

The teeth are the hardest part of the human body and can often survive in the ground even under unfavourable conditions. The teeth are often the only part of a human skeleton excavated from the burial ground. They can provide information about the individual's health, habits and biological affiliations. Similar to any other part of the human body the teeth undergo evolutionary changes in time. They are sensitive to changes in hygienic habits, diet, and to physiological changes during their development in childhood (Hillson 1996, Larsen 1997).

1.7. The aim of the study

The aim of this study is to evaluate dental health of the rural population of Metaponto and establish its affiliations to other populations using dental traits.

With respect to dental health previous assumptions can be treated as testable hypotheses and tested accordingly:

1) It is assumed that dental health reflects the general health status of the population. This hypothesis will be tested by comparing the prevalence of caries, periodontal disease, hypoplasia and periapical abscesses with palaeopathological findings on bones in the Metapontine material. Further, it is assumed that the systemic diseases, signs of which have been found in the skeletons of the rural sample, can worsen the dental conditions in the population. This hypothesis can be tested by comparing the dental health of individuals with and without signs of systemic diseases.

2) If dental health reflects overall health status it can be used to falsify notions of well-being of the inhabitants of Metaponto derived from classical history and archaeological studies.

3) It is assumed that urban living conditions in ancient Greece were generally better than that of rural people. That assumption will be tested by comparison of the dental health of the rural and urban samples.

4) Whether and to what extent the dental health of the colonists was affected by new environmental conditions encountered in occupied lands will be shown by comparison of dental conditions of the rural Metapontines with the dentition of various European and world-wide populations. Dental health of populations living in extremely poor conditions (slaves) or in very harsh environment (nomadic populations) and modern populations of a traditional economy similar to that of the ancient Greeks will provide contrast to dental health status of the Metapontines.

In an attempt to establish biological affiliations of the rural people quantitative and qualitative dental traits will be used to test the hypothesis that the biological distance of the rural population is smallest to the Greeks, the colonists' population of origin. The hypothesis of gradual assimilation of local Italic populations into the Greek culture as indicated by the archaeological evidence from the rural cemetery in Metaponto will be tested on a biological level.

Finally, the author will try to ascertain whether the people from the *chora* of Metaponto buried their relatives in family plots as suggested by the analysis of grave goods. If so, the hypothesis tested here will be that the people buried in the family groups show more biological similarities to each other than it would be expected between the people in the entire rural population of Metaponto.

Detailed questions regarding the above hypotheses are listed in the following chapters of the thesis.

2. SKELETAL AND DENTAL MATERIAL.

2.1. General description of the skeletal material

A total of 272 human skeletons were recovered from the four burial sites Pantanella, Saldone, Sant'Angelo and Pantanello Sanctuary Celeste in the rural area surrounding the Ancient city of Metaponto. This represents the largest skeletal sample ever excavated from the rural areas of the territories colonised by the Greeks.

The sites are located Northwest of Metaponto, between two rivers, Basento to the Southwest and Bradano to the Northeast, which flow into the Gulf of Tarent of the Mediterranean Sea (Figures 1.3-2, 2.1-1). More detailed plans and maps of the excavated area and of the archaeological material from the sites can be found in Carter (1990a, 1998a).

The burials were dated to 600-250 BC. One of the most reliable and accurate methods of dating the burials from this period is the analysis of pottery associated with the graves. From the written historical sources and analysis of styles in which the pottery was decorated, archaeologists can date the burial to within 10 years (De Julis 1977, Elliott 1998, Burn 1998). By combining date estimates based on various types of pottery and grave goods it was possible to date the majority of burials from the rural necropolis of Metaponto (Carter 1998a, Morter and Hall 1998). Among 272 burials with the skeletal remains only three burials (1%) could not be dated at all for lack of cultural and archaeological information. About 70% of burials with preserved skeletons were dated within the range of 10-50 years. For the remaining 30% of burials the dating range was broader and in a few cases as broad as five centuries, despite various dating techniques used including chemical methods (Carter 1998a). The proportion of burials

with dentitions which could be dated within a close range of 10-50 years was 77.3% and similar to the proportion in the entire skeletal sample.

The first of these rural necropoleis, Saldone, was associated with the remains of a single farmhouse. It was excavated in 1976 by an American team and yielded 30 burials with bone fragments of 14 individuals (Carter 1990a). In 1979, the same team excavated Sant'Angelo Vecchio, another rural burial ground, also near an individual ancient farmhouse. This necropolis added the bone fragments of 6 individuals to the previously obtained skeletal material. Fragments of one inhabitant were also found near the Sanctuary of Celeste in 1978 while the team surveyed an area of the farmhouses scattered through the fields (Figure 1.3-2). The largest burial ground is the Pantanello cemetery, located 3.5 km Northwest of the borders of the city of Metaponto. This site was discovered and excavated during the summer and fall of 1983, 1984 and 1986 (Figures 2.1-1 and 1.3-2). A total of 320 burials with fragments of human skeletons belonging to 251 individuals were recovered there during four archaeological campaigns (Carter 1980, 1990a,b, 1998a).

