RT | PM2 |  |  |  |  |  | 16 |  |  | Repeat |
| 45 | 1-12-46 | P | U | RT | PM2 |  |  |  |  |  |  |  |  | Repeat |
| 45 | 1-12-46 | P | L | LT | M1 |  |  |  |  |  | 20 |  |  |  |
| 45 | 1-12-46 | P | L | RT | M1 |  |  |  |  |  | 8 |  |  |  |
| 45 | 1-12-46 | P | L | RT | M1 | X |  |  |  |  | 12 |  |  |  |
| 45 | 1-12-46 | P | L | RT | M2 | X |  |  |  |  | 16 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 45 | 1-12-46 | P | L | LT | M2 |  |  |  |  |  | 16 |  |  |  |
| 45 | 1-12-46 | P | L | RT | M2 |  |  |  | 2.26 |  | 12 |  |  |  |
| 45 | 1-12-46 | P | L |  | M2 |  |  |  |  |  | 20 |  |  |  |
| 45 | 1-12-46 | P | L | RT | M2 | X |  |  | 1.51 |  | 12 |  |  |  |
| 45 | 1-12-46 | P | L | RT | M3 | X |  |  |  |  | 4 |  |  |  |
| 45 | 1-12-46 | P | L | LT | M3 | X |  |  |  |  | 28 |  |  |  |
| 45 | 1-12-46 | P | L | LT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 45 | 1-12-46 | P | L |  | PM2 | X |  |  |  | 3 |  |  |  |  |
| 45 | 1-12-46 | P | L |  | M3 |  |  |  |  |  |  |  |  |  |
| 45 | 1-12-46 | P | U | LT | I1 |  |  |  |  | 5 |  |  |  |  |
| 45 | 1-12-46 | P | U |  | PM2 |  |  |  |  |  |  | 7.5 |  |  |
| 45 | 1-12-46 | D | U | RT | M2 |  |  |  |  |  |  | 7.5 |  |  |
| 45 | 1-12-46 | P | U | LT | I1 |  |  |  | 0.99 |  |  |  |  |  |
| 45 |  | P | U | LT | PM1 |  |  |  |  |  | 0 |  |  |  |
| 45 | 1-12-46 | P | U | RT | I1 |  |  | Shov | ling |  |  | 4.5 |  |  |
| 45 | 1-12-46 | P | L | RT | M1 |  |  |  |  |  |  | 3.5 |  |  |
| 45 | 1-12-46 | P | L | LT | M1 |  |  |  |  |  |  | 1.5 |  |  |
| 45 | 1-12-46 | P | L | RT | M2 |  |  |  |  |  |  | 1.5 |  |  |
| 45 | 1-12-46 | P | L | LT | M2 |  |  |  |  |  |  | 6.5 |  |  |
| 45 | 1-12-46 | P | L | RT | M3 |  |  |  |  |  |  | 13.5 |  |  |
| 45 | 1-12-46 | P | L |  | M |  |  |  |  |  |  |  |  |  |
| 45 | 1-12-46 | P | U | LT | M1 |  |  |  |  |  |  | 3.5 |  |  |
| 45 | 1-12-46 | P | U | RT | M3 |  |  |  |  |  |  | 9.5 |  |  |
| 45 | 1-12-46 | P | U |  | M3 |  |  |  |  |  |  | 9.5 |  |  |
| 45 | 1-12-46 | P | U | LT | M3 |  |  |  |  |  |  | 11.5 |  |  |
| 45 | 1-12-46 | P | U | LT | M3 |  |  |  |  |  |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 45 | 1-12-46 | P | U |  | M |  |  |  |  |  |  |  |  |  |
| 45 | 1-12-46 | P | U | RT | PM2 |  |  |  |  |  |  | 7.5 |  | Repeat |
| 45 | 1-12-46 | P | U | RT | PM1 |  |  |  |  |  |  | 6.5 |  |  |
| 45 | 1-12-46 | P | U |  | M3 |  |  |  |  |  |  | 12.5 |  |  |
| 45 | 1-12-46 | P |  |  | M |  |  |  |  |  |  |  |  |  |
| 45 | 1-12-46 | P | U | LT | C |  |  |  |  |  |  | 3.5 |  |  |
| 45 | 1-12-46 | D | U |  | M2 |  |  |  |  |  |  |  |  |  |
| 45 |  | D | L | RT | M2 |  |  |  |  |  |  |  |  |  |
| 45 |  | D | U | RT | M2 |  |  |  |  |  |  | 7.5m |  |  |
| 45 |  | D | U | RT | M1 |  |  |  |  |  |  | 4.5 m |  |  |
| 45 |  | D | L | LT | M2 |  |  |  |  |  |  | 1.5 m |  |  |
| 45 |  | D | U | RT | I2 |  |  |  |  |  |  | 1.5 m |  |  |
| 46 | 1-11-37 | D | L | LT | M1 |  |  |  |  |  |  | 7.5m | 1 |  |
| Y | 1-4-30 | P | U | LT | PM2 |  |  |  |  | 3 |  |  |  |  |
| Y | 1-4-30 | P | U | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| Y | 1-4-30 | P | U | RT | M3 |  |  |  |  |  | 4 |  | 1 |  |
| Y | 1-4-30 | P | U | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| Y | 1-4-30 | P | L | LT | I2 |  |  |  |  | 3 |  |  |  |  |
| Y | 1-4-30 | P | L | RT | I2 |  |  |  |  | 3 |  |  | 1 |  |
| Y | 1-4-30 | P | L | LT | C |  |  |  |  | 1 |  |  |  |  |
| Y | 1-4-30 | P | L | RT | C |  |  |  |  | 1 |  |  | 1 |  |
| Y | 1-10-40 | D | L | LT | M1 |  |  |  |  |  |  |  |  |  |
| Y | 1-10-40 | P | L | RT | I2 |  |  |  |  | 4 |  |  |  |  |
| Y | 2-10-12 | P | U | RT | I1 |  |  |  |  | 4 |  |  | 4 |  |
| Y | 2-10-12 | P | U | RT | C |  |  |  |  |  |  |  |  |  |
| Y | 1-4-30 | P | U | RT | I2 |  |  |  | 3.75 |  |  |  |  |  |
| Y | 1-4-30 | P | U | LT | I2 |  |  |  |  | 2 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y | 1-4-30 | P | U | RT | I1 |  |  |  |  | 7 |  |  |  |  |
| Y | 1-4-30 | P | L | LT | I2 |  |  |  |  | 3 |  |  |  |  |
| Y | 1-4-30 | P | L | LT | I1 |  |  |  |  | 3 |  |  |  |  |
| Y | 1-4-30 | P | L | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| Y | 1-4-30 | P | L | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| Y | 1-4-30 | P | U |  | I |  |  |  |  | 7 |  |  |  |  |
| Y | 1-4-30 | P | U | LT | C |  |  |  |  | 2 |  |  |  |  |
| Y | 1-4-30 | P | L | LT | C |  |  |  | 4.15 | 5 |  |  |  |  |
| Y | 1-4-30 | P | L | RT | C |  |  |  |  | 5 |  |  |  | Repeat |
| Y | 1-4-30 | P | L | RT | PM2 |  |  |  |  | 4 |  |  |  |  |
| Y | 1-4-30 | P | L | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| Y | 1-4-30 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| Y | 1-4-30 | P | U |  | PM | X |  |  |  | 7 |  |  |  |  |
| Y | 1-4-30 | P | U |  | PM2 |  |  |  |  | 6 |  |  |  |  |
| Y | 1-4-30 | P | U |  | M |  |  |  |  |  | 36 |  |  |  |
| Y | 1-4-30 | P | U |  | M |  |  |  |  |  | 36 |  |  |  |
| Y | 1-4-30 | P | U | LT | M2 |  |  |  |  |  | 16 |  |  |  |
| Y | 1-4-30 | P | L |  | M2 | X |  |  |  |  | 36 |  |  |  |
| Y | 1-4-30 | P | L | RT | M2 |  |  |  |  |  | 32 |  |  |  |
| Y | 1-4-30 | P | U |  | M3 |  |  |  |  |  | 8 |  |  |  |
| Y | 1-4-30 | P | U |  | M3 |  |  |  |  |  | 8 |  |  |  |
| Y | 1-4-30 | P | U |  | M | X |  |  |  |  | 20 |  |  |  |
| Y | 1-4-30 | P | L |  | M3 |  |  |  |  |  | 8 |  |  |  |
| Y | 1-4-30 | P | U | RT | I2 |  |  |  | $\begin{aligned} & \hline 1.66, \\ & 2.82 \\ & \hline \end{aligned}$ | 5 |  |  |  |  |
| Y | 1-4-30 | P | U | LT | I2 |  |  |  |  | 5 |  |  |  |  |
| Y | 1-4-30 | P | L | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| Y | 1-4-30 | P | L | RT | I1 |  |  |  |  | 4 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y | 1-4-30 | P | L | LT | I1 |  |  |  |  | 5 |  |  |  |  |
| Y | 1-4-30 | P | L | RT | I1 |  |  |  |  | 3 |  |  |  |  |
| Y | 1-4-30 | P | U | RT | C |  |  |  |  | 1 |  |  |  |  |
| Y | 1-4-30 | P | L | RT | C |  |  |  |  | 2 |  |  |  | Repeat |
| Y | 1-4-30 | P |  | LT | I1? |  |  |  |  | 3 |  |  |  |  |
| Y | 1-4-30 | P |  | LT | I2? |  |  |  |  | 6 |  |  |  |  |
| Y | 1-4-30 | P | L | RT | C |  |  |  | 2.81 | 5 |  |  |  | Repeat |
| Y | 1-4-30 | P | L | RT | C | X |  |  |  | 5 |  |  |  | Repeat |
| Y | 1-4-30 | P | U | RT | I1 |  |  |  |  | 6 |  |  |  |  |
| Y | 1-4-30 | P | L |  | PM |  |  |  |  | 2 |  |  |  |  |
| Y | 1-4-30 | P | L | LT | PM1 |  |  |  |  | 2 |  |  |  |  |
| Y | 1-4-30 | P | U | LT | C |  |  |  |  | 6 |  |  |  |  |
| Y | 1-4-30 | P | L | RT | PM |  |  |  |  |  |  |  |  |  |
| Y | 1-4-30 | P | L | RT | M1 |  |  |  |  |  | 8 |  |  |  |
| PLG | 1-4-31 | P | L | RT | M1 |  |  |  |  |  | 20 |  |  |  |
| PLG | 1-4-31 | P | L | RT | M2 | X |  |  |  |  | 16 |  | 1 |  |
| PLG | 1-4-31 | P | L | RT | M3 | X |  |  |  |  | 12 |  |  |  |
| PLG | 1-4-31 | P | U | RT | PM1 |  |  |  |  | 1 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | PM2 |  |  |  |  | 1 |  |  | 1 |  |
| PLG | 2-4-7 | P | L | LT | I2 |  |  |  |  |  |  | 6.5 |  |  |
| PLG | 2-4-7 | P | L | LT | C |  |  |  |  |  |  | 6.5 | 1 |  |
| PLG | 2-4-7 | P | L | RT | PM1 |  |  |  |  |  |  | 6.5 |  |  |
| PLG | 1-04-26 | P | U | LT | I1 |  |  | Shovell ing | 1.87, 3. | , 5.586 .96 | , 9.45 | 4.5 |  |  |
| PLG | 1-04-26 | P | U | RT | I1 |  |  | Shovell ing | 1.74, 3. | 5.27, 6.8 | , 9.02 | 4.5 | 1 |  |
| PLG | 1-04-26 | P | U | LT | M2 |  |  |  | abelli's |  |  | 7.5 | 1 |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | 1-04-26 | D | L | LT | C |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | PM1 |  |  |  |  |  | 24 |  |  |  |
| PLG | 1-4-31 | P | U | RT | PM2 |  |  |  |  |  | 24 |  | 1 |  |
| PLG | 1-04-26 | P | L | LT | I2 |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-04-26 | P | L | LT | I1 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-04-26 | P | L | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-04-26 | P | L | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-04-26 | P | L | RT | C |  |  |  |  | 2 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | PM2 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | M1 | X | X |  |  |  | 16 |  | 1 |  |
| PLG | 1-4-31 | P | U | RT | M2 | X |  |  |  |  | 16 |  |  |  |
| PLG | 1-4-31 | P | L | RT | PM1 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | M1 |  |  |  |  |  | 20 |  | 1 |  |
| PLG | 1-4-31 | P | L | RT | M2 |  |  |  |  |  | 8 |  |  |  |
| PLG | 1-4-31 | P | L | RT | PM2 |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | M1 |  |  |  |  |  | 40 |  | 1 |  |
| PLG | 1-4-31 | P | L | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| PLG | 1-4-31 | P | L | RT | M1 |  |  |  |  |  | 4 |  | 1 |  |
| PLG | 1-4-31 | P | L | LT | M1 |  |  |  |  |  | 4 |  |  |  |
| PLG | 1-4-31 | P | L | LT | I2 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | I1 |  |  |  |  | 4 |  |  | 1 |  |
| PLG | 1-4-31 | P | U | LT | I1 |  |  |  | 2.22 | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | I2 |  |  |  |  | 4 |  |  | 1 |  |
| PLG | 1-4-31 | P | U | RT | I1 |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | I1 |  |  |  |  | 5 |  |  | 1 |  |
| PLG | 1-4-31 | P | U | RT | I2 |  |  |  |  | 5 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \mathbf{v s} \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | 1-4-31 | P | U | RT | I1 |  |  |  |  | 6 |  |  | 1 |  |
| PLG | 1-4-31 | P | U | LT | I1 |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | I2 |  |  |  | $\begin{aligned} & 1.63 \\ & 2.70 \\ & 4.50 \end{aligned}$ | 4 |  |  | 1 |  |
| PLG | 1-4-31 | P | U | LT | I2 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | C |  |  |  |  | 4 |  |  | 1 |  |
| PLG | 1-4-31 | P | L | RT | C |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | C |  |  |  |  | 5 |  |  | 1 |  |
| PLG | 1-4-31 | P | L | RT | C |  |  |  | $\begin{gathered} 0.99 \\ 2.43 \\ \hline \end{gathered}$ | 5 |  |  |  |  |
| PLG | 1-04-28 | P | U | RT | I1 |  |  |  | 1.70, 3.63, 5.74 |  |  | 6.5 | 1 |  |
| PLG | 1-04-28 | P | U | LT | I1 |  |  |  | 1.96, 4.06, 7.58, 10.70 |  |  | 6.5 |  |  |
| PLG | 2-04-07 | D | U | LT | I2 |  |  | Shovelling |  |  |  |  | 1 |  |
| PLG | 2-04-07 | D | U | LT | I1 |  |  | Shovelling |  |  |  |  |  |  |
| PLG | $\begin{gathered} 1-4-28+ \\ 2-4-7+ \\ 1-4-31 \\ \hline \end{gathered}$ | P | L | RT | C |  |  |  |  |  |  |  | 10 |  |
| PLG | 1-4-31 | P | L | RT | PM2 | X |  |  |  |  |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | M2 |  |  |  |  |  | 20 |  |  |  |
| PLG | 1-4-31 | P | L | LT | PM1 |  |  |  |  | 2 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| PLG | 1-04-28 | P | U | LT | C |  |  |  | 2.37 | 4 |  |  |  |  |
| PLG | 1-04-28 | P | U | LT | M1 | X |  |  |  |  | 16 |  |  |  |
| PLG | 1-04-28 | P | L | RT | M2 |  |  |  |  |  | 12 |  |  |  |
| PLG | 1-04-28 | P |  |  | M3 |  |  |  |  |  | 4 |  |  |  |