2.12 Urban sample - reference material and its brief description.

Remains were also obtained from an urban cemetery of the city of Metaponto (Figure 1.3-2). The Crucinìa cemetery was excavated by Italian classical archaeologists in the 1960s and early 70s and from these excavations there were no skeletal remains preserved for the present study (De Siena and Carter, personal communication, archives and field notes of the Museum of Metaponto). The second part of this urban burial ground was excavated recently by another Italian team of classical archaeologists from the Museum of Metaponto. In the summer and fall of 1991, 1992 and 1993 the team excavated over six hundred graves from which human bone fragments of some 412 individuals were recovered. The author performed a preliminary anthropological

PANTANELLO NECROPOLIS

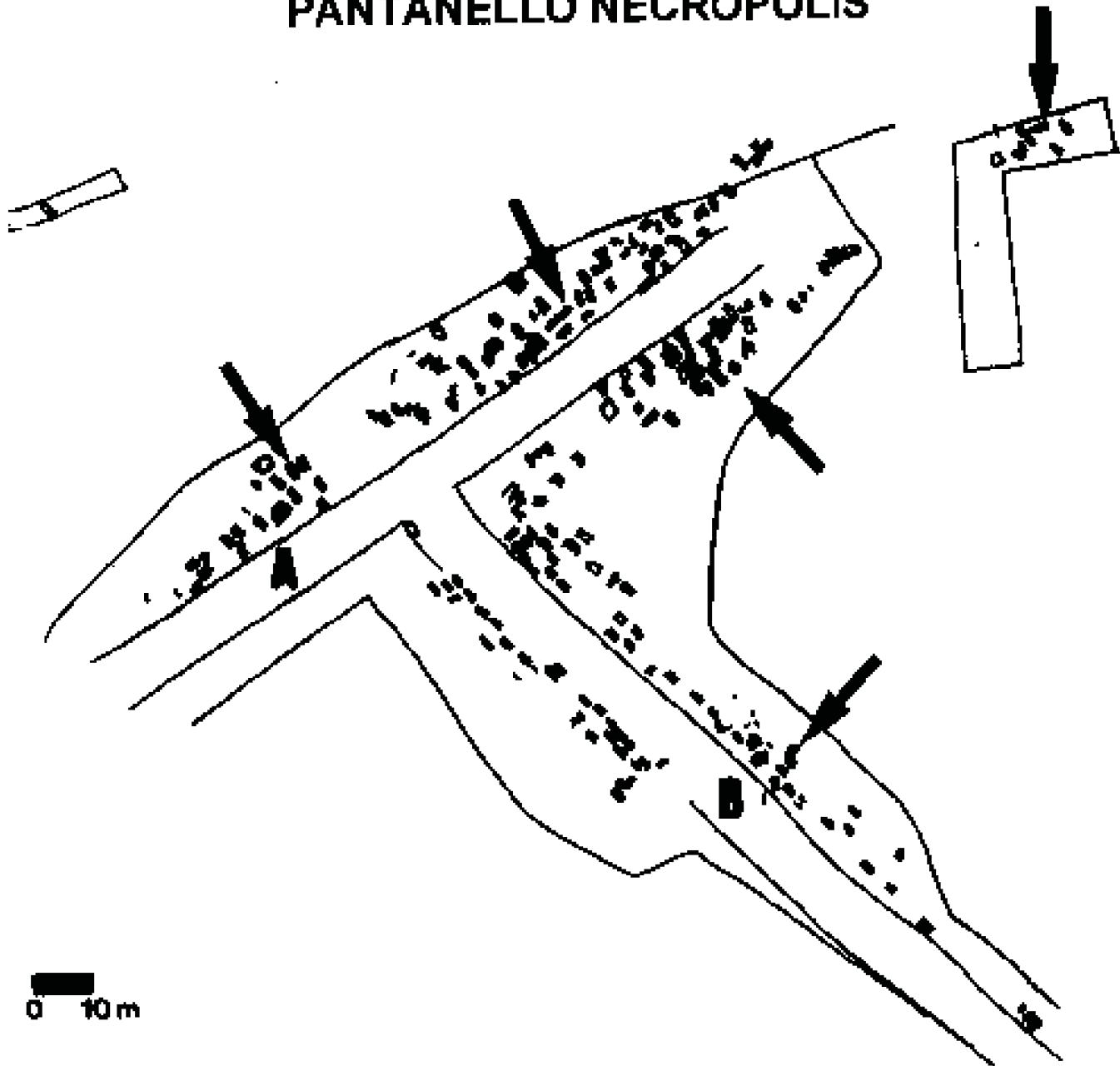


Figure 2.1-1. Schematic plan of the excavated area of the largest rural necropolis at Pantanello (modified from Carter 1998). Burials were placed along two ancient roads, Basento Road (A) and Division Line Road (B). The arrows point to the rectangles each representing a single burial.

analysis of the new skeletal material from the urban cemetery in the fall of 1991 and 1992 (R. Henneberg 1991, 1992, unpublished reports). Some 240 skeletons were excavated at that time. In July 1993 the rest of the skeletal sample from Crucinia was examined by the author and M. Henneberg together and preliminary analysis was conducted on the material (Henneberg et al. in preparation). Detailed studies of the entire skeletal sample from Crucinia are in progress.

These urban remains will be used as a reference sample to compare and contrast with the rural populace that comprises the focus of this thesis.

2.13. State of preservation of the skeletal material from rural Metaponto.

The systematic anthropological analysis of the skeletal sample from the rural area of Metaponto was begun in 1985 and was being carried out by a small team of physical anthropologists including the author under the direction of Professor M. Henneberg recently of the University of Adelaide. The work on the skeletal material started with a thorough cleaning and reconstruction of the broken bones. As can be seen in Table 2.13-1, the state of preservation of the skeletal material varied widely and is described here in four categories: 1) complete: all bones of an individual were present and in good condition, 2) nearly complete: bones of all major parts of the body diagnostically important for sex and age determination were present (such as the skull, pelvis, long bones, teeth and ribs), 3) fragmentary: one or more major parts of the skeleton were missing (e.g. skull or pelvis was missing, or skeleton was in many small pieces), 4) very fragmentary: only pieces of various bones were preserved (in one case only one tooth was found within the burial) (Henneberg and Henneberg 1998a) (Tables 2.13-1 and 2.13-2).

The Table 2.13-1 below shows the proportion of skeletons preserved in each category while in the Table 2.13-2 (see the end of this chapter) state of preservation of each individual skeleton is described according to the adopted four category scale.