| PLG | 1-04-28 | P | U | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| PLG | 1-04-28 | P | U | LT | PM1 |  |  |  |  | 1 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \text { U vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{gathered} \text { Smith } \\ (1984) \end{gathered}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | 1-04-28 | P | U |  | PM2 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-04-28 | P | L | RT | PM1 |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-04-28 | P | L | RT | PM2 |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-04-28 | P | L |  | PM |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-04-28 | P | L |  | PM2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-04-28 | P | L | LT | PM2 | X |  |  |  | 5 |  |  |  |  |
| PLG | 1-04-28 | P | L |  | M2 |  |  |  |  |  | 36 |  |  |  |
| PLG | 1-04-28 | P | L |  | M2 |  |  |  |  |  | 16 |  |  |  |
| PLG | 1-04-28 | P | U |  | M |  |  |  |  |  | 16 |  |  |  |
| PLG | 1-04-28 | P | L |  | M |  |  |  |  |  | 20 |  |  |  |
| PLG | 1-04-28 | P | L |  | M |  |  |  |  |  | 20 |  |  |  |
| PLG | 1-04-28 | P | U | RT | I1 |  |  |  | $\begin{aligned} & 2.23, \\ & 5.25, \\ & 7.45 \\ & \hline \end{aligned}$ | 5 |  |  |  | Repeat |
| PLG | 1-04-28 | P | L | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-04-28 | P | L | RT | C |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-04-28 | P | L | RT | I1 |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-54 | P | U | LT | PM1 |  |  |  | 2.64 | 2 |  |  |  |  |
| PLG | 1-04-26 | P | U | LT | C |  |  |  |  | 4.24, 6.9 |  | 5.5 |  |  |
| PLG | 1-04-26 | P | U | LT | M1 |  |  |  |  | 2.39, 3.7 |  |  |  |  |
| PLG | 1-04-26 | P | L | RT | M1 |  |  |  |  |  |  | 3.5 |  |  |
| PLG | 1-04-26 | P | U | RT | M1 |  |  |  |  |  |  | 6.5 |  |  |
| PLG | 1-04-26 | P | U | LT | PM1 |  |  |  | 2.85 | . 21 |  | 6.5 |  |  |
| PLG | 1-04-26 | P | U | LT | PM2 |  |  |  |  |  |  | 7.5 |  |  |
| PLG | 1-04-26 | P | U | RT | PM1 |  |  |  | 2.4 |  |  | 6.5 |  |  |
| PLG | 1-04-26 | P | U | RT | PM2 |  |  |  | 1.95 |  |  | 7.5 |  |  |
| PLG | 1-04-26 | P | U | LT | M2 |  |  |  |  |  |  | 7.5 |  |  |
| PLG | 1-04-26 | P | L | LT | M2 |  |  |  |  |  | 16 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \mathbf{U} \mathbf{v s} \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | 1-04-26 | P | L | LT | M |  |  |  |  |  | 36 |  |  |  |
| PLG | 1-04-26 | P | L | RT | I1 |  |  |  |  |  |  | 6.5 |  |  |
| PLG | 1-04-26 | P | L | LT | M2 | X |  |  |  |  | 4 |  |  |  |
| PLG | 1-04-26 | P | U | LT | M1 | X |  |  |  |  | 20 |  |  |  |
| PLG | 1-04-26 | P | L |  | PM2 |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-04-26 | P | U | RT | I1 |  |  |  |  | 5 |  |  |  | Repeat |
| PLG | 1-04-26 | P | U | RT | I2 |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-04-20 | P | L |  | M2 |  |  |  |  |  | 32 |  |  |  |
| PLG | 1-04-20 | P | U | LT | C |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-04-20 | P | L | RT | PM2 |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-04-20 | P | L | RT | C |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | M1 |  |  |  |  |  | 4 |  |  |  |
| PLG | 1-4-31 | P | U |  | M | X |  |  |  |  | 36 |  |  |  |
| PLG | 1-4-31 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| PLG | 1-4-31 | P | L |  | PM2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | L |  | PM | X |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | M1 |  |  |  |  |  | 12 |  |  |  |
| PLG | 1-4-31 | P | L | LT | M1 | X |  |  |  |  | 16 |  |  |  |
| PLG | 1-4-31 | P | L | RT | M2 |  |  |  |  |  | 20 |  |  |  |
| PLG | 1-4-31 | P | L | LT | M2 |  |  |  |  |  | 24 |  |  |  |
| PLG | 1-4-31 | P | L | LT | I2 |  |  |  |  | 1 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | I1 |  |  |  |  | 5 |  |  |  | Repeat |
| PLG | 1-4-31 | P | U | LT | M2 |  |  |  |  |  | 0 |  |  |  |
| PLG | 1-4-31 | P | U |  | M | X |  |  |  |  | 20 |  |  |  |
| PLG | 1-4-31 | P | U |  | M3 | X |  |  |  |  | 16 |  |  |  |
| PLG | 1-4-31 | P | U |  | M3 |  |  |  |  |  | 16 |  |  |  |
| PLG | 1-4-31 | P | U |  | M3 |  |  |  |  |  | 16 |  |  |  |
| PLG | 1-4-31 | P | U | RT | M1 |  |  |  |  |  | 4 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \end{gathered}$ | $\underset{\mathbf{L}}{\mathbf{U} \text { vs }}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | 1-4-31 | P | U | LT | M2? | X |  |  |  |  | 24 |  |  |  |
| PLG | 1-4-31 | P | U |  | M2 |  |  |  |  |  | 20 |  |  |  |
| PLG | 1-4-31 | P | U | LT | M3 |  |  |  |  |  | 0 |  |  |  |
| PLG | 1-4-31 | P | U |  | M |  |  |  |  |  | 36 |  |  |  |
| PLG | 1-4-31 | P | U |  | M |  |  |  |  |  | 24 |  |  |  |
| PLG | 1-4-31 | P | U | RT | M3 |  |  |  | abelli's |  | 8 |  |  |  |
| PLG | 1-4-31 | P | U | LT | M3 |  |  |  |  |  | 4 |  |  |  |
| PLG | 1-4-31 | P | U | LT | M3 |  |  |  |  |  | 4 |  |  |  |
| PLG | 1-4-31 | P | U | RT | M3 |  |  |  |  |  | 16 |  |  |  |
| PLG | 1-4-31 | P |  |  | M3 | X |  |  |  |  | 0 |  |  |  |
| PLG | 1-4-31 | P | U |  | M3 |  |  |  |  |  | 0 |  |  |  |
| PLG | 1-4-31 | P | L |  | M3 |  |  |  |  |  | 4 |  |  |  |
| PLG | 1-4-31 | P | U | RT | M3 |  |  |  | belli's C |  | 8 |  |  |  |
| PLG | 1-4-31 | P | U | RT | M3 |  |  |  |  |  | 16 |  |  |  |
| PLG | 1-4-31 | P | L | LT | M3 |  |  |  |  |  | 12 |  |  |  |
| PLG | 1-4-31 | P | L |  | M3 |  |  |  |  |  | 8 |  |  |  |
| PLG | 1-4-31 | P |  |  | M3 | X |  |  |  |  | 8 |  |  |  |
| PLG | 1-4-31 | P | L | LT | M3 |  |  |  |  |  | 8 |  |  |  |
| PLG | 1-4-31 | P | L | LT | M2 |  |  |  |  |  | 20 |  |  |  |
| PLG | 1-4-31 | P | L | LT | M2 |  |  |  |  |  | 12 |  |  |  |
| PLG | 1-4-31 | P | L | RT | M2 | X |  |  |  |  | 12 |  |  |  |
| PLG | 1-4-31 | P | L | LT | M2 | X |  |  |  |  | 8 |  |  |  |
| PLG | 1-4-31 | P |  |  | M |  |  |  |  |  | 16 |  |  |  |
| PLG | 1-4-31 | P | L | RT | M1 |  |  |  |  |  | 12 |  |  |  |
| PLG | 1-4-31 | P | L | RT | M1 |  |  |  |  |  | 32 |  |  |  |
| PLG | 1-4-31 | P | L | RT | M1 |  |  |  |  |  | 36 |  |  |  |
| PLG | 1-4-31 | P | L | RT | M1 |  |  |  |  |  | 20 |  |  |  |
| PLG | 1-4-31 | P | L | RT | I1 |  |  |  | 2.09 |  |  | 6.5 |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \end{gathered}$ | $\underset{\mathbf{L}}{\mathbf{U} \text { vs }}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | 1-4-31 | P | L | RT | I2 |  | X |  |  |  |  | 6.5 |  |  |
| PLG | 1-4-31 | P | L | RT | I2 |  |  |  | 2.83 | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | I2 |  |  |  | 4.75 | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | I1 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | I1 |  |  |  |  |  |  |  |  |  |
| PLG | 1-4-31 | P | L |  | I1 |  |  |  |  | 7 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | I2 |  |  |  |  | 1 |  |  |  |  |
| PLG | 1-4-31 | P | L |  | I |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | L |  | I |  |  |  |  | 7 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | I | X |  |  | 3.94 | 7 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | I1 |  |  |  |  | 3 |  |  |  | Repeat |
| PLG | 1-4-31 | P | U | LT | I1 |  |  |  | 3.11 | 2 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | I1 |  |  |  |  | 1 |  |  |  | Repeat |
| PLG | 1-4-31 | P | U |  | I1 |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | I1 |  |  |  |  | 3 |  |  |  | Repeat |
| PLG | 1-4-31 | P | U | LT | I1 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | I1 |  |  |  |  | 5 |  |  |  | Repeat |
| PLG | 1-4-31 | P | U | RT | I1 |  |  | Sho | ing | 3 |  |  |  | Repeat |
| PLG | 1-4-31 | P | U | RT | I1 |  |  |  |  | 5 |  |  |  | Repeat |
| PLG | 1-4-31 | P | U | RT | I1 |  |  |  |  | 5 |  |  |  | Repeat |
| PLG | 1-4-31 | P | U | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | I2 |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | C |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | I2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | I2 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | I2 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | I2 | X |  |  | 2.78 | 5 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | NonMetric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{gathered} \text { Smith } \\ (1984) \end{gathered}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | 1-4-31 | P | U |  | I |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | I2 |  |  |  | 4.25 | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | C |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | C |  |  |  | $\begin{aligned} & \hline 2.58, \\ & 3.65 \\ & \hline \end{aligned}$ | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | C |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | I2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | D | L | RT | C |  |  |  | 3.21 |  |  | 8.5 |  |  |
| PLG | 1-4-31 | P | U | LT | C |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | C |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | C |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | C |  |  |  | $\begin{gathered} 2.46, \\ 5.70 \end{gathered}$ | 5 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | C |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | C |  |  |  | $\begin{gathered} \hline 2.78, \\ 3.65, \\ 5.56 \end{gathered}$ | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | C |  |  |  | 4.56 | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | C |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | C |  |  |  | 4.46 | 5 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | C |  |  |  |  | 2 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | C |  |  |  | 2.52 | 3 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | C |  |  |  |  | 2 |  |  |  |  |
| PLG | 1-4-31 | P | U |  | C? |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | C |  |  |  | $\begin{aligned} & 2.06, \\ & 3.00 \\ & 6.43 \\ & \hline \end{aligned}$ | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | C |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | C |  |  |  |  | 2 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{aligned} & \text { LEH } \\ & (\mathrm{mm}) \end{aligned}$ | $\begin{aligned} & \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | 1-4-31 | P | L | LT | C |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | C |  |  |  | $\begin{gathered} 2.44, \\ 3.76 \\ \hline \end{gathered}$ | 6 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | C |  |  |  |  | 1 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | C |  |  |  | $\begin{gathered} 2.22, \\ 22.78, \\ 4.44 \end{gathered}$ | 1 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | C |  |  |  |  | 1 |  |  |  |  |
| PLG | 1-4-31 | P | L |  | PM2 |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | PM2 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L |  | PM2 |  |  |  | 2.62 | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | L |  | PM |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | PM |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | L |  | PM2 |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | L |  | PM | X |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | PM1 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | PM2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P |  |  | PM |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P |  |  | PM |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| PLG | 1-4-31 | P | L | RT | PM |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | PM1 |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | U |  | PM2 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | PM1 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U |  | PM2 |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | PM1 |  |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | PM2 |  |  |  |  | 3 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \mathbf{D} \end{gathered}$ | $\underset{\mathbf{L}}{\mathbf{U} \text { vs }}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | 1-4-31 | P | U | LT | PM2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P |  |  | PM |  |  |  |  | 7 |  |  |  |  |
| PLG | 1-4-31 | P | U | RT | PM2 |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-31 | P | U |  | PM |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | L | LT | PM |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-4-31 | P | U |  | PM2 |  |  |  | 2.48 | 5 |  |  |  |  |
| PLG | 1-4-31 | P | U |  | PM2 | X |  |  |  | 4 |  |  |  |  |
| PLG | 1-4-31 | P | L |  | PM |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-31 | P | U | LT | PM1 |  |  |  |  |  |  | 11.5 |  |  |
| PLG | 1-4-31 | P | U | LT | PM1 |  |  |  |  |  |  | 11.5 |  |  |
| PLG | 1-4-31 | P | U |  | PM |  |  |  |  | 2 |  |  |  |  |
| PLG | 1-4-31 | P |  |  | PM |  |  |  |  | 5 |  |  |  |  |
| PLG | 1-4-31 | P | U |  | PM |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-4-31 | P | U |  | PM2 |  |  |  |  | 6 |  |  |  |  |
| PLG | 1-04-28 | P | U | LT | M1 |  |  |  |  | 2.9, 3.6 |  | 6.5 |  |  |
| PLG | 1-04-28 | P | L | RT | M2 |  |  |  |  |  |  | 11.5 |  |  |
| PLG | 1-04-28 | P | L | LT | C |  |  |  | $1.35,2 .$ | $\begin{aligned} & 3.7,4.6 \\ & 9.37 \\ & \hline \end{aligned}$ | $6.54,$ | 5.5 |  |  |
| PLG | 1-04-28 | P | U | RT | C |  |  |  | 1.97 | 2, 4.99, |  | 7.5 |  |  |
| PLG | 1-04-28 | P | L | RT | PM1 |  |  |  |  |  |  | 10.5 |  |  |
| PLG | 1-04-28 | P | L | LT | PM2 |  |  |  |  |  |  | 10.5 |  |  |
| PLG | 1-04-28 | P | U |  | M3 |  |  |  |  |  |  | 16.5 |  |  |
| PLG | 1-04-28 | P | U | RT | M3 |  |  |  |  |  |  | 13.5 |  |  |
| PLG | 2-04-07 | D | U | RT | M2 |  |  |  |  |  |  | 1.5 |  |  |
| PLG | 2-04-07 | D | U | RT | M2 |  |  |  | abelli's |  |  |  |  |  |
| PLG | 2-04-07 | D | L | LT | M2 |  |  |  |  |  |  |  |  |  |
| PLG | 2-04-07 | D | U | LT | M2 |  |  |  |  |  |  |  |  |  |
| PLG | 2-04-07 | D | U | RT | M2 |  |  |  |  |  |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \\ \text { vs } \\ \text { D } \end{gathered}$ | $\begin{gathered} \mathbf{U} \text { vs } \\ \mathbf{L} \end{gathered}$ | $\begin{aligned} & \text { LT vs } \\ & \text { RT } \end{aligned}$ | Type | Caries | Calculus | Non- <br> Metric | $\begin{gathered} \text { LEH } \\ (\mathrm{mm}) \end{gathered}$ | $\begin{aligned} & \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | 2-04-07 | D | U | RT | M1 |  |  |  |  |  |  | 8.5 |  |  |
| PLG | 2-04-07 | D | L | RT | M2 |  |  |  |  |  |  |  |  |  |
| PLG | 2-04-07 | D | L | LT | M1 |  |  |  |  |  |  |  |  |  |
| PLG | 2-04-07 | D | U | RT | M1 |  |  |  |  |  |  | 8.5 |  |  |
| PLG | 2-04-07 | D | U | RT | I1 |  |  |  |  |  |  |  |  |  |
| PLG | 2-04-07 | D | U | LT | I1 |  |  |  |  |  |  | 8.5 |  |  |
| PLG | 2-04-07 | D | U | LT | M1 |  |  |  |  |  |  | 10.5 m |  |  |
| PLG | 2-04-07 | D | U | LT | M2 |  |  |  |  |  |  |  |  |  |
| PLG | 2-04-07 | D | U | RT | I2 |  |  |  |  |  |  | 6.5 |  |  |
| PLG | 2-04-07 | D | L | RT | M2 |  |  |  |  |  |  | 10.5 m |  |  |
| PLG | 2-04-07 | P | L | LT | PM2 |  |  |  |  |  |  | 5.5 |  |  |
| PLG | 2-04-07 | P | U | RT | I1/I2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 2-04-07 | P | U | LT | I1/I2 |  |  | Shovell ing | 1.5,3.63 | 2 |  |  |  |  |

Table 1. Full inventory of loose, unassociated teeth from Ismenion Hill. Red boxes represent individuals. Smith (1984) wear scores fall within 1-8, light to heavy. Scott (1979) wear score sums fall within 0-40, light to heavy. Under notes, "repeat" identifies teeth that are used to calculate MLNI as they are the highest repeated tooth type within that grave. Under LATD, m=months. Under notes, "SRA" identifies teeth with Short Root Anomaly. PLG=parking lot grave; $\mathrm{P}=$ permanent; $\mathrm{D}=$ deciduous; $\mathrm{U}=$ upper; $\mathrm{L}=$ lower; $\mathrm{LT}=$ left; $\mathrm{RT}=$ right; $\mathrm{X}=$ present; LATD=London Atlas of Tooth Development; MLNI=minimum likely number of individuals; LEH=linear enamel hypoplasia; $m=$ months.

| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{array}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | Youngest Individual | P | L | RT | M3 |  |  |  |  |  | 4 |  | 1 |  |
| 4 | Youngest Individual | P | L | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 4 | Youngest Individual | P | L | RT | M1 |  |  |  |  |  | 4 |  |  |  |
| 4 | Youngest Individual | P | L | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 4 | Youngest Individual | P | L | RT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 4 | Youngest Individual | P | L | RT | C |  |  |  |  | 2 |  |  |  |  |
| 4 | Youngest Individual | P | L | RT | I2 |  |  |  |  | 2 |  |  |  |  |
| 4 | Youngest Individual | P | L | LT | I2 |  |  |  |  | 2 |  |  |  |  |
| 4 | Youngest Individual | P | L | LT | C |  |  |  |  | 2 |  |  |  |  |
| 4 | Youngest Individual | P | L | LT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 4 | Youngest Individual | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 4 | Youngest Individual | P | L | LT | M1 |  |  |  |  |  | 4 |  |  |  |
| 4 | Youngest Individual | P | L | LT | M2 |  |  |  |  | 1 |  |  |  |  |
| 4 | Older Individual | P | L | RT | M3 |  | X |  |  |  | 16 |  | 1 |  |
| 4 | Older Individual | P | L | RT | M2 |  | X |  |  |  | 16 |  |  |  |
| 4 | Older Individual | P | L | RT | M1 |  | X |  |  |  | 16 |  |  |  |
| 4 | Older Individual | P | L | RT | PM2 |  | X |  | 1.27, 2.19 | 2 |  |  |  |  |
| 4 | Older Individual | P | L | RT | PM1 |  | X |  |  | 2 |  |  |  |  |
| 4 | Older Individual | P | L | RT | C |  | X |  |  | 2 |  |  |  |  |
| 4 | Older Individual | P | L | RT | I2 |  | X |  |  | 2 |  |  |  |  |
| 4 | Older Individual | P | L | LT | C |  |  |  | 4.35, 4.94 | 2 |  |  |  |  |
| 4 | Older Individual | P | L | LT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 4 | Older Individual | P | L | LT | PM2 |  |  |  | 1.41, 2.00 | 2 |  |  |  |  |
| 4 | Older Individual | P | L | LT | M1 |  | X |  |  |  | 16 |  |  |  |
| 4 | Older Individual | P | L | LT | M2 |  |  |  |  |  | 16 |  |  |  |
| 4 | Older Individual | P | L | LT | M3 |  |  |  |  |  | 16 |  |  |  |
| 4 | Odd Maxilla | P | U | RT | M3 |  |  |  |  |  | 4 |  | 1 |  |
| 4 | Odd Maxilla | P | U | RT | M2 |  |  |  |  |  | 4 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \text { vs } \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & \text { (1984) } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \\ \hline \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | Odd Maxilla | P | U | RT | M1 |  |  |  |  |  | 12 |  |  |  |
| 4 | Odd Maxilla | P | U | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 4 | Odd Maxilla | P | U | RT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 4 | Odd Maxilla | P | U | RT | C |  |  |  |  | 2 |  |  |  |  |
| 4 | Odd Maxilla | P | U | LT | C |  |  |  |  | 2 |  |  |  | loose |
| 4 | Odd Maxilla | P | U | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 4 | Odd Maxilla | P | U | LT | M1 |  |  |  |  |  | 16 |  |  |  |
| 4 | Odd Maxilla | P | U | LT | M2 |  |  |  |  |  | 8 |  |  |  |
| 4 | Odd Maxilla | P | U | LT | M3 |  |  |  |  |  | 8 |  |  |  |
| 12 |  | P | U | RT | M3 |  | X |  |  |  | 16 |  |  |  |
| 12 |  | P | U | RT | PM2 |  | X |  |  | 4 |  |  |  |  |
| 12 |  | P | U | RT | I2 |  | X |  |  | 4 |  |  |  |  |
| 12 |  | P | U | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 12 |  | P | U | LT | I1 |  |  |  |  | 4 |  |  |  |  |
| 12 |  | P | U | LT | I2 |  |  |  |  | 4 |  |  |  |  |
| 12 |  | P | U | LT | C |  |  |  |  | 4 |  |  |  |  |
| 12 |  | P | U | LT | PM1 |  |  |  | 1.37, 3.05 | 4 |  |  |  |  |
| 12 |  | P | L | RT | M2 |  | X |  |  |  | 16 |  |  |  |
| 12 |  | P | L | RT | M1 | X | X |  |  |  | 16 |  |  |  |
| 12 |  | P | L | RT | PM2 |  | X |  |  | 4 |  |  | 1 |  |
| 12 |  | P | L | RT | PM1 |  | X |  |  | 4 |  |  |  |  |
| 12 |  | P | L | RT | C |  | X |  |  | 4 |  |  |  |  |
| 12 |  | P | L | RT | I2 |  | X |  |  | 4 |  |  |  |  |
| 12 |  | P | L | RT | I1 |  | X |  |  | 4 |  |  |  |  |
| 12 |  | P | L | LT | I1 |  | X |  |  | 4 |  |  |  |  |
| 12 |  | P | L | LT | I2 |  |  |  |  | 4 |  |  |  |  |
| 12 |  | P | L | LT | C |  |  |  | 1.57, 2.71, 5.69 | 4 |  |  |  |  |
| 12 |  | P | L | LT | PM1 |  |  |  | 2.54, 3.86 | 4 |  |  |  |  |
| 12 |  | P | L | LT | PM2 |  |  |  | 3.37 | 4 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \text { Pvs } \\ \text { D } \end{gathered}$ | $\begin{array}{\|c} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{array}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & \text { (1984) } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \\ \hline \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 |  | P | L | LT | M1 | X |  |  |  |  | 16 |  |  |  |
| 12 | Skeleton 3 | P | L | RT | M2 |  |  |  |  |  | 12 |  | 1 |  |
| 12 | Skeleton 3 | P | L | RT | M1 |  |  |  |  |  | 12 |  |  |  |
| 12 | Skeleton 3 | P | L | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 12 | Skeleton 3 | P | L | LT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 12 | Skeleton 3 | P | L | LT | M1 | X |  |  |  |  | 12 |  |  |  |
| 12 | Skeleton 3 | P | L | LT | M2 | X |  |  |  |  | 12 |  |  |  |
| 12 | Skeleton 3 | P | L | LT | M3 |  |  |  |  |  | 12 |  |  |  |
| 12 | Skeleton 5 | P | U | RT | I1 |  |  |  |  | 3 |  |  |  | Loose |
| 12 | Skeleton 5 | P | U | LT | I2 |  |  |  | 2.07 | 3 |  |  |  |  |
| 12 | Skeleton 5 | P | U | LT | C |  |  |  | 2.37 | 3 |  |  |  |  |
| 12 | Skeleton 5 | P | L | RT | M1 |  |  |  |  |  | 16 |  |  |  |
| 12 | Skeleton 5 | P | L | RT | PM2 |  | X |  | 1.01, 2.45 | 3 |  |  |  |  |
| 12 | Skeleton 2 | P | U | RT | PM1 |  |  |  |  | 3 |  |  | 1 |  |
| 12 | Skeleton 2 | P | U | RT | C |  |  |  |  | 3 |  |  |  |  |
| 12 | Skeleton 2 | P | U | RT | I1 |  |  |  |  | 3 |  |  |  |  |
| 12 | Skeleton 2 | P | U | LT | I1 |  |  |  |  | 3 |  |  |  |  |
| 12 | Skeleton 2 | P | U | LT | I2 |  |  |  |  | 3 |  |  |  |  |
| 12 | Skeleton 2 | P | U | LT | C |  |  |  |  | 3 |  |  |  |  |
| 12 | Skeleton 2 | P | U | LT | PM1 |  |  |  |  |  |  |  |  |  |