Table 2.13-1. State of preservation of the skeletons from the rural area of Metaponto.

| Category | Number of skeletons | | | | total | |
|-------------------------|---------------------|-------------|----------------------|-------------|-----------|-------------|
| | Pantanello | | Other burial grounds | | All | |
| | N | % | N | % | N | % |
| complete | - | - | - | - | - | - |
| nearly complete | 77 | 30.7 | 7 | 33.3 | 83 | 30.9 |
| fragmentary | 114 | 45.4 | 11 | 52.4 | 125 | 45.0 |
| <u>very fragmentary</u> | <u>60</u> | <u>23.9</u> | <u>3</u> | <u>14.3</u> | <u>63</u> | <u>23.2</u> |
| Total | 251 | 100.0 | 21 | 100.0 | 272 | 100.0 |

Several factors contributed to the state of preservation. Individuals were buried in several types of graves. The most elaborate tombs, and the least common (24%) were made from stone and arranged as stone boxes with heavy stone covers (cysts and sarcophagi) (Figure 2.13-1). The second type were ceramic tile containers of various construction in which 44% of the individuals in the Pantanello necropolis were buried (Figure 2.13-2). The third category of burials, consisting of earthen graves or pits (fossa), was also common (32%) (Carter 1990a, 1998a) (Figure 2.13-3). Each type of burial produced different conditions under which the body decomposed along with the different potential for mechanical damage during the time the body rested in the grave.

The excavated area has been under intensive cultivation for centuries. The movement of soil during agricultural activities and environmental phenomena such as floods, and later use of heavy equipment on the fields induced breaking of the stony



Figure 2.13-1. The tomb number 350, unearthed during the last season of archaeological excavations at Pantanello in the summer 1986 (with the author at the side). The stone lid was taken off from the sarcophagus revealing the almost complete skeleton of a young female (25-30 years old). The bones were fragile and scattered, presumably the result of flooding. The burial was dated to 458-438 BC on grounds of pottery found inside the tomb. Among the grave goods were 11 vases, metal ornaments, alabastron (an expensive vessel made of onyx and popular as a gift) and a unique engraved mirror with a mythological scene at the back. Grave offerings found in this tomb placed it among the richest in the rural necropolis (Carter 1998a).



Figure 2.13-2. The burial number 327. The body was placed in a cappuccina, a tomb made from terracotta tiles. No grave goods were found in this tomb and therefore the dating was 470-275 BC. based entirely on the type of the tomb. Despite the nearly complete skeleton excavated from the soil, conditions inside the tomb made bone brittle and crumbling. The surface of the bone was also damaged. The male, 35-45 years old had some lipping on bodies of lumbar vertebrae.