| 12 | Skeleton 2 | P | U | LT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 12 | Skeleton 2 | P | U | LT | M1 |  |  |  |  |  | 8 |  |  |  |
| 12 | Skeleton 2 | P | U | LT | M2 | X |  |  |  |  | 8 |  |  |  |
| 12 | Skeleton 2 | P | U | LT | M3 |  |  |  |  |  | 8 |  |  |  |
| 12 | Skeleton 2 | P | L | LT | I1 |  |  |  |  | 3 |  |  |  |  |
| 12 | Skeleton 2 | P | L | LT | I2 |  |  |  |  | 3 |  |  |  |  |
| 12 | Skeleton 2 | P | L | LT | C |  |  |  | 3.16 | 3 |  |  |  |  |
| 12 | Skeleton 2 | P | L | LT | PM1 |  |  |  |  | 3 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathrm{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | NonMetric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | Skeleton 2 | P | L | LT | M2 |  |  |  |  |  | 12 |  |  |  |
| 19 | Youngest Adult | P | U | RT | M2 |  | X |  |  |  |  |  | 1 |  |
| 19 | Youngest Adult | P | U | RT | M1 |  | X |  |  |  |  |  |  |  |
| 19 | Youngest Adult | P | U | RT | PM2 |  | X |  |  |  |  |  |  |  |
| 19 | Youngest Adult | P | U | RT | PM1 |  | X |  |  |  |  |  |  |  |
| 19 | Youngest Adult | P | U | RT | C |  | X |  |  |  |  |  |  |  |
| 19 | Youngest Adult | P | U | LT | I2 |  | X |  | 2.52, |  |  |  |  |  |
| 19 | Youngest Adult | P | U | LT | C |  | X |  |  |  |  |  |  |  |
| 19 | Youngest Adult | P | U | LT | PM1 |  | X |  |  |  |  |  |  |  |
| 19 | Youngest Adult | P | U | LT | PM2 |  | X |  |  |  |  |  |  |  |
| 19 | Youngest Adult | P | U | LT | M1 |  | X |  |  |  |  |  |  |  |
| 19 | Youngest Adult | P | U | LT | M3 |  | X |  |  |  |  |  |  |  |
| 19 | Youngest Adult | P | L | RT | M3 |  | X |  |  |  | 4 |  |  |  |
| 19 | Youngest Adult | P | L | RT | M2 |  | X |  |  |  | 4 |  |  |  |
| 19 | Youngest Adult | P | L | RT | M1 | X | X |  |  |  | 4 |  |  |  |
| 19 | Youngest Adult | P | L | RT | PM2 |  | X |  |  | 2 |  |  |  |  |
| 19 | Youngest Adult | P | L | RT | C |  | X |  |  | 2 |  |  |  |  |
| 19 | Youngest Adult | P | L | RT | I2 |  | X |  |  | 2 |  |  |  |  |
| 19 | Youngest Adult | P | L | LT | C |  | X |  |  | 2 |  |  |  |  |
| 19 | Youngest Adult | P | L | LT | PM1 |  | X |  |  | 2 |  |  |  |  |
| 19 | Youngest Adult | P | L | LT | PM2 |  | X |  |  | 2 |  |  |  |  |
| 19 | Youngest Adult | P | L | LT | M1 | X | X |  |  |  | 4 |  |  |  |
| 19 | Youngest Adult | P | L | LT | M2 |  | X |  |  |  | 4 |  |  |  |
| 19 | Youngest Adult | P | L | LT | M3 |  | X |  |  |  | 4 |  |  |  |
| 19 | Juvenile | D | U | RT | M2 |  |  |  |  |  |  |  |  |  |
| 19 | Juvenile | D | U | RT | M1 |  |  |  |  |  |  |  |  |  |
| 19 | Juvenile | D | U | RT | C |  |  |  |  |  |  |  | 1 |  |
| 19 | Juvenile | D | U | RT | I2 |  |  |  |  |  |  |  |  | loose |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | NonMetric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Scott } \\ (1979) \end{array}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19 | Juvenile | D | U | RT | I1 |  |  |  |  |  |  |  |  | loose |
| 19 | Juvenile | D | U | LT | C |  |  |  |  |  |  |  |  |  |
| 19 | Juvenile | D | U | LT | M1 |  |  |  |  |  |  |  |  |  |
| 19 | Juvenile | D | U | LT | M2 |  |  |  |  |  |  |  |  |  |
| 19 | Juvenile | D | L | LT | M2 |  |  |  |  |  |  |  |  | loose |
| 19 | Juvenile | P | U | LT | M1 |  |  |  |  |  |  |  |  |  |
| 19 | Skeleton 7B | P | U | LT | C |  |  |  | 0.93, 1.97, 3.19 | 3 |  |  |  |  |
| 19 | Skeleton 7B | P | U | LT | PM1 |  | X |  |  | 3 |  |  | 1 |  |
| 19 | Skeleton 7B | P | U | LT | PM2 |  | X |  |  | 3 |  |  | 1 |  |
| 19 | Skeleton 7B | P | U | LT | M1 |  | X |  |  |  | 16 |  |  |  |
| 19 | Skeleton 7B | P | L | RT | M3 |  |  |  |  |  | 12 |  |  |  |
| 19 | Skeleton 7B | P | L | RT | M2 |  |  |  |  |  | 12 |  |  |  |
| 19 | Skeleton 7B | P | L | RT | PM2 |  | X |  |  | 3 |  |  |  | loose |
| 19 | Skeleton 7B | P | L | RT | C |  | X |  | 1.09, 3.24, 4.33 | 3 |  |  |  | loose |
| 19 | Skeleton 7B | P | L | LT | I1 |  | X |  |  | 4 |  |  |  | loose |
| 19 | Skeleton 7B | P | L | LT | I2 |  | X |  | 1.24, 2.10, 2.59 | 4 |  |  |  | loose |
| 19 | Skeleton 7B | P | L | LT | C |  |  |  | 2.87, 3.86 | 4 |  |  |  |  |
| 19 | Skeleton 7B | P | L | LT | PM1 |  | X |  |  | 3 |  |  |  |  |
| 19 | Skeleton 7B | P | L | LT | M2 |  |  |  |  |  | 8 |  |  |  |
| 19 | Skeleton 3 | P | U | LT | I2 |  |  |  |  | 1 |  |  |  | loose |
| 19 | Skeleton 3 | P | U | LT | PM1 |  |  |  |  | 1 |  |  |  |  |
| 19 | Skeleton 3 | P | U | LT | PM2 |  |  |  |  | 1 |  |  |  |  |
| 19 | Skeleton 3 | P | U | LT | M1 |  |  |  |  |  | 4 |  |  |  |
| 19 | Skeleton 3 | P | U | LT | M2 |  |  |  |  |  | 4 |  | 1 |  |
| 19 | Skeleton 3 | P | L | RT | M2 |  | X |  |  |  | 4 |  |  |  |
| 19 | Skeleton 3 | P | L | RT | M1 |  |  |  |  |  | 4 |  |  | loose |
| 19 | Skeleton 3 | P | L | RT | I1 |  |  |  |  | 2 |  |  |  | loose |
| 19 | Skeleton 3 | P | L | LT | M1 |  |  |  |  |  | 4 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \mathbf{v s} \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{array}{r} \text { Scott } \\ (1979) \\ \hline \end{array}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19 | Skeleton 3 | P | L | LT | M2 |  |  |  |  |  | 4 |  |  |  |
| 19 | Skeleton 3 | P | U | LT | I1 |  |  |  |  | 2 |  |  |  |  |
| 19 | Skeleton 4 | P | U | RT | M3 |  |  |  |  |  | 4 |  |  |  |
| 19 | Skeleton 4 | P | U | RT | M2 |  | X |  |  |  | 4 |  | 1 |  |
| 19 | Skeleton 4 | P | U | RT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 19 | Skeleton 4 | P | U | LT | I2 |  |  |  |  | 4 |  |  |  | loose |
| 19 | Skeleton 4 | P | U | LT | C |  |  |  |  | 5 |  |  |  |  |
| 19 | Skeleton 4 | P | U | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 19 | Skeleton 4 | P | U | LT | M2 |  |  |  |  |  | 4 |  |  |  |
| 19 | Skeleton 4 | P | U | LT | M3 |  |  |  |  |  | 4 |  |  |  |
| 19 | Skull 5 | P | U | RT | M2 |  |  |  |  |  | 36 |  | 1 |  |
| 19 | Skull 5 | P | U | RT | M1 |  | X |  |  |  | 36 |  |  |  |
| 19 | Skull 5 | P | U | RT | C |  | X |  |  |  |  |  |  | loose |
| 19 | Skull 5 | P | U | RT | I1 |  |  |  |  |  |  |  |  | loose |
| 19 | Skull 5 | P | U | LT | I1 |  |  |  |  |  |  |  |  |  |
| 19 | Skull 5 | P | U | LT | PM1 |  | X |  |  | 6 |  |  |  |  |
| 19 | Skull 5 | P | U | LT | M2 |  | X |  |  |  | 28 |  |  |  |
| 19 | Skull 5 | P | L | RT | M2 | X |  |  |  |  | 32 |  |  |  |
| 19 | Skull 5 | P | L | RT | M1 | X |  |  |  |  | 32 |  |  |  |
| 19 | Skull 5 | P | L | RT | PM2 | X |  |  |  | 5 |  |  |  |  |
| 19 | Skull 5 | P | L | RT | PM1 |  |  |  |  | 5 |  |  |  |  |
| 19 | Skull 5 | P | L | RT | C |  | X |  | 2.63, 5.08 | 5 |  |  |  |  |
| 19 | Skull 5 | P | L | RT | I2 |  |  |  | 2.35 | 5 |  |  |  |  |
| 19 | Skull 5 | P | L | RT | I1 |  |  |  |  | 5 |  |  |  |  |
| 19 | Skull 5 | P | L | LT | I1 |  | X |  |  | 5 |  |  |  |  |
| 19 | Skull 5 | P | L | LT | I2 |  | X |  |  | 5 |  |  |  |  |
| 19 | Skull 5 | P | L | LT | C |  | X |  | 2.69, 3.87 | 5 |  |  |  |  |
| 19 | Skull 5 | P | L | LT | PM1 |  | X |  | 2.16 | 5 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathrm{D} \\ \hline \end{gathered}$ | $\begin{array}{\|c} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{array}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Scott } \\ (1979) \\ \hline \end{array}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19 | Skull 5 | P | L | LT | PM2 |  | X |  |  | 5 |  |  |  |  |
| 19 | Skull 5 | P | L | LT | M1 |  | X |  |  |  | 32 |  |  |  |
| 19 | Skull 5 | P | L | LT | M2 |  |  |  |  |  | 32 |  |  |  |
| 19 | Skeleton 11 | P | L | RT | M3 |  | X |  |  |  | 16 |  | 1 |  |
| 19 | Skeleton 11 | P | L | RT | M2 | X |  |  |  |  | 16 |  | 1 |  |
| 19 | Skeleton 11 | P | L | RT | PM1 |  | X |  | 3.81 | 4 |  |  |  | loose |
| 19 | Skeleton 11 | P | L | RT | PM2 |  | X |  |  | 3 |  |  |  | loose |
| 19 | Skeleton 11 | P | L | RT | C |  | X |  | 3.77 | 4 |  |  |  | loose |
| 19 | Skeleton 11 | P | L | RT | I2 |  | X |  |  | 3 |  |  |  | loose |
| 19 | Skeleton 11 | P | L | RT | I1 |  | X |  | 2.84 | 3 |  |  |  | loose |
| 19 | Skeleton 11 | P | L | LT | I1 |  | X |  |  | 3 |  |  |  | loose |
| 19 | Skeleton 11 | P | L | LT | C |  | X |  | 2.93 | 2 |  |  |  |  |
| 19 | Skeleton 11 | P | L | LT | PM1 |  | X |  | 3.15 | 2 |  |  |  |  |
| 19 | Skeleton 11 | P | L | LT | PM2 | X | X |  |  | 3 |  |  |  |  |
| 19 | Skeleton 11 | P | L | LT | M1 |  | X |  |  |  | 20 |  |  |  |
| 19 | Skeleton 11 | P | L | LT | M2 | X | X |  |  |  | 8 |  |  |  |
| 19 | Skeleton 11 | P | L | LT | M3 |  | X |  |  |  | 8 |  |  |  |
| 19 | Skull 12 | P | U | RT | M2 |  |  |  |  |  | 24 |  |  |  |
| 19 | Skull 12 | P | U | RT | M1 |  |  |  |  |  | 28 |  |  |  |
| 19 | Skull 12 | P | U | RT | PM2 |  |  |  |  | 6 |  |  |  | loose |
| 19 | Skull 12 | P | U | RT | I1 |  |  |  |  | 4 |  |  |  | loose |
| 19 | Skull 12 | P | U | LT | I1 |  |  |  |  | 4 |  |  |  |  |
| 19 | Skull 12 | P | U | LT | I2 |  | X |  |  | 3 |  |  | 1 |  |
| 19 | Skull 12 | P | U | LT | C |  | X |  |  | 3 |  |  |  |  |
| 19 | Skull 12 | P | L | RT | M3 |  | X |  |  |  | 20 |  |  |  |
| 19 | Skull 12 | P | L | RT | M2 |  | X |  |  |  | 24 |  |  |  |
| 19 | Skull 12 | P | L | RT | M1 |  |  |  |  |  | 28 |  |  |  |
| 19 | Skull 12 | P | L | RT | PM2 |  |  |  |  | 5 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \text { vs } \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & \text { (1984) } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \\ \hline \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19 | Skull 12 | P | L | RT | PM1 |  | X |  |  |  |  |  |  |  |
| 19 | Skull 12 | P | L | RT | C |  | X |  |  | 4 |  |  |  |  |
| 19 | Skull 12 | P | L | RT | I2 |  | X |  |  | 3 |  |  |  |  |
| 19 | Skull 12 | P | L | RT | I1 |  |  |  |  |  |  |  |  |  |
| 19 | Skull 12 | P | L | LT | I1 |  | X |  |  | 3 |  |  |  |  |
| 19 | Skull 12 | P | L | LT | I2 |  | X |  |  | 3 |  |  |  |  |
| 19 | Skull 12 | P | L | LT | C |  | X |  |  | 3 |  |  |  |  |
| 19 | Skull 12 | P | L | LT | PM1 |  | X |  |  | 3 |  |  |  |  |
| 19 | Skull 12 | P | L | LT | PM2 |  | X |  |  | 3 |  |  |  |  |
| 19 | Skull 12 | P | L | LT | M1 |  | X |  |  |  | 20 |  |  |  |
| 19 | Skull 12 | P | L | LT | M2 |  | X |  |  |  | 20 |  |  |  |
| 19 | Skull 12 | P | L | LT | M3 |  | X |  |  |  | 16 |  |  |  |
| 19 | Skeleton 13 | P | U | RT | M3 |  | X |  |  |  | 4 |  | 1 |  |
| 19 | Skeleton 13 | P | U | RT | M3 |  | X |  |  |  | 4 |  |  |  |
| 19 | Skeleton 13 | P | U | RT | M1 |  | X |  |  |  | 4 |  |  |  |
| 19 | Skeleton 13 | P | U | RT | I2 |  |  |  |  |  |  |  |  |  |
| 19 | Skeleton 13 | P | U | LT | I1 |  |  |  | 2.28, 2.78, 4.07 | 4 |  |  |  |  |
| 19 | Skeleton 13 | P | U | LT | I2 |  |  |  | 2.87, 3.54, 4.20 | 2 |  |  |  |  |
| 19 | Skeleton 13 | P | U | LT | C |  | X |  | 2.64, 3.47, 4.07 | 2 |  |  |  |  |
| 19 | Skeleton 13 | P | U | LT | PM1 |  | X |  |  | 2 |  |  |  |  |
| 19 | Skeleton 13 | P | U | LT | PM2 |  | X |  |  | 2 |  |  |  |  |
| 19 | Skeleton 13 | P | U | LT | M1 | X | X |  |  |  | 16 |  |  |  |