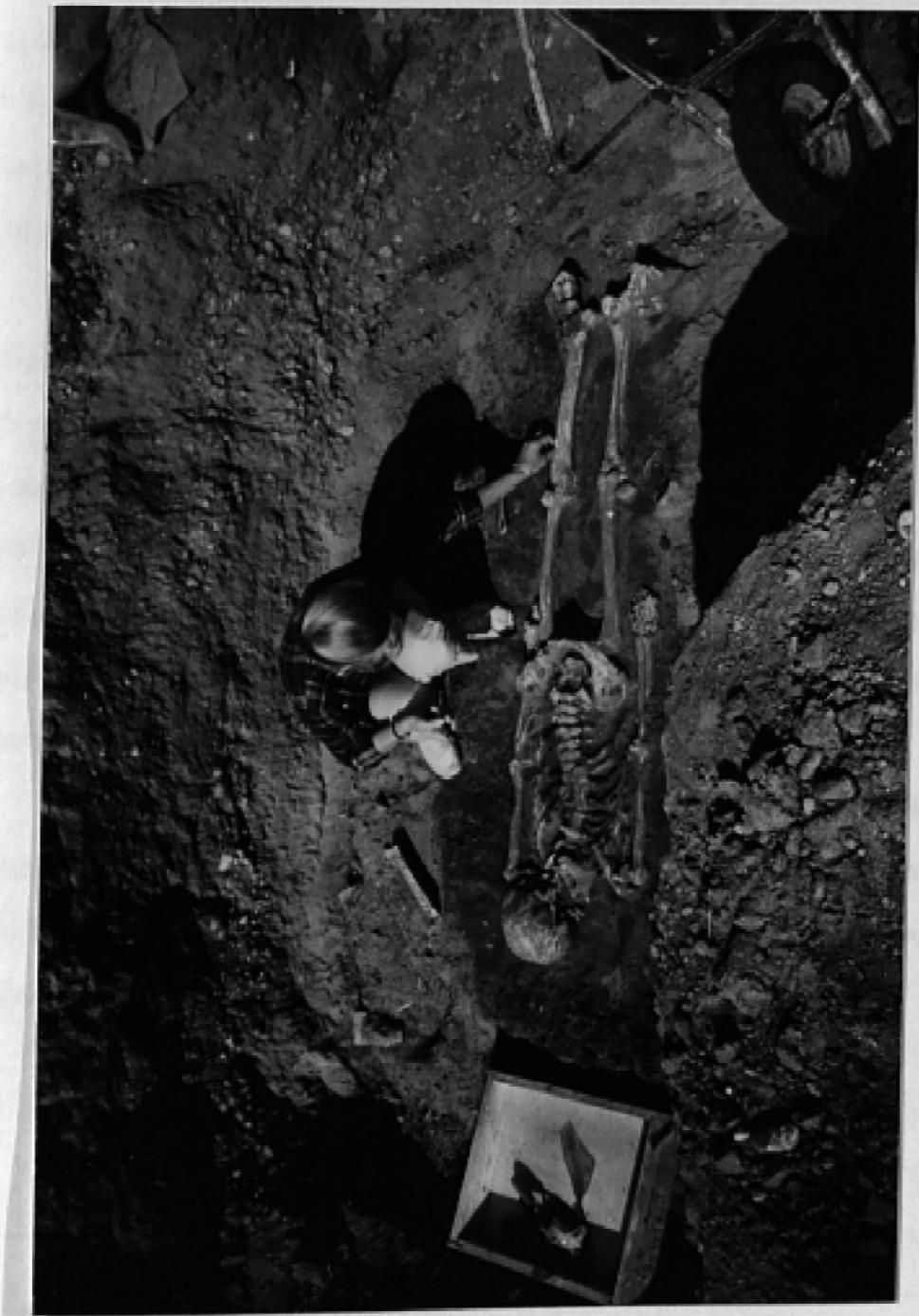


Figure 2.13-3. The burial number 347 and dated to 410-370 BC on grounds of pottery surrounding the body. A near complete well preserved skeleton of a 60-x years old male was found in a simple earthen grave called fossa. The individual had extensive slipping on vertebral bodies and fused together atlas, axis and the third cervical vertebrae. The photograph shows the last stages of excavation of the skeleton before the bones were lifted from the soil and placed in the wooden box.

covers and tiles which then fragmented the more fragile bones inside the boxes. The use of modern methods in agriculture such as chemicals, to improve soil quality also had an impact on the preservation of some of the skeletons. Natural conditions such as water drainage through various types of soil, air passing through the stone boxes, small animals exploring graves and plants growing in the vicinity of burials added to the damage. In extreme cases, however rare, excavated burials contained whole skeletons, but the bones were affected by chemicals, water and air and disintegrated under even the most careful handling in the field.

Other factors could also contribute to the final preservation and difficulties encountered in analysing the material. During the first years of excavations (1974-1985) there was no physical anthropologist present who was adequately trained to excavate human skeletons in various soil conditions. Due to the salvage nature of this operation little time could be devoted to a single grave. The lack of experience in excavating the human skeletons among classical archaeologists further contributed to the state of bone preservation. Finally in a few cases the bones were disturbed by grave robbers seeking ancient Greek grave goods.

Despite often poor preservation of the human remains from the rural Metaponto (Table 2.13-1), in 93% of the unearthed skeletons it was possible to determine sex and establish age at death of the individual. Results of sex determination and sex ratio are summarised in the Table 2.13-3 (next page).

Table 2.13-3. Proportion of females, males, children and unsexed individuals from the rural necropolis of Metaponto.

| Burial site | | | No of individuals | | | Total |
|---------------|------------|-----------|-------------------|------------------------|-----------|------------|
| | Female | Male | F/M ratio | Children and youths | Unsexed | |
| Pantanello | 128 | 68 | 1.88 | 42 | 13 | 251 |
| Saldone | 6 | 4 | 1.50 | 3 | 1 | 14 |
| Sant'Angelo | 2 | 4 | 0.50 | 0 | 0 | 6 |
| Celeste | 0 | 1 | - | 0 | 0 | 1 |
| Total | 136 | 77 | 1.77 | 45 | 14 | 272 |
| Proportion(%) | 50.0 | 28.3 | | 16.5 | 5.1 | 99.9 |

The reference sample from the urban cemetery was in a similar state of preservation as conditions at both cemeteries in the Metaponto area in general and during excavations, did not differ much from each other. Among 412 individual skeletons in the total sample excavated at Crucinia there was no complete skeleton, 9% were nearly complete, 52.4% in fragmentary condition and 38.6% very poorly preserved. It was possible to establish sex and estimate age for around 90% of individuals in this sample.

2.14. Other studies conducted on the rural sample

Other studies of the skeletal material from the rural area of Metaponto consisted of reconstructing body size, typing major blood groups on bones, craniometry and facial reconstructions, observations and descriptions of pathological conditions, observations of epigenetic traits and other variations on human skeletons, palaeodemography, and of ecological observations to estimate the caloric needs of the Pantanello population (Henneberg and Henneberg 1987, 1990a, 1990b, 1993, 1998a, Henneberg et al. 1992). A preliminary study to establish whether the cemetery was divided into family plots was also conducted using selected cranial, dental and biochemical characteristics

such as metopism, markers of major blood groups etc. (Henneberg and Henneberg 1998b).

2.2. General description of the dental material

The study of the dentition of the population from ancient Metaponto from the three rural burial sites and also from the urban site was conducted exclusively by the author. Number of teeth recovered for each individual and total number of teeth in the rural and in the reference urban sample are shown in the Tables 2.2-1, 2.2-2 and 2.2-3.

It should be noted that the number of individuals and number of teeth in both samples in each particular investigation fluctuated due to the preservation of the material, conditions of the teeth, for example dental wear and the nature of the problem addressed.

a) rural sample - size and state of preservation

The data collection and analysis of the material from the rural necropoleis began in 1985 and was continued during 1986, 1988, 1990, and 1991.

The dental material analysed in this study consisted of 2325 teeth from 163 adults and permanent dentition of 13 sub adults (Table 2.2-3).

Approximately 60% of teeth were in their sockets or loose but with matching pieces of maxilla and mandible (Figure 2.21-1). The remaining 40% of teeth were found loose in the graves and with no corresponding fragments of the maxilla or mandible. The total number of permanent teeth recovered was 2473 including those of sub adults, and total of 3037 sockets were available for examination.

The average number of teeth per individual recovered during excavation was 14.4 for males and 14.2 for females and the difference between sexes was not statistically significant. For children, this ratio was 10.5 permanent teeth per person as the age of the children varied from 2 to 18 years, and for the youngest children only molars (erupted

or germs) were considered in the analysis. In the entire sample the number of teeth per individual recovered and available for observation was 14.1. This ratio compared well with values for other archaeological dental samples world-wide and used for various analyses (Table 2.2-4). The dental material from Metaponto was then as representative of the entire dentitions as in other archaeological samples allowing further comparisons between populations.