| 19 | Skeleton 13 | P | U | LT | M2 |  | X |  |  |  | 8 |  |  |  |
| 19 |  | P | U | RT | M3 |  | X |  |  |  | 16 |  |  |  |
| 19 |  | P | U | RT | M2 |  | X |  |  |  | 16 |  |  |  |
| 19 |  | P | U | RT | M1 |  | X |  |  |  | 16 |  | 1 |  |
| 19 |  | P | U | RT | PM2 |  | X |  |  | 3 |  |  |  |  |
| 19 |  | P | U | RT | PM1 |  | X |  |  | 3 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | NonMetric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Scott } \\ (1979) \end{array}$ | LATD | MLNI | Notes |
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| 19 |  | P | U | RT | C |  | X |  |  | 3 |  |  |  |  |
| 19 |  | P | U | RT | I2 |  | X |  |  | 3 |  |  |  |  |
| 19 |  | P | U | RT | I1 |  | X |  |  | 3 |  |  |  |  |
| 19 |  | P | U | LT | I1 |  | X |  |  | 3 |  |  |  |  |
| 19 |  | P | U | LT | I2 |  | X |  |  | 3 |  |  |  |  |
| 19 |  | P | U | LT | C |  | X |  |  | 3 |  |  |  |  |
| 19 |  | P | U | LT | PM1 |  | X |  |  | 3 |  |  |  |  |
| 19 |  | P | U | LT | PM2 |  | X |  |  | 3 |  |  |  |  |
| 19 |  | P | U | LT | M1 |  | X |  |  |  | 8 |  |  |  |
| 19 |  | P | U | LT | M2 |  | X |  |  |  | 8 |  |  |  |
| 19 |  | P | L | RT | M3 |  | X |  |  |  | 8 |  |  |  |
| 19 |  | P | L | RT | M2 |  | X |  |  |  | 8 |  |  |  |
| 19 |  | P | L | RT | M1 |  | X |  |  |  | 16 |  |  |  |
| 19 |  | P | L | RT | C |  | X |  |  | 3 |  |  |  |  |
| 19 |  | P | L | RT | I2 |  | X |  |  | 4 |  |  |  |  |
| 19 |  | P | L | RT | I1 |  | X |  |  | 4 |  |  |  |  |
| 19 |  | P | L | LT | I1 |  | X |  |  | 5 |  |  |  |  |
| 19 |  | P | L | LT | I2 |  | X |  |  | 5 |  |  |  |  |
| 19 |  | P | L | LT | C |  | X |  |  | 5 |  |  |  |  |
| 19 |  | P | L | LT | PM1 |  | X |  |  | 4 |  |  |  |  |
| 19 |  | P | L | LT | PM2 |  | X |  |  | 3 |  |  |  |  |
| 19 |  | P | L | LT | M1 |  | X |  |  |  | 20 |  |  |  |
| 19 |  | P | L | LT | M2 |  | X |  |  |  | 16 |  |  |  |
| 20 | Skeleton A "Younge Female" | P | U | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skeleton A "Younge Female" | P | U | RT | M1 |  |  |  |  |  | 4 |  | 1 |  |
| 20 | Skeleton A "Younge Female" | P | U | RT | PM2 |  |  |  |  | 1 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathrm{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{array}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & \text { (1984) } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \\ \hline \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Skeleton A "Younge Female" | P | U | RT | PM1 |  |  |  |  | 1 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | U | RT | C |  |  |  |  |  |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | U | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | U | RT | I1 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | U | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | U | LT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | U | LT | M1 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skeleton A "Younge Female" | P | U | LT | M2 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skeleton A "Younge Female" | P | L | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skeleton A "Younge Female" | P | L | RT | M1 |  |  |  |  |  | 8 |  |  |  |
| 20 | Skeleton A "Younge Female" | P | L | RT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | L | RT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | L | RT | C |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | L | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | L | RT | I1 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | L | LT | I1 |  |  |  |  | 2 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | L | LT | I2 |  |  |  |  | 2 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \text { P vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{array}{\|c} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{array}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Scott } \\ (1979) \\ \hline \end{array}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Skeleton A "Younge Female" | P | L | LT | PM2 |  |  |  |  | 1 |  |  |  |  |
| 20 | Skeleton A "Younge Female" | P | L | LT | M1 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skeleton A "Younge Female" | P | L | LT | M2 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skull B | P | U | RT | M3 |  |  |  |  |  | 8 |  |  |  |
| 20 | Skull B | P | U | RT | M2 |  |  |  |  |  | 8 |  |  |  |
| 20 | Skull B | P | U | RT | M1 | X |  |  |  |  | 16 |  | 1 |  |
| 20 | Skull B | P | U | RT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skull B | P | U | RT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skull B | P | U | RT | C |  |  |  |  | 3 |  |  |  |  |
| 20 | Skull B | P | U | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skull B | P | U | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 20 | Skull B | P | U | LT | I1 |  |  |  |  | 4 |  |  |  |  |
| 20 | Skull B | P | U | LT | I2 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skull B | P | U | LT | C |  |  |  |  | 3 |  |  |  |  |
| 20 | Skull B | P | U | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skull B | P | U | LT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skull B | P | U | LT | M1 |  |  |  | abelli's Cusp |  | 12 |  |  |  |
| 20 | Skull B | P | U | LT | M2 |  |  |  |  |  | 12 |  |  |  |
| 20 | Skull B | P | U | LT | M3 |  |  |  |  |  | 8 |  |  |  |
| 20 | Skull B | P | L | RT | M3 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skull B | P | L | RT | M2 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skull B | P | L | RT | M1 |  |  |  |  |  | 16 |  |  |  |
| 20 | Skull B | P | L | RT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 20 | Skull B | P | L | RT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skull B | P | L | LT | I1 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skull B | P | L | LT | I2 |  |  |  | 2.9 | 3 |  |  |  |  |
| 20 | Skull B | P | L | LT | C |  |  |  | 1.91, 3.41, 5.04 | 2 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \text { vs } \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & \text { (1984) } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Skull B | P | L | LT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 20 | Skull B | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 20 | Skull B | P | L | LT | M1 |  |  |  |  |  | 12 |  |  |  |
| 20 | Skull B | P | L | LT | M2 |  |  |  |  |  | 8 |  |  |  |
| 20 | Skull B | P | L | LT | M3 |  |  |  |  |  | 8 |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | U | RT | M2 |  | X |  |  |  | 12 |  |  |  |
| 20 | $\begin{gathered} \text { Skeleton } 2 \mathrm{C} \\ \text { "Largest Male" } \\ \hline \end{gathered}$ | P | U | RT | PM2 |  |  |  | 1.57 | 6 |  |  | 1 |  |
| 20 | $\begin{gathered} \text { Skeleton } 2 \mathrm{C} \\ \text { "Largest Male" } \end{gathered}$ | P | U | RT | PM1 |  | X |  | 2.67, 3.32 | 4 |  |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | U | RT | C |  |  |  | 2.50, 3.74 | 5 |  |  |  |  |
| 20 | $\begin{gathered} \text { Skeleton } 2 \mathrm{C} \\ \text { "Largest Male" } \\ \hline \end{gathered}$ | P | U | RT | I2 | X | X |  |  | 4 |  |  |  |  |
| 20 | $\begin{gathered} \text { Skeleton } 2 \mathrm{C} \\ \text { "Largest Male" } \\ \hline \end{gathered}$ | P | U | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 20 | $\begin{gathered} \text { Skeleton } 2 \mathrm{C} \\ \text { "Largest Male" } \\ \hline \end{gathered}$ | P | U | LT | I1 |  | X |  |  | 4 |  |  |  |  |
| 20 | $\begin{gathered} \text { Skeleton } 2 \mathrm{C} \\ \text { "Largest Male" } \\ \hline \end{gathered}$ | P | U | LT | I2 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | U | LT | M2 |  | X |  |  |  | 16 |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | RT | M3 |  | X |  |  |  | 12 |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | RT | M2 | X | X |  |  |  | 12 |  |  |  |
| 20 | $\begin{gathered} \text { Skeleton } 2 \mathrm{C} \\ \text { "Largest Male" } \end{gathered}$ | P | L | RT | M1 | X |  |  |  |  | 24 |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | RT | PM2 |  | X |  | 2.64, 3.35 | 3 |  |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | RT | PM1 |  | X |  | 0.94, 2.22 | 3 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathrm{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{array}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ \text { (1979) } \\ \hline \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Skeleton 2 C "Largest Male" | P | L | RT | C |  | X |  |  | 4 |  |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | RT | I2 |  | X |  |  | 5 |  |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | RT | I1 |  | X |  |  | 5 |  |  |  |  |
| 20 | $\begin{gathered} \text { Skeleton } 2 \mathrm{C} \\ \text { "Largest Male" } \\ \hline \end{gathered}$ | P | L | LT | I1 |  | X |  |  | 5 |  |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | LT | I2 |  | X |  |  | 5 |  |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | LT | C |  | X |  |  | 4 |  |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | LT | PM1 |  | X |  |  | 4 |  |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | LT | PM2 |  | X |  |  | 3 |  |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | LT | M1 |  | X |  |  |  | 20 |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | LT | M2 |  | X |  |  |  | 20 |  |  |  |
| 20 | Skeleton 2 C "Largest Male" | P | L | LT | M3 |  | X |  |  |  | 16 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | RT | M3 |  | X |  | 1.66 |  | 16 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | RT | M2 |  | X |  | 1.54 |  | 16 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | RT | M1 |  | X |  | 2.7 |  | 20 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | RT | PM2 |  |  |  | 2.19, |  | 24 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | RT | PM1 |  |  |  | 1.14, |  | 20 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | RT | C |  |  |  | 1.81, 3.2 |  | 20 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathrm{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \\ \hline \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Skeleton D "2nd Largest Male" | P | U | RT | I2 |  |  |  | 2.03, 4.50 |  | 16 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | RT | I1 |  |  |  | 2.20, 3.46 |  | 20 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | LT | I2 |  |  |  | 2.30, 4.20 |  | 16 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | LT | C |  |  |  | 2.25, 3.58 |  | 16 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | LT | PM1 |  |  |  | 2.53, 4 |  | 16 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | LT | PM2 |  |  |  | 2.12, 3 |  | 20 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | U | LT | M1 |  |  |  | 2.08, 4 |  | 24 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | L | RT | M2 |  | X |  | 2.03 |  | 20 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | L | RT | M1 |  | X |  | 1.88 |  | 20 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | L | RT | PM1 |  |  |  | 1.78, 3.80 | 4 |  |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | L | RT | C |  |  |  | 2.07, 3.89, 6.34 | 3 |  |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | L | LT | C |  |  |  | 2.27, 4.15, 6.34 | 3 |  |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | L | LT | PM2 |  | X |  | 2.04, 3.35 | 3 |  |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | L | LT | M1 |  | X |  | 1.90, 2 |  | 24 |  |  |  |