Very few individuals in the sample had complete sets of teeth preserved at death and even fewer had complete dentition recovered during excavation (Table 2.2-1). While only one female out of 104 had a complete set of teeth available for examination this was the case for 5 out of 59 males. The difference was statistically significant as tested with Chi-squared test for proportions in independent samples (Snedecor and Cochran 1982).

In most individuals the teeth were well preserved. However in few cases the entire set of dentition was affected by high soil pH due to chemicals used in modern farming. In such cases the tooth enamel surface was damaged, limiting the author's observations. Some teeth, but very few, were damaged mechanically *post mortem*, when the enamel was chipped off the tooth surface during excavations or cleaning and the damage made measurements of some tooth diameters impossible and other observations unreliable. In such cases the damaged tooth was excluded from the studies. When the tooth diameters could not be measured due to extensive wear or caries, the tooth was still included in the other parts of the analysis. Detailed rules according to which the data on teeth were collected are described in the Methods section.

b)urban sample - reference material, its size and state of preservation

The comparative data from the urban dental sample were gathered during the 1991, 1992, and 1993 as the field work on the Crucinia necropolis and the preliminary analysis of the skeletal material progressed. For the purpose of this thesis collecting of

dental data in this sample was finished when the total number of individuals with teeth examined, approximated the total number of individuals with teeth in the rural sample regardless of sex ratio and number of sub adults. At this time the total number of skeletons with teeth from Crucinia necropolis and population characteristics of the entire urban skeletal sample were still unknown because the examination of the urban material was not completed.

Total number of 2035 permanent teeth and 2509 sockets were available for examination from 175 individuals (90 females, 76 males and 9 subadults). This comprised the reference sample (Table 2.2-3).

The general state of preservation of the urban dental sample was similar to the rural one.

TABLES

Table 2.13-2. List of skeletal material from rural area of Metaponto.

Sex, age and state of preservation. Burial dating.

Females are described as F, males as M, children and youth as Ch, unsexed individuals as ?, probable females as F?, probable males as M?. Age is in years or in months if "ms" is added. An asterisk in the column "dentition" indicates that at least one tooth or a fragment of a jaw with tooth sockets is present.

For dating of the burials see Carter, 1998a.

| No | Tomb # | Dating average yrs BC | Sex | Age | State of preservation | |
|-------------------|---------|-----------------------------|-----|-----------|-----------------------|-----------|
| | | | | | General | Dentition |
| PANTANELLO | | | | | | |
| 1 | 82 10-3 | 450 | F? | adult | very fragm. | |
| 2 | 82 12 | 291 | ? | 35-x | fragm. | * |
| 3 | 82 13-6 | 300 | M | 40-45 | nearly complete | |
| 4 | 82 18-2 | 300 | Ch | 5-6 | one tooth only | * fragm. |
| 5 | 82 19-2 | 360 | M | 30-40 | fragm. | |
| 6 | 82 21-2 | 360 | F | 25-30 | nearly complete | * |
| 7 | 82 22.1 | 458 | F | 45-55 | nearly complete | * |
| 8 | 82 24-1 | 300 | F? | 40-x | very fragm. | |
| 9 | 82 25-1 | 0 | F | 25-35 | fragm. | * |
| 10 | 82 26 | 360 | F | 30-40 | fragm. | |
| 11 | 83 27-5 | 446 | F | 30-35 | fragm. | * |
| 12 | 83 28 | 360 | F | 45-55 | fragm. | * |
| 13 | 86 29-5 | 450 | Ch | new born? | very fragm. | |
| 14 | 83 32 | 300 | M | 50-70 | fragm. | * |
| 15 | 83 35 | 450 | F | 30-40 | fragm. | * |
| 16 | 83 36,a | 375 | F | 30-40 | fragm. | |
| 17 | 83 36,b | 375 | M | 35-45 | fragm. | * |
| 18 | 83 36,c | 375 | F | 25-30 | fragm. | |
| 19 | 83 39-4 | 500 | M | 40-50 | fragm. | |
| 20 | 83 41-3 | 425 | Ch | new born | fragm. | |
| 21 | 83 42-1 | 415 | Ch | 2 | nearly complete | * |
| 22 | 83 43-1 | 340 | F | 40-50 | nearly complete | * |
| 23 | 83 44-1 | 298 | Ch | 1 | very fragm. | |
| 24 | 83 45-1 | 375 | Ch | 2 | fragm. | * |
| 25 | 83 46-1 | 313 | Ch | 5-6 | nearly complete | * |
| 26 | 83 47-3 | 300 | F | 40-50 | fragm. | |
| 27 | 83 48-8 | 404 | F | 25-50 | very fragm. | |
| 28 | 83 49 | 445 | F | 35-40 | nearly complete | * |