| 20 | Skeleton D "2nd Largest Male" | P | L | LT | M2 |  | X |  | 2.24 |  | 20 |  |  |  |
| 20 | Skeleton E | P | U | RT | M3 |  | X |  |  |  | 4 |  |  |  |
| 20 | Skeleton E | P | U | RT | M2 |  | X |  |  |  | 4 |  | 1 |  |
| 20 | Skeleton E | P | U | RT | M1 |  | X |  |  |  | 4 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \mathbf{v s} \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | NonMetric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Skeleton E | P | U | RT | PM2 |  | X |  |  | 2 |  |  |  |  |
| 20 | Skeleton E | P | U | RT | PM1 |  | X |  |  | 2 |  |  |  |  |
| 20 | Skeleton E | P | U | RT | C |  | X |  |  | 2 |  |  |  |  |
| 20 | Skeleton E | P | U | RT | I2 |  | X |  |  | 2 |  |  |  |  |
| 20 | Skeleton E | P | U | LT | I1 |  |  |  | 2.50, 3.82 | 2 |  |  |  |  |
| 20 | Skeleton E | P | U | LT | I2 |  |  |  |  | 2 |  |  |  |  |
| 20 | Skeleton E | P | U | LT | C |  |  |  | 1.73, 3.06 | 2 |  |  |  |  |
| 20 | Skeleton E | P | U | LT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 20 | Skeleton E | P | U | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 20 | Skeleton E | P | U | LT | M1 |  | X |  |  |  | 8 |  |  |  |
| 20 | Skeleton E | P | U | LT | M2 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skeleton E | P | U | LT | M3 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skeleton F | P | L | RT | M3 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skeleton F | P | L | RT | M3 |  |  |  |  |  | 4 |  |  |  |
| 20 | Skeleton F | P | L | RT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton F | P | L | RT | PM1 |  |  |  | 3.12 | 3 |  |  |  |  |
| 20 | Skeleton F | P | L | RT | C |  | X |  | 2.40, 3.34, 6.43 | 2 |  |  |  |  |
| 20 | Skeleton F | P | L | RT | I2 |  | X |  |  | 3 |  |  |  |  |
| 20 | Skeleton F | P | L | RT | I1 |  | X |  |  | 4 |  |  |  |  |
| 20 | Skeleton F | P | L | LT | I1 |  | X |  |  | 3 |  |  |  |  |
| 20 | Skeleton F | P | L | LT | I2 |  | X |  | 3.31, 4.09 | 3 |  |  |  |  |
| 20 | Skeleton F | P | L | LT | C |  |  |  | 2.58, 3.61, 6.74 | 3 |  |  |  |  |
| 20 | Skeleton F | P | L | LT | PM1 |  | X |  |  | 3 |  |  |  |  |
| 20 | Skeleton F | P | L | LT | PM2 |  | X |  | 1.26 | 3 |  |  |  |  |
| 20 | Skeleton F | P | L | LT | M2 |  | X |  |  |  | 8 |  |  |  |
| 20 | Skeleton F | P | L | LT | M3 |  | X |  |  |  | 8 |  |  |  |
| 20 | Skeleton 1 G <br> "Woman with exostoses" | P | U | RT | M2 |  | X |  |  | 2 |  |  | 1 |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathrm{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Skeleton 1 G <br> "Woman with exostoses" | P | U | RT | M1 |  | X |  |  | 3 |  |  |  |  |
| 20 | Skeleton 1 G <br> "Woman with exostoses" | P | U | RT | PM1 |  | X |  |  | 4 |  |  |  |  |
| 20 | Skeleton 1 G <br> "Woman with exostoses" | P | U | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 20 | Skeleton 1 G <br> "Woman with exostoses" | P | U | LT | I2 |  |  |  |  | 2 |  |  |  |  |
| 20 | Skeleton 1 G <br> "Woman with exostoses" | P | U | LT | C |  | X |  |  | 2 |  |  |  |  |
| 20 | Skeleton 1 G "Woman with exostoses" | P | U | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 20 | Skeleton 1 G <br> "Woman with exostoses" | P | U | LT | M1 |  |  |  |  |  | 20 |  |  |  |
| 20 | Juvenile "A" | D | U | LT | M2 |  |  | Carabelli's Cusp |  |  |  | 6.5 | 1 |  |
| 20 | Juvenile "A" | D | U | LT | C |  |  |  |  |  |  | 6.5 |  | loose |
| 20 | Juvenile "A" | D | U | RT | C |  |  |  |  |  |  | 6.5 |  | loose |
| 20 | Juvenile "A" | D | U | RT | M1 |  |  |  |  |  |  | 6.5 |  |  |
| 20 | Juvenile "A" | D | U | RT | M2 |  |  |  |  |  |  | 6.5 |  |  |
| 20 | Juvenile "A" | D | L | LT | M2 |  |  |  |  |  |  | 6.5 |  |  |
| 20 | Juvenile "A" | D | L | LT | M1 |  |  |  |  |  |  | 6.5 |  |  |
| 20 | Juvenile "A" | D | L | RT | M1 |  |  |  |  |  |  | 6.5 |  |  |
| 20 | Juvenile "A" | D | L | RT | M2 |  |  |  |  |  |  | 6.5 |  |  |
| 20 | Juvenile "A" | P | U | RT | M2 |  |  |  |  |  |  | 6.5 |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | NonMetric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & \text { (1984) } \\ & \hline \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Scott } \\ \text { (1979) } \end{array}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | Juvenile "A" | P | U | RT | M1 |  |  |  |  |  |  | 6.5 |  |  |
| 20 | Juvenile "A" | P | U | RT | I1 |  |  |  |  |  |  | 6.5 |  | Loose |
| 20 | Juvenile "A" | P | U | LT | I1 |  |  |  | 1=3.57; | 75; 3=10.2 |  | 6.5 |  | Loose |
| 20 | Juvenile "A" | P | U | LT | M1 |  |  |  |  |  |  | 6.5 |  |  |
| 20 | Juvenile "A" | P | L | RT | M1 |  |  |  | elli's Cusp |  |  | 6.5 |  |  |
| 20 | Juvenile "A" | P | L | RT | I1 |  |  |  |  |  |  | 6.5 |  |  |
| 20 | Juvenile "A" | P | L | LT | I1 |  |  |  |  |  |  | 6.5 |  |  |
| 20 | Juvenile "A" | P | L | LT | M1 |  |  |  |  |  |  | 6.5 |  |  |
| 25 | 1-9-71 | P | L | RT | M1 |  | X |  |  |  | 4 |  | 1 |  |
| 25 | 1-9-71 | P | L | RT | PM2 |  | X |  |  | 2 |  |  |  |  |
| 25 | 1-9-71 | P | L | RT | PM1 |  | X |  |  | 2 |  |  |  |  |
| 25 | 1-9-71 | P | L | RT | C |  | X |  | 3.98 | 2 |  |  |  |  |
| 25 | 1-9-71 | P | L | LT | PM2 |  | X |  | 2.06 | 3 |  |  |  |  |
| 25 | 1-9-71 | P | L | LT | M1 | X | X |  | 2.16 |  | 12 |  |  |  |
| 25 | 1-9-71 | P | L | LT | M2 |  | X |  |  |  | 8 |  |  |  |
| 25 | 1-9-71 | P | L | LT | M3 |  | X |  |  |  | 4 |  |  |  |
| 25 | 1-9-71 | P | L | RT | PM1 |  | X |  |  | 5 |  |  |  |  |
| 25 | 1-9-71 | P | L | RT | C |  | X |  |  | 6 |  |  |  |  |
| 25 | 1-9-71 | P | L | RT | I2 |  |  |  |  | 8 |  |  |  |  |
| 25 | 1-9-71 | P | L | LT | I1 |  |  |  |  | 8 |  |  |  |  |
| 25 | 1-9-71 | P | L | LT | I2 |  |  |  |  | 8 |  |  |  |  |
| 25 | 1-9-71 | P | L | LT | C |  | X |  |  | 7 |  |  | 1 |  |
| 25 | 1-9-71 | P | L | LT | PM1 |  | X |  |  | 5 |  |  |  |  |
| 25 | 1-9-71 | P | L | LT | PM2 |  | X |  |  | 5 |  |  |  |  |
| 25 | 1-9-71 | P | L | LT | M1 |  |  |  |  |  | 24 |  |  |  |
| 25 | 1-9-71 | P | L | LT | M2 | X |  |  |  |  | 16 |  |  |  |
| 25 | 1-9-71 | P | L | LT | M3 | X |  |  |  |  | 12 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | NonMetric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Scott } \\ (1979) \end{array}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 25 | Skeleton 6 "Child 6 months" | D | L | RT | M2 |  |  |  |  |  |  | 10.5 m | 1 |  |
| 25 | Skeleton 6 "Child 6 months" | D | L | RT | M1 |  |  |  |  |  |  | 10.5 m |  |  |
| 25 | Skeleton 6 "Child 6 months" | D | L | RT | I2 |  |  |  |  |  |  | 10.5 m |  |  |
| 25 | Skeleton 6 "Child 6 months" | D | L | RT | I1 |  |  |  |  |  |  | 10.5 m |  |  |
| 25 | Skeleton 6 "Child 6 months" | D | L | LT | I1 |  |  |  |  |  |  | 10.5 m |  |  |
| 25 | Skeleton 6 "Child 6 months" | D | L | LT | I2 |  |  |  |  |  |  | 10.5 m |  |  |
| 25 | Skeleton 6 "Child 6 months" | D | L | LT | C |  |  |  |  |  |  | 10.5 m |  |  |
| 25 | Skeleton 6 "Child 6 months" | D | L | LT | M1 |  |  |  |  |  |  | 10.5 m |  |  |
| 25 | Skeleton 6 "Child 6 months" | D | L | LT | M2 |  |  |  |  |  |  | 10.5 m |  |  |
| 26 | cranium 4 | P | U | LT | PM1 | X |  |  | 1.71, 3.33, 4.50 | 2 |  |  | 1 |  |
| 26 | cranium 4 | P | U | LT | PM2 |  |  |  | 2.11, 4.38 | 2 |  |  |  |  |
| 26 | cranium 4 | P | U | LT | M1 |  |  |  | 1.73 |  | 12 |  |  |  |
| 26 | cranium 4 | P | U | LT | M2 |  |  |  | 3.07 |  | 12 |  |  |  |
| 26 | cranium 4 | P | U | LT | M3 |  |  |  | 2.12 |  | 12 |  |  |  |
| 26 | Cranium 1 | P | U | RT | M3 |  | X |  | 2.84 |  |  |  | 1 |  |
| 26 | Cranium 1 | P | U | RT | PM2 |  |  |  | 1.95 |  |  |  |  |  |
| 26 | Cranium 1 | P | U | RT | PM1 |  |  |  |  |  |  |  |  |  |
| 26 | Cranium 1 | P | U | RT | C |  |  |  | 1.45 |  |  |  |  |  |
| 26 | Cranium 1 | P | U | RT | I2 |  |  |  |  |  |  |  |  | loose |
| 26 | Cranium 1 | P | U | LT | M1 | X | X |  |  |  |  |  |  |  |
| 26 | Cranium 1 | P | U | LT | M2 |  |  |  | 2.42 |  |  |  |  |  |
| 26 | Cranium 1 | P | L | RT | M3 |  |  |  |  |  | 28 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \text { vs } \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Scott } \\ (1979) \end{array}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 26 | Cranium 1 | P | L | RT | M2 |  |  |  |  |  | 16 |  |  |  |
| 26 | Cranium 1 | P | L | RT | M1 | X |  |  |  |  | 16 |  |  |  |
| 26 | Cranium 1 | P | L | RT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 26 | Cranium 1 | P | L | RT | PM1 |  |  |  | 1.61, 3.28 | 3 |  |  |  |  |
| 26 | Cranium 1 | P | L | RT | C |  |  |  | 2.85, 4.83 | 5 |  |  |  |  |
| 26 | Cranium 1 | P | L | RT | I2 |  |  |  | 2.50, 3.94 | 3 |  |  |  |  |
| 26 | Cranium 1 | P | L | RT | I1 |  |  |  | 2.00, 3.73 | 3 |  |  |  |  |
| 26 | Cranium 1 | P | L | LT | I1 | X |  |  |  | 6 |  |  |  |  |
| 26 | Cranium 1 | P | L | LT | C | X |  |  | 2.06, 3. |  |  |  |  |  |
| 26 | Cranium 1 | P | L | LT | PM1 | X |  |  | 2.62 | 3 |  |  |  |  |
| 26 | Cranium 1 | P | L | LT | PM2 |  |  |  | 1.81 | 3 |  |  |  |  |
| 26 | Cranium 1 | P | L | LT | M1 | X |  |  | 2.74 |  | 16 |  |  |  |
| 26 | Cranium 2 | P | U | RT | M3 |  | X |  |  |  | 0 |  |  |  |
| 26 | Cranium 2 | P | U | RT | M2 | X | X |  |  |  | 16 |  | 1 |  |
| 26 | Cranium 2 | P | U | RT | M1 |  |  |  |  |  | 16 |  |  |  |
| 26 | Cranium 2 | P | U | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 26 | Cranium 2 | P | U | RT | C |  |  |  |  | 3 |  |  |  |  |
| 26 | Cranium 2 | P | U | RT | I2 |  |  |  |  | 2 |  |  |  |  |
| 26 | Cranium 2 | P | U | RT | I1 |  |  |  |  | 2 |  |  |  |  |
| 26 | Cranium 2 | P | U | LT | I1 |  |  |  |  | 2 |  |  |  |  |
| 26 | Cranium 2 | P | U | LT | I2 |  |  |  |  | 3 |  |  |  |  |
| 26 | Cranium 2 | P | U | LT | PM1 |  | X |  |  | 3 |  |  |  |  |
| 26 | Cranium 2 | P | U | LT | PM2 |  | X |  |  | 2 |  |  |  |  |
| 26 | Cranium 2 | P | U | LT | M1 |  |  |  |  |  | 16 |  |  |  |
| 26 | Cranium 2 | P | U | LT | M2 |  | X |  |  |  | 12 |  |  |  |
| 26 | Cranium 2 | P | L | RT | M2 |  |  |  |  |  | 12 |  |  |  |
| 26 | Cranium 2 | P | L | RT | M1 |  |  |  |  |  | 16 |  |  |  |
| 26 | Cranium 2 | P | L | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 26 | Cranium 2 | P | L | RT | PM1 |  |  |  |  | 3 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Scott } \\ (1979) \end{array}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 26 | Cranium 2 | P | L | RT | C |  |  |  |  | 5 |  |  |  |  |
| 26 | Cranium 2 | P | L | RT | I2 |  |  |  |  | 7 |  |  |  |  |
| 26 | Cranium 2 | P | L | RT | I1 |  |  |  |  | 8 |  |  |  |  |
| 26 | Cranium 2 | P | L | LT | I2 |  |  |  |  | 6 |  |  |  |  |
| 26 | Cranium 2 | P | L | LT | C |  |  |  |  | 5 |  |  |  |  |
| 26 | Cranium 2 | P | L | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 26 | Cranium 2 | P | L | LT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 26 | Cranium 2 | P | L | LT | M1 |  | X |  |  |  | 12 |  |  |  |
| 26 | Cranium 2 | P | L | LT | M2 |  | X |  |  |  | 12 |  |  |  |
| 26 | Cranium 3 | P | U | RT | M3 | X |  |  | 1.07 |  | 16 |  | 1 |  |
| 26 | Cranium 3 | P | U | RT | M1 |  |  |  | 2.22 |  | 16 |  |  |  |
| 26 | Cranium 3 | P | U | RT | C |  |  |  | 3.33 | 3 |  |  |  |  |
| 26 | Cranium 3 | P | U | RT | I2 |  |  |  | 3.31 | 3 |  |  |  |  |
| 26 | Cranium 3 | P | U | RT | I1 |  |  |  | 3.36, 6.58 | 3 |  |  |  |  |
| 26 | Cranium 3 | P | U | LT | C |  |  |  | 3.46, 6.54 | 1 |  |  |  |  |
| 26 | Cranium 3 | P | U | LT | M1 |  |  |  | 2.00, |  | 16 |  |  |  |
| 26 | Cranium 3 | P | U | LT | M2 |  |  |  | 2.98 |  | 12 |  |  |  |
| 26 | Cranium 3 | P | U | LT | M3 |  |  |  | 1.79 |  | 12 |  |  |  |
| 26 | Cranium 3 | P | L | RT | M3 | X |  |  |  |  | 8 |  |  |  |
| 26 | Cranium 3 | P | L | RT | M2 |  |  |  |  |  | 8 |  |  |  |
| 26 | Cranium 3 | P | L | RT | M1 |  |  |  | 3.13 |  | 8 |  |  |  |
| 26 | Cranium 3 | P | L | LT | PM2 |  |  |  | 1.84 | 2 |  |  |  |  |
| 26 | Cranium 3 | P | L | LT | M1 |  |  |  | 1.88 |  | 20 |  |  |  |
| 26 | Cranium 3 | P | L | LT | M2 | X |  |  |  |  | 12 |  |  |  |
| 26 | Cranium 3 | P | L | LT | M3 |  |  |  |  |  | 12 |  |  |  |
| 26 | Cranium 3 | P | U | RT | PM1 |  | X |  |  | 2 |  |  |  |  |
| 26 | Cranium 3 | P | U | RT | M2 |  | X |  |  |  | 4 |  |  |  |
| 27 | 1-7-78 | P | U | LT | I2 |  |  |  | 1.13, 2.72 | 5 |  |  | 1 |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathrm{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 27 | 1-7-78 | P | U | LT | C |  |  |  | 2.02, 4.43 | 5 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | PM1 |  |  |  | 2.01, 3.66 | 3 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | PM2 |  |  |  | 1.07, 3.49 | 3 |  |  |  |  |
| 27 | 1-7-78 | P | U | LT | M1 |  |  |  | 3.4 |  | 20 |  |  |  |
| 27 | 1-7-78 | P | U | LT | M2 |  |  |  | 2.85 |  | 16 |  |  |  |
| 27 | 1-7-78 | P | L | RT | M3 |  |  |  |  |  | 8 |  |  |  |
| 27 | 1-7-78 | P | L | RT | M2 | X |  |  |  |  | 16 |  |  |  |
| 27 | 1-7-78 | P | L | RT | M1 | X |  |  |  |  | 20 |  |  |  |
| 27 | 1-7-78 | P | L | RT | PM2 |  |  |  |  | 1 |  |  |  |  |
| 27 | 1-7-78 | P | L | RT | PM1 |  |  |  | 2.75 | 1 |  |  |  |  |
| 27 | 1-7-78 | P | L | RT | C |  |  |  | 1.38, 4.42 | 3 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | M2 |  |  |  | 3.34 |  | 20 |  |  |  |
| 27 | 1-7-78 | P | L | LT | M3 | X |  |  | 1.84 |  | 24 |  |  |  |
| 27 | 1-7-78 | P | L | RT | M3 |  |  |  |  |  | 20 |  |  |  |
| 27 | 1-7-78 | P | L | RT | M2 | X |  |  |  |  | 20 |  | 1 |  |
| 27 | 1-7-78 | P | L | RT | M1 | X |  |  |  |  | 20 |  |  |  |
| 27 | 1-7-78 | P | L | RT | I1 |  | X |  |  | 4 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | I1 |  | X |  | 4.32, 5.12 | 4 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | I2 |  | X |  | 3.82, 5.08 | 4 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | C |  | X |  | 3.38, 5.58, 6.99 | 3 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | PM1 |  |  |  | 1.55, 3.91 | 3 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | PM2 |  |  |  | 2.28, 4.22 | 3 |  |  |  |  |
| 27 | 1-7-78 | P | L | LT | M1 |  |  |  | 1.88, 4 |  | 20 |  |  |  |
| 27 | 1-7-78 | P | L | LT | M2 |  |  |  | 2.26, 3 |  | 20 |  |  |  |
| 27 | 1-7-78 | P | L | LT | M3 |  |  |  |  |  | 20 |  |  |  |
| 38 | Skeleton A | P | L | RT | M3 |  |  |  | 2 |  | 8 |  |  |  |
| 38 | Skeleton A | P | L | RT | M2 |  | X |  | 2.1 |  | 8 |  | 1 |  |
| 38 | Skeleton A | P | L | RT | M1 |  |  |  | 1.43 |  | 8 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathrm{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | NonMetric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{array}{r} \hline \text { Scott } \\ (1979) \\ \hline \end{array}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38 | Skeleton A | P | L | RT | PM2 |  |  |  | 1.96 | 3 |  |  |  |  |
| 38 | Skeleton A | P | L | RT | PM1 |  |  |  | 2.11, 4.78 | 3 |  |  |  |  |
| 38 | Skeleton A | P | L | RT | C |  |  |  | 3.07, 6.33 | 3 |  |  |  |  |
| 38 | Skeleton E | P | U | LT | M1 |  |  |  |  |  | 28 |  |  |  |
| 38 | Skeleton E | P | U | LT | M2 |  |  |  | 2.81 |  | 24 |  | 1 |  |
| 38 | Skeleton E | P | U | LT | M3 |  |  |  | 2.69 |  | 20 |  |  |  |
| 38 | Skeleton F | P | U | RT | PM2 |  |  |  |  | 7 |  |  |  |  |
| 38 | Skeleton F | P | U | RT | PM1 | X |  |  | 3.57 | 6 |  |  |  |  |
| 38 | Skeleton F | P | U | RT | I2 |  |  |  | 1.75, 3.40 | 6 |  |  |  |  |
| 38 | Skeleton F | P | U | RT | I1 |  |  |  | 2.22, 3.37 | 4 |  |  | 1 |  |
| 38 | Skeleton F | P | U | LT | I1 |  |  |  | 1.96, 3.72 | 3 |  |  |  |  |
| 38 | Skeleton F | P | U | LT | C |  |  |  | 1.03, 2.16 | 3 |  |  |  |  |
| 38 | Skeleton F | P | U | LT | PM2 |  |  |  |  | 5 |  |  |  |  |
| 38 | Skeleton F | P | U | LT | M1 |  |  |  |  |  | 16 |  |  |  |
| 38 | Skeleton F | P | U | LT | M2 | X |  |  |  |  | 16 |  |  |  |
| 38 | Skeleton D | P | L | RT | PM2 |  |  |  | 1.63 | 6 |  |  | 1 |  |
| 38 | Skeleton D | P | L | RT | PM1 |  |  |  | 2.53 | 6 |  |  |  |  |
| 38 | Skeleton D | P | L | RT | C |  |  |  | 2.48, 3.45, 5.11 | 7 |  |  |  |  |
| 38 | Skeleton D | P | L | RT | I2 |  | X |  | 3 | 5 |  |  |  |  |
| 38 | Skeleton D | P | L | RT | I1 |  | X |  | 3.43 | 6 |  |  |  |  |
| 38 | Skeleton D | P | L | LT | I1 |  | X |  |  | 8 |  |  |  |  |
| 38 | Skeleton D | P | L | LT | I2 |  | X |  |  | 6 |  |  |  |  |
| 38 | Skeleton D | P | L | LT | C |  |  |  | 2.84, 3.44, 5.11 | 5 |  |  |  |  |
| 38 | Skeleton D | P | L | LT | PM1 |  |  |  | 1.85, 3.01 | 5 |  |  |  |  |
| 38 | Skeleton D | P | L | LT | PM2 |  |  |  | 1.48, 2.70 | 6 |  |  |  |  |
| 38 | Skeleton D | P | L | LT | M1 | X |  |  | 1.86 |  | 36 |  |  |  |
| 38 | Skeleton D | P | L | LT | M2 |  |  |  |  |  | 28 |  |  |  |
| 38 | Skeleton D | P | L | LT | M3 | X |  |  |  |  | 24 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | NonMetric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & \text { (1984) } \end{aligned}$ | $\begin{array}{\|c\|} \hline \text { Scott } \\ (1979) \end{array}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38 | Skeleton 1 | P | L | RT | M3 |  |  |  |  |  | 16 |  | 1 | loose |
| 38 | Skeleton 1 | P | L | RT | M2 |  |  |  |  |  | 24 |  |  | loose |
| 38 | Skeleton 1 | P | L | RT | C |  |  |  | 1.84, 2.66, 3.99 | 4 |  |  |  | loose |
| 38 | Skeleton 1 | P | L | LT | PM1 |  |  |  | 1.40, 2.58 | 4 |  |  |  | loose |
| 38 | Skeleton 1 | P | L | LT | PM2 |  |  |  |  |  |  |  |  |  |
| 38 | Skeleton 1 | P | L | LT | M1 |  |  |  |  | 8 |  |  |  |  |
| 38 | Skeleton 1 | P | L | LT | M2 |  |  |  |  | 6 |  |  |  |  |
| 38 | Skeleton 1 | P | L | LT | M3 |  |  |  |  | 5 |  |  |  |  |
| 38 | Skeleton B | P | L | RT | M1 |  |  |  |  |  | 20 |  | 1 |  |
| 38 | Skeleton B | P | L | RT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 38 | Skeleton B | P | L | RT | PM1 | X |  |  |  | 3 |  |  |  |  |
| 38 | Skeleton B | P | L | RT | C | X |  |  | 2.79 | 4 |  |  |  |  |
| 38 | Skeleton B | P | L | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| 38 | Skeleton H | P | U | RT | M1 |  |  |  |  |  | 8 |  | 1 |  |
| 38 | Skeleton H | P | U | RT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 38 | Skeleton H | P | U | RT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 38 | Skeleton C | P | L | LT | I1 |  |  |  |  |  |  |  | 1 |  |
| 38 | Skeleton C | P | L | LT | I2 |  |  |  |  |  |  |  |  |  |
| 38 | Skeleton C | P | L | LT | C |  |  |  |  |  |  |  |  |  |
| 38 | Skeleton C | P | L | LT | PM1 |  |  |  |  |  |  |  |  |  |
| 38 | Skeleton C | P | L | LT | PM2 |  |  |  |  |  |  |  |  |  |
| 38 | Skeleton C | P | L | LT | M1 | X |  |  |  |  | 16 |  |  |  |
| 38 | Skeleton C | P | L | LT | M2 | X |  |  |  |  | 20 |  |  |  |
| 38 | Skeleton G | P | U | RT | M3 |  |  |  |  |  | 12 |  | 1 |  |
| 38 | Skeleton G | P | U | RT | M2 |  |  |  |  |  | 12 |  |  |  |
| 38 | Skeleton G | P | U | RT | M1 |  | X |  |  |  | 12 |  |  |  |
| 38 | Skeleton G | P | U | RT | PM2 |  |  |  |  | 3 |  |  |  |  |
| 38 | Skeleton G | P | U | RT | PM1 |  |  |  |  | 2 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathrm{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | NonMetric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \\ \hline \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 38 | Skeleton G | P | U | RT | C |  |  |  |  | 4 |  |  |  |  |
| 40 |  | P | U | RT | M3 |  |  |  |  |  | 4 |  | 1 |  |
| 40 |  | P | U | RT | M1 |  |  |  |  |  | 8 |  |  |  |
| 40 |  | P | U | RT | PM2 |  |  |  |  | 2 |  |  |  |  |
| 40 |  | P | U | RT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 40 |  | P | U | RT | C |  |  |  | 1.71, 3.30, 6.22 | 3 |  |  |  |  |
| 40 |  | P | U | RT | I2 |  | X |  | 2.75 | 3 |  |  |  |  |
| 40 |  | P | U | RT | I1 |  | X |  | 2.31, 4.80, 6.71 | 3 |  |  |  |  |
| 40 |  | P | U | LT | I2 |  |  |  | 3.28 | 2 |  |  |  |  |
| 40 |  | P | U | LT | C |  |  |  | 3 LEH lines present but cannot measure | 2 |  |  |  |  |
| 40 |  | P | U | LT | PM1 |  |  |  | 1.01, 2.56 | 3 |  |  |  |  |
| 40 |  | P | U | LT | PM2 |  |  |  | 1.78 | 2 |  |  |  |  |
| 40 |  | P | U | LT | M1 |  |  |  |  |  |  |  |  | loose |
| 40 |  | P | L | RT | M1 |  |  |  |  |  | 8 |  |  |  |
| 40 |  | P | L | RT | PM2 |  |  |  | 2.22 | 2 |  |  |  |  |
| 40 |  | P | L | RT | PM1 |  |  |  | 2,36, 5.60 | 2 |  |  |  |  |
| 40 |  | P | L | RT | C |  |  |  | $\begin{gathered} \hline 2.86,4.63,5.69, \\ 7.19 \\ \hline \end{gathered}$ | 3 |  |  |  |  |
| 40 |  | P | L | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| 40 |  | P | L | RT | I1 |  |  |  |  | 4 |  |  |  |  |
| 40 |  | P | L | LT | C |  |  |  | 2.86, 4.57 | 3 |  |  |  |  |
| 40 |  | P | L | LT | PM1 |  |  |  |  | 2 |  |  |  |  |
| 41 | Skull 1 | P | U | RT | I2 |  |  |  |  |  |  |  | 1 | loose |
| 41 | Skull 1 | P | U | LT | PM1 |  | X |  |  |  |  |  |  | loose |
| 41 | Skull 1 | P | U | LT | PM2 |  |  |  |  |  |  |  |  |  |
| 41 | Skull 1 | P | L | RT | M3 |  | X |  |  |  |  |  |  | loose |
| 41 | Skull 1 | P | L | RT | M2 |  |  |  |  |  |  |  |  | loose |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \text { vs } \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & \text { (1984) } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \\ \hline \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 41 | Skull 1 | P | L | RT | M1 |  | X |  |  |  | 32 |  |  |  |
| 41 | Skull 1 | P | L | RT | PM2 |  | X |  |  | 7 |  |  |  |  |
| 41 | Skull 1 | P | L | RT | C |  | X |  |  | 4 |  |  |  |  |