| | | | | | | | |
|----|----|--------|-----|----|----------|-----------------|--------|
| 29 | 83 | 50-4 | 410 | F | 30-35 | fragm. | * |
| 30 | 83 | 52 | 325 | M? | 15-19 | fragm. | * |
| 31 | 83 | 53-4 | 450 | M | 30-35 | nearly complete | * |
| 32 | 83 | 54-8 | 463 | F | 20-25 | fragm. | * |
| 33 | 83 | 55-2 | 346 | F? | 25-30 | fragm. | * |
| 34 | 83 | 56-4 | 461 | Ch | 18-24 ms | fragm. | * |
| 35 | 83 | 57-1 | 300 | F | 20-25 | nearly complete | * |
| 36 | 83 | 59 | 375 | F | 35-45 | nearly complete | * |
| 37 | 83 | 62 | 315 | F | 60-70 | fragm. | fragm. |
| 38 | 83 | 62-2 | 315 | ? | adult | very fragm. | |
| 39 | 83 | 64-2 | 338 | F? | 30-40 | fragm. | fragm. |
| 40 | 83 | 66-5 | 430 | F | 22-27 | fragm. | * |
| 41 | 83 | 67 | 300 | F | 70-x | fragm. | * |
| 42 | 83 | 68 A | 310 | M? | 25-40 | very fragm. | |
| 43 | 83 | 69-11 | 406 | F? | 25-30 | nearly complete | * |
| 44 | 83 | 70-3 | 445 | F | 25-30 | fragm. | * |
| 45 | 83 | 71-24 | 303 | F | 20-25 | nearly complete | * |
| 46 | 83 | 72-2 | 300 | F | 70-x | nearly complete | * |
| 47 | 83 | 73-2 | 300 | ? | adult | very fragm. | |
| 48 | 83 | 74-4 | 305 | F | 60-x | fragm. | * |
| 49 | 83 | 75-6 | 292 | M | 25-30 | fragm. | |
| 50 | 83 | 76-7 | 393 | F | 50-60 | nearly complete | |
| 51 | 83 | 77-1 | 450 | Ch | 3-6 | very fragm. | |
| 52 | 83 | 78-7 | 290 | M | 60-70 | nearly complete | * |
| 53 | 83 | 79-3 | 300 | F? | 40-50 | fragm. | * |
| 54 | 83 | 80-1,a | 294 | F | 25-30 | nearly complete | |
| 55 | 83 | 80-1,b | 294 | M | 50-60 | nearly complete | * |
| 56 | 83 | 80-2 | 294 | F | 40-50 | nearly complete | * |
| 57 | 83 | 81-3 | 485 | F | 25-30 | fragm. | * |
| 58 | 83 | 82 | 300 | F | 20-24 | nearly complete | * |
| 59 | 83 | 83-1 | 373 | F | 25-30 | fragm. | |
| 60 | 83 | 84-3 | 373 | ? | adult | very fragm. | |
| 61 | 83 | 85-1 | 294 | M | 25-30 | nearly complete | * |
| 62 | 83 | 86-7 | 422 | F | 35-45 | fragm. | * |
| 63 | 86 | 87 | 410 | Ch | 2-4 | very fragm. | * |
| 64 | 83 | 88 | 423 | Ch | 3 | very fragm. | * |
| 65 | 83 | 90-2 | 300 | ? | 20-40 | very fragm. | |
| 66 | 83 | 91 | 300 | F | 25-30 | fragm. | * |
| 67 | 83 | 92 | 300 | F | 40-50 | nearly complete | * |
| 68 | 83 | 93-3 | 288 | M | 70-x | fragm. | * |
| 69 | 83 | 94-5 | 288 | M | 20-25 | nearly complete | * |
| 70 | 83 | 95 | 423 | Ch | 10-14 | very fragm. | * |
| 71 | 83 | 96-3 | 341 | F? | 20-25 | very fragm. | * |

| | | | | | | |
|-----|----------|-----|----|------------|-----------------|----------|
| 72 | 83 97 | 373 | F | 20-25 | fragm. | * |
| 73 | 83 98-3 | 450 | Ch | 2-6 | very fragm. | |
| 74 | 83 99 | 300 | F | 25-35 | nearly complete | * |
| 75 | 83 100-5 | 300 | F | 25-30 | fragm. | |
| 76 | 83 101-2 | 300 | F? | 20-40? | very fragm. | |
| 77 | 83 102-4 | 288 | F | 70-x | fragm. | |
| 78 | 83 103-4 | 288 | M | 20-25 | nearly complete | |
| 79 | 83 104-4 | 300 | ? | adult | very fragm. | |
| 80 | 83 106 | 405 | M | 25-30 | fragm. | * |
| 81 | 83 107 | 420 | M? | 25-40 | very fragm. | |
| 82 | 83 108-2 | 488 | Ch | 0-1 inf. | very fragm. | |
| 83 | 83 110 | 390 | F | 50-60 | nearly complete | * |
| 84 | 83 111 | 299 | F | 25-30 | nearly complete | * |
| 85 | 83 114 | 375 | Ch | 12-18 ms | fragm. | * |
| 86 | 83 115 | 410 | F | 22-25 | nearly complete | * fragm. |
| 87 | 83 116 | 390 | Ch | new born | very fragm. | |
| 88 | 83 116-4 | 390 | Ch | 3-4 | fragm. | * |
| 89 | 83 117 | 385 | M | 30-40 | nearly complete | * |
| 90 | 83 118 | 360 | F | 30-40 | fragm. | |
| 91 | 83 119 | 299 | M? | 25-35 | very fragm. | * |
| 92 | 83 124 | 340 | M | 20-25 | nearly complete | * |
| 93 | 83 125 | 313 | F | 25-30 | nearly complete | * |
| 94 | 83 127 | 385 | M | 70-x | nearly complete | * |
| 95 | 83 128 | 392 | F | 40-60 | fragm. | * fragm. |
| 96 | 83 129 | 480 | F | 60-x | fragm. | * |
| 97 | 83 130 | 496 | Ch | 8-10 | fragm. | * |
| 98 | 83 131 | 513 | F | 35-45 | nearly complete | * |
| 99 | 83 132 | 294 | F | 22-25 | nearly complete | * |
| 100 | 83 133 | 300 | F | 50-60 | nearly complete | * |
| 101 | 83 136 | 419 | F | 20-25 | nearly complete | * |
| 102 | 83 137 | 500 | F | 35-40 | fragm. | * |
| 103 | 83 142 | 395 | F? | 25-30 | nearly complete | * |
| 104 | 83 143 | 309 | F | 40-50 | fragm. | * |
| 105 | 83 144 | 296 | F | 30-35 | nearly complete | * |
| 106 | 83 145-4 | 350 | M | 30-35 | nearly complete | * |
| 107 | 83 149-4 | 445 | F | 30-40 | nearly complete | * |
| 108 | 83 150 | 300 | M | 25-x | very fragm. | |
| 109 | 83 151 | 450 | Ch | 3-4 | nearly complete | * |
| 110 | 83 152 | 379 | M | 40-50 | nearly complete | |
| 111 | 83 153 | 395 | M | 25-35 | fragm. | * |
| 112 | 83 154 | 398 | F? | 30-40 | very fragm. | |
| 113 | 83 155 | 345 | F | 30-40 | fragm. | * |
| 114 | 83 156-6 | 350 | Ch | 0-11mos,ir | very fragm. | |