| 43 | 1-12-34 | P | U | LT | M3 |  |  |  |  |  | 12 |  |  |  |
| 43 | 1-12-34 | P | U | RT | M3 |  |  |  |  |  |  |  | 1 |  |
| 43 | 1-12-34 | P | U | RT | M2 |  |  |  |  |  | 20 |  |  |  |
| 43 | 1-12-34 | P | U | RT | M1 |  | X |  |  |  | 20 |  |  |  |
| 43 | 1-12-34 | P | U | RT | PM2 |  |  |  |  | 5 |  |  |  |  |
| 43 | 1-12-34 | P | U | RT | PM1 |  |  |  |  | 5 |  |  |  |  |
| 43 | 1-12-34 | P | U | RT | C |  | X |  |  | 4 |  |  |  |  |
| 43 | 1-12-34 | P | U | RT | I2 |  | X |  |  | 3 |  |  |  |  |
| 43 | 1-12-34 | P | U | RT | I1 |  | X |  |  | 6 |  |  |  |  |
| 43 | 1-12-34 | P | U | LT | I1 |  | X |  |  | 6 |  |  |  |  |
| 43 | 1-12-34 | P | U | LT | I2 |  | X |  |  | 6 |  |  |  |  |
| 43 | 1-12-34 | P | U | LT | C |  | X |  |  | 5 |  |  |  |  |
| 43 | 1-12-34 | P | U | LT | PM1 |  |  |  |  | 4 |  |  |  |  |
| 43 | 1-12-34 | P | U | LT | PM2 |  |  |  |  | 4 |  |  |  |  |
| 43 | 1-12-34 | P | U | LT | M1 | X |  |  |  |  | 20 |  |  |  |
| 43 | 1-12-34 | P | U | LT | M2 |  |  |  |  |  | 16 |  |  |  |
| 46 |  | P | L | RT | M3 |  |  |  | 2.6 |  | 12 |  |  |  |
| 46 |  | P | L | RT | M2 |  |  |  | 1.75 |  | 16 |  |  |  |
| 46 |  | P | L | RT | M1 |  |  |  | 2.02 |  | 16 |  |  |  |
| 46 |  | P | L | RT | PM2 |  |  |  | 3.29 |  |  |  |  | loose |
| 46 |  | P | L | RT | PM1 |  |  |  | 1.60, 5.16 | 3 |  |  | 1 |  |
| 46 |  | P | L | RT | C |  |  |  | 0.87, 3.24 | 4 |  |  |  |  |
| 46 |  | P | L | RT | I2 |  |  |  | 2.1 | 5 |  |  |  |  |
| 46 |  | P | L | RT | I1 |  |  |  | 2.1 | 6 |  |  |  |  |
| 46 |  | P | L | LT | I1 |  |  |  | 1.92, 2.43 | 6 |  |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P} \text { vs } \\ \mathbf{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathrm{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & \text { (1984) } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 46 |  | P | L | LT | I2 |  |  |  | 1.76, 3.29 | 5 |  |  |  |  |
| 46 |  | P | L | LT | C |  |  |  | 1.64, 4.81 | 4 |  |  |  |  |
| 46 |  | P | L | LT | PM1 |  |  |  |  | 3 |  |  |  |  |
| 46 |  | P | L | LT | PM2 |  |  |  | 2.89 | 3 |  |  |  |  |
| 46 |  | P | L | LT | M1 |  |  |  | 1.98, |  | 24 |  |  |  |
| 46 |  | P | L | LT | M2 |  |  |  | 1.09 |  | 24 |  |  |  |
| 46 |  | P | L | LT | M3 |  |  |  |  |  | 16 |  |  |  |
| PLG | Skeleton A "two mandibles joined" | D | L | RT | M2 |  |  |  |  |  |  | 7.5 |  |  |
| PLG | Skeleton A "two mandibles joined" | D | L | RT | M1 |  |  |  |  |  |  | 7.5 | 1 |  |
| PLG | Skeleton A "two mandibles joined" | P | L | RT | M1 |  |  |  |  |  |  | 7.5 |  |  |
| PLG | $\begin{gathered} \hline \text { Object 3-4-22; 1-4- } \\ 31 \\ \hline \end{gathered}$ | P | U | RT | I1 |  |  |  |  |  |  |  |  | loose |
| PLG | $\begin{gathered} \text { Object 3-4-22; 1-4- } \\ 31 \end{gathered}$ | P | L | RT | M3 |  |  |  |  |  | 16 |  | 1 |  |
| PLG | $\begin{gathered} \text { Object 3-4-22; 1-4- } \\ 31 \end{gathered}$ | P | L | RT | M2 |  |  |  |  |  | 20 |  |  |  |
| PLG | Object 3-4-22; 1-431 | P | L | RT | M1 |  |  |  |  |  | 32 |  |  |  |
| PLG | $\begin{gathered} \text { Object 3-4-22; 1-4- } \\ 31 \end{gathered}$ | P | L | RT | PM2 |  |  |  |  |  |  |  |  | loose |
| PLG | Object 3-4-22; 1-431 | P | L | RT | PM1 |  |  |  |  |  |  |  |  | loose |
| PLG | $\begin{gathered} \text { Object 3-4-22; 1-4- } \\ 31 \\ \hline \end{gathered}$ | P | L | RT | C |  |  |  |  |  |  |  |  | loose |
| PLG | $\begin{gathered} \text { Object 3-4-22; 1-4- } \\ 31 \end{gathered}$ | P | L | LT | I2 |  |  |  |  |  |  |  |  | loose |
| PLG | $\begin{gathered} \text { Object 3-4-22; 1-4- } \\ 31 \end{gathered}$ | P | L | LT | C |  |  |  |  |  |  |  |  | loose |


| Grave | Context | $\begin{gathered} \hline \text { P vs } \\ \text { D } \\ \hline \end{gathered}$ | $\begin{array}{\|c} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{array}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | Non- <br> Metric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Scott } \\ (1979) \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | Object 3-4-22; 1-431 | P | L | LT | PM1 |  |  |  |  |  |  |  |  | loose |
| PLG | $\begin{gathered} \text { Object 3-4-22; 1-4- } \\ 31 \\ \hline \end{gathered}$ | P | L | LT | PM2 |  |  |  |  | 4 |  |  |  |  |
| PLG | Object 3-4-22; 1-4- $31$ | P | L | LT | M1 |  |  |  |  |  | 24 |  |  |  |
| PLG | Object 3-4-22; 1-431 | P | L | LT | M2 |  |  |  |  |  | 24 |  |  |  |
| PLG | $\begin{gathered} \text { Object 3-4-22; 1-4- } \\ 31 \end{gathered}$ | P | L | LT | M3 |  |  |  |  |  | 16 |  |  |  |
| PLG | Jaw (with Skull) | P | U | RT | M3 |  |  |  |  |  | 8 |  |  |  |
| PLG | Jaw (with Skull) | P | U | RT | M2 |  |  |  |  |  | 12 |  |  |  |
| PLG | Jaw (with Skull) | P | U | RT | M1 |  | X |  | 2.97 |  | 16 |  |  |  |
| PLG | Jaw (with Skull) | P | U | RT | I2 |  |  |  | 3.72, 4.90 | 2 |  |  |  |  |
| PLG | Jaw (with Skull) | P | U | LT | PM1 |  |  |  | 0.77, 1.38 | 2 |  |  | 1 |  |
| PLG | Jaw (with Skull) | P | U | LT | PM2 |  |  |  | 1.41, 2.20 | 2 |  |  |  |  |
| PLG | Jaw (with Skull) | P | U | LT | M1 |  |  |  | 2.51 | 2 |  |  |  |  |
| PLG | Jaw (with Skull) | P | U | LT | M2 |  |  |  | 2.33 | 2 |  |  |  |  |
| PLG | individual 1 | P | L | RT | M3 |  |  |  |  |  | 8 |  | 1 |  |
| PLG | individual 1 | P | L | LT | M1 |  |  |  |  |  | 24 |  |  |  |
| PLG | individual 1 | P | L | LT | M2 |  |  |  |  |  | 32 |  |  |  |
| PLG | 1-04-28 | P | U | RT | M2 |  |  |  |  |  | 20 |  | 1 |  |
| PLG | 1-04-28 | P | U | RT | M1 | X |  |  |  |  | 16 |  |  |  |
| PLG | 1-04-28 | P | U | RT | I2 |  |  |  |  | 3 |  |  |  |  |
| PLG | 1-04-28 | P | U | RT | I1 |  |  |  | 2.31, 4.75 | 5 |  |  |  |  |
| PLG | 1-04-28 | P | U | LT | I2 |  |  |  | 2.66, 4.97 | 4 |  |  |  |  |
| PLG | 1-04-28 | P | U | LT | C |  |  |  | 2.50, 3.68 | 4 |  |  |  |  |
| PLG | 1-04-28 | P | U | LT | PM1 |  |  |  | 1.83 | 3 |  |  |  |  |
| PLG | 1-04-28 | P | U | LT | PM2 |  |  |  | 1.76 | 3 |  |  |  |  |
| PLG | 1-04-28 | P | U | LT | M2 |  |  |  |  |  | 16 |  |  |  |


| Grave | Context | $\begin{gathered} \hline \mathbf{P v s} \\ \mathrm{D} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathbf{U} \text { vs } \\ \mathbf{L} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { LT vs } \\ \text { RT } \\ \hline \end{gathered}$ | Type | Caries | Calculus | NonMetric | LEH (mm) | $\begin{aligned} & \hline \text { Smith } \\ & (1984) \\ & \hline \end{aligned}$ | $\begin{gathered} \begin{array}{c} \text { Scott } \\ (1979) \\ \hline \end{array} \\ \hline \end{gathered}$ | LATD | MLNI | Notes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PLG | 1-04-28 | P | U | LT | M3 |  |  |  |  |  | 16 |  |  |  |
| Rectan | Water Feature | P | U | RT | M3 |  |  |  | 3.43 |  | 4 |  | 1 |  |
| Rectan | Water Feature | P | U | RT | M2 |  |  |  | 1 LEH but can't measure |  | 16 |  |  |  |
| Rectan | Water Feature | P | U | RT | M1 |  |  |  | 2.26 |  | 24 |  |  |  |
| Rectan | Water Feature | P | U | RT | PM2 |  |  |  | 2.35 | 4 |  |  |  |  |
| Rectan | Water Feature | P | U | RT | PM1 |  |  |  | 1.76 | 4 |  |  |  |  |
| Rectan | Water Feature | P | U | RT | C |  |  |  | 3.02 | 5 |  |  |  |  |
| Rectan | Water Feature | P | U | RT | I2 |  |  |  | 3.43 | 6 |  |  |  |  |
| Rectan | Water Feature | P | U | LT | I1 |  |  |  | 2.74 | 6 |  |  |  |  |
| Rectan | Water Feature | P | U | LT | I2 |  |  |  | 1.65, 2.39 | 6 |  |  |  |  |
| Rectan | Water Feature | P | U | LT | C |  |  |  | 3.05 | 5 |  |  |  |  |
| Rectan | Water Feature | P | U | LT | PM1 |  |  |  | 2.39 | 5 |  |  |  |  |
| Rectan | Water Feature | P | U | LT | PM2 |  |  |  | 2.48 | 5 |  |  |  |  |
| Rectan | Water Feature | P | L | RT | M2 | X |  |  | 2.22 |  | 24 |  |  |  |
| Rectan | Water Feature | P | L | RT | PM2 |  |  |  | 2.03 | 4 |  |  |  |  |
| Rectan | Water Feature | P | L | RT | PM1 |  |  |  | 1.23, 2.81 | 5 |  |  |  |  |
| Rectan | Water Feature | P | L | RT | C |  |  |  |  | 7 |  |  |  |  |
| Rectan | Water Feature | P | L | RT | I2 |  |  |  |  | 7 |  |  |  |  |
| Rectan | Water Feature | P | L | RT | I1 |  |  |  | 2.24 | 8 |  |  |  |  |
| Rectan | Water Feature | P | L | LT | I2 |  |  |  | 2.38 | 7 |  |  |  |  |
| Rectan | Water Feature | P | L | LT | C |  |  |  |  | 6 |  |  |  |  |
| Rectan | Water Feature | P | L | LT | PM1 |  |  |  | 2.88 | 4 |  |  |  |  |
| Rectan | Water Feature | P | L | LT | PM2 |  |  |  | 2.2 | 4 |  |  |  |  |
| Rectan | Water Feature | P | L | LT | M1 | X |  |  |  |  | 20 |  |  |  |
| Rectan | Water Feature | P | L | LT | M2 |  |  |  | 2.46 |  | 20 |  |  |  |

Table 2. Full inventory of in situ teeth associated with specific individuals. Individuals are boxed in red. Smith (1984) wear scores fall within 1-8, light to heavy. Scott (1979) wear score sums fall within 0-40, light to heavy. Under LATD, m=months. Under notes, "loose" identifies teeth that are associated with an individual but not in situ (teeth that have fallen out of the tooth socket). $\mathrm{PLG}=$ parking lot grave; $\mathrm{P}=$ permanent; $\mathrm{D}=$ deciduous; $\mathrm{U}=$ upper; $\mathrm{L}=\mathrm{lower} ; \mathrm{LT}=$ left; RT=right; $\mathrm{X}=$ present; LATD=London Atlas of Tooth Development; MLNI=minimum likely number of individuals; LEH=linear enamel hypoplasia;

| Tooth Type | Number of Teeth | Percent (\%) of Teeth with Observable LEH |
| :---: | :---: | :---: |
| $\mathrm{rc}_{1}$ | 1 | 0.3 |
| ? $\mathrm{C}_{1}$ | 2 | 0.6 |
| ? ${ }^{\text {? }}$ | 1 | 0.3 |
| ? $\mathrm{PM}_{2}$ | 1 | 0.3 |
| ? $\mathrm{M}_{3}$ | 1 | 0.3 |
| $\mathrm{LC}_{1}$ | 28 | 8.6 |
| $\mathrm{LI}_{1}$ | 7 | 2.2 |
| $\mathrm{LI}_{2}$ | 8 | 2.5 |
| $\mathrm{LPM}_{1}$ | 10 | 3.1 |
| $\mathrm{LPM}_{2}$ | 12 | 3.7 |
| LM ${ }_{1}$ | 7 | 2.2 |
| $\mathrm{LM}_{2}$ | 4 | 1.2 |
| $\mathrm{LM}_{3}$ | 1 | 0.3 |
| $\mathrm{RC}_{1}$ | 31 | 9.6 |
| RI ? | 2 | 0.6 |
| $\mathrm{RI}_{1}$ | 5 | 1.5 |
| RI2 | 14 | 4.3 |
| RPM ${ }_{1}$ | 12 | 3.7 |


| Tooth Type | Number of Teeth | Percent (\%) of Teeth with Observable LEH |
| :---: | :---: | :---: |
| RPM ${ }_{2}$ | 12 | 3.7 |
| $\mathrm{RM}_{1}$ | 4 | 1.2 |
| RM2 | 3 | 0.9 |
| $\mathrm{RM}_{3}$ | 2 | 0.6 |
| LC ${ }^{1}$ | 21 | 6.5 |
| LI ${ }^{\text {? }}$ | 2 | 0.6 |
| LI ${ }^{1}$ | 15 | 4.6 |
| $L I V^{2}$ | 9 | 2.8 |
| $\mathrm{LPM}^{1}$ | 13 | 4.0 |
| $L^{\prime} \mathrm{M}^{2}$ | 6 | 1.9 |
| ? $\mathrm{PM}^{2}$ | 3 | 0.9 |
| ? ${ }^{\text {? }}$ | 1 | 0.3 |
| $\mathrm{LM}^{1}$ | 7 | 2.2 |
| LM ${ }^{2}$ | 6 | 1.9 |
| $\mathrm{LM}^{3}$ | 3 | 0.9 |
| $\mathrm{RC}^{1}$ | 19 | 5.9 |
| RI ${ }^{1}$ | 16 | 4.9 |
| $\mathrm{RI}^{2}$ | 16 | 4.9 |
| RPM ${ }^{1}$ | 7 | 2.2 |


| Tooth Type | Number of Teeth | Percent (\%) of Teeth with <br> Observable LEH |
| :---: | :---: | :---: |
| $\mathrm{RPM}^{2}$ | 5 | 1.5 |
| $\mathrm{RM}^{1}$ | 3 | 0.9 |
| $\mathrm{RM}^{2}$ | 1 | 0.3 |
| $\mathrm{RM}^{3}$ | 3 | 0.9 |
| TOTAL | $\mathbf{3 2 4}$ | 100 |

Table 3. Number of teeth with linear enamel hypoplasia by tooth Type.