| | | | | | | |
|-----|------------|-----|-----|------------|-----------------|----------|
| 115 | 83 158 | 538 | F | 30-40 | fragm. | * fragm. |
| 116 | 83 160 | 373 | M | 40-50 | nearly complete | * |
| 117 | 83 162 | 373 | Ch | 10-14? | very fragm. | * |
| 118 | 83 164 | 380 | F? | 20-25 | very fragm. | * |
| 119 | 83 188 | 458 | M? | 50-60 | fragm. | |
| 120 | 83 189 | 303 | F | 50-x | fragm. | |
| 121 | 83 190 | 293 | M | 22-25 | nearly complete | * |
| 122 | 83 191,a | 550 | F | 35-45 | very fragm. | |
| 123 | 83 191,b | 550 | Ch | +/-6mos,in | fragm. | |
| 124 | 83 192 | 300 | Ch | | fragm. | |
| 125 | 83 195-5,a | 309 | F | 25-40 | fragm. | |
| 126 | 83 195-5,b | 309 | Ch | 6-7 | fragm. | * |
| 127 | 83 196 | 478 | F | 30-40 | fragm. | * |
| 128 | 83 197-2 | 373 | F | 25-40 | very fragm. | * |
| 129 | 83 198-5 | 392 | F | 30-40 | fragm. | * |
| 130 | 83 209 | 433 | M? | 20-25 | fragm. | * |
| 131 | 83 210,a | 470 | F | 25-30 | fragm. | * |
| 132 | 83 210,b | 412 | Ch | ? | very fragm. | |
| 133 | 83 212-7 | 404 | F | 15-19 | fragm. | * |
| 134 | 83 213 | 395 | F | 35-40 | fragm. | * |
| 135 | 83 215-1 | 458 | M? | 30-40 | very fragm. | * |
| 136 | 84 216-4 | 385 | M | 25-30 | fragm. | * |
| 137 | 84 217 | 457 | F | 25-35 | nearly complete | * |
| 138 | 84 218 | 458 | F | 35-45? | fragm. | * |
| 139 | 84 219-1 | 390 | F | 25-30 | fragm. | * |
| 140 | 84 219-1-B | 390 | F? | 30-40 | very fragm. | * |
| 141 | 84 220-3 | 455 | M | 30-35 | nearly complete | * |
| 142 | 84 221 | 455 | M | 25-30 | fragm. | * fragm. |
| 143 | 84 222-3 | 391 | F? | 20-25 | fragm. | * |
| 144 | 84 223 | 483 | F | 40-50 | nearly complete | * |
| 145 | 84 224 | 513 | F? | adult | very fragm. | |
| 146 | 84 225-1 | 458 | M | 30-40 | fragm. | * |
| 147 | 84 226 | 385 | F | 30-40 | fragm. | |
| 148 | 84 228 | 412 | M | 20-25 | fragm. | * |
| 149 | 84 229 | 395 | M | 50-60 | nearly complete | |
| 150 | 84 231-1 | 387 | M | 20-25 | fragm. | * |
| 151 | 84 232 | 300 | M?? | 25-x | very fragm. | |
| 152 | 84 233 | 288 | ? | adult | very fragm. | |
| 153 | 84 234-1 | 373 | M? | 60-x | fragm. | * |
| 154 | 84 235 | 429 | F | 20-25 | fragm. | * |
| 155 | 84 236-3 | 468 | F? | 40-50 | fragm. | * |
| 156 | 84 238 | 373 | F? | adult | very fragm. | |
| 157 | 84 239-1 | 425 | Ch | 1-1.5 | fragm. | * |

| | | | | | | |
|-----|-------------|-----|----|----------|-----------------|----------|
| 158 | 84 240-3 | 445 | M | 30-40 | fragm. | |
| 159 | 84 241-1 | 375 | Ch | 4-5 | fragm. | * |
| 160 | 84 242-1 | 375 | Ch | 0-1,inf. | very fragm. | |
| 161 | 84 243-5 | 297 | F | 25-30 | nearly complete | |
| 162 | 84 244 | 450 | M | 25-30 | fragm. | * |
| 163 | 84 245-4 | 424 | F | 40-50 | nearly complete | * |
| 164 | 84 246-3 | 450 | M? | 70-x | fragm. | * |
| 165 | 84 247a,b-f | 600 | M? | 50-x | fragm. | * |
| 166 | 84 248-3 | 440 | Ch | 2 | fragm. | * |
| 167 | 84 249 | 458 | M | 60-x | fragm. | * |
| 168 | 84 250-4 | 425 | F? | adult | very fragm. | |
| 169 | 84 251 | 420 | F | 60-x | nearly complete | * |
| 170 | 84 252-9 | 427 | F | 25-30 | fragm. | * |
| 171 | 84 253-3 | 300 | F | 70-x | fragm. | * |
| 172 | 84 254-2 | 310 | F? | 25-x | very fragm. | |
| 173 | 84 255-2 | 445 | F | 60-x | fragm. | * |
| 174 | 84 256-6 | 450 | Ch | 2 | fragm. | * |
| 175 | 84 257-1 | 300 | F | 40-50 | nearly complete | * |
| 176 | 84 258-5 | 298 | F | 70-x | nearly complete | * fragm. |
| 177 | 84 259-7 | 420 | F | 50-60 | fragm. | * |
| 178 | 84 260-1 | 450 | F | 50-60 | fragm. | * |
| 179 | 84 261-2 | 450 | F | 30-40 | fragm. | * |
| 180 | 84 263 | 450 | Ch | 0-1,inf. | very fragm. | |
| 181 | 84 265-2 | 480 | M | 50-60 | nearly complete | * |
| 182 | 84 266 | 466 | M | 30-35 | nearly complete | * |
| 183 | 84 268 | 373 | Ch | 2-3 | fragm. | * |
| 184 | 84 269 | 375 | Ch | 0-2ms. | very fragm. | |
| 185 | 84 270 | 288 | ? | adult | very fragm. | |
| 186 | 84 271 | 390 | Ch | 0-3ms. | very fragm. | * fragm. |
| 187 | 84 272 | 480 | ? | adult | very fragm. | |
| 188 | 84 272-1 | 480 | M | 40-50 | fragm. | * |
| 189 | 84 273-2 | 480 | M | 60-x | fragm. | * |
| 190 | 84 275 | 458 | M | 60-70 | nearly complete | * |
| 191 | 84 276-1 | 563 | M | 25-40 | nearly complete | * |
| 192 | 84 277-4 | 575 | F? | 18-22 | fragm. | * |
| 193 | 84 278-1 | 505 | F | 30-35 | nearly complete | * |
| 194 | 84 280-1 | 360 | M | 50-60 | nearly complete | * |
| 195 | 84 281-4 | 360 | F | 40-50 | fragm. | * |
| 196 | 84 285 | 373 | M? | 25-35 | very fragm. | |
| 197 | 84 286 | 0 | ? | adult | very fragm. | |
| 198 | 84 290 | 300 | F | 40-50 | fragm. | * |
| 199 | 86 292 | 508 | M? | 18-22 | fragm. | * |
| 200 | 86 293 | 442 | F | 27-32 | nearly complete | * |

| | | | | | | |
|-----|----------|-----|----|--------------|-----------------|----------|
| 201 | 86 294 | 450 | F | 60-x | fragm. | * |
| 202 | 86 295 | 459 | Ch | 12-15 | fragm. | * |
| 203 | 86 296 | 475 | F | 35-40 | nearly complete | * |
| 204 | 86 299 | 590 | F | 25-35 | fragm. | * |
| 205 | 86 300 | 450 | M? | 22-27 | fragm. | * |
| 206 | 86 301 | 665 | F? | 35-45 | fragm. | * |
| 207 | 86 302 | 390 | F | 50-60 | nearly complete | * |
| 208 | 86 303 | 403 | F | 25-30 | nearly complete | * |
| 209 | 86 306 | 386 | ? | 15-18 | fragm. | * |
| 210 | 86 307 | 425 | Ch | 3-6ms.inf. | fragm. | |
| 211 | 86 308 | 460 | Ch | 0-6ms.inf. | fragm. | |
| 212 | 86 310 | 450 | F | 22-27 | fragm. | * |
| 213 | 86 311 | 450 | ? | adult | very fragm. | |
| 214 | 86 312 | 448 | Ch | 0-6ms.inf. | very fragm. | |
| 215 | 86 313 | 458 | M | 30-35 | fragm. | * |
| 216 | 86 314 | 360 | F? | 25-30 | very fragm. | * |
| 217 | 86 315,a | 405 | M? | 25-30 | very fragm. | * |
| 218 | 86 315,b | 405 | Ch | 3-7 | very fragm. | |
| 219 | 86 317 | 340 | M | 25-35 | very fragm. | |
| 220 | 86 318 | 380 | F | 25-30 | fragm. | * |
| 221 | 86 320 | 600 | ? | 15-19 | fragm. | * |
| 222 | 86 321 | 460 | M | 15-19 | very fragm. | |
| 223 | 86 322 | 400 | M | 30-40 | fragm. | * |
| 224 | 86 324 | 450 | F | 60-x | nearly complete | * |
| 225 | 86 326 | 445 | F | 50-x | fragm. | * |
| 226 | 86 327 | 373 | M | 35-45 | nearly complete | * fragm. |
| 227 | 86 328 | 313 | F | 25-x | very fragm. | |
| 228 | 86 329 | 450 | M | 50-60 | nearly complete | |
| 229 | 86 330 | 405 | Ch | 12-24ms.inf. | very fragm. | |
| 230 | 86 331 | 434 | F | 30-40 | fragm. | * |
| 231 | 86 334 | 425 | M | 25-35 | nearly complete | |
| 232 | 86 335 | 450 | F | 50-60 | nearly complete | * |
| 233 | 86 336 | 456 | M | 40-50 | nearly complete | * |
| 234 | 86 337 | 467 | Ch | 0-3ms.inf. | very fragm. | * fragm. |
| 235 | 86 338 | 375 | M | 30-40 | nearly complete | * |
| 236 | 86 339 | 474 | F | 20-25 | fragm. | * |
| 237 | 86 340 | 460 | F | 30-35 | fragm. | * |
| 238 | 86 341 | 390 | F | 25-30 | very fragm. | * fragm. |
| 239 | 86 342 | 396 | M | 30-35 | fragm. | * |
| 240 | 86 343 | 311 | M | 50-x | fragm. | * |
| 241 | 86 345 | 393 | Ch | 1-6ms.inf. | very fragm. | * |
| 242 | 86 346 | 390 | Ch | 4-5 | nearly complete | * |
| 243 | 86 347 | 390 | M | 60-x | nearly complete | * |

| | | | | | | |
|-----|--------|-----|---|--------|-----------------|---|
| 244 | 86.350 | 448 | F | 25-30 | nearly complete | * |
| 245 | 86.351 | 395 | M | 40-50 | nearly complete | * |
| 246 | 86.352 | 395 | F | 30-35 | nearly complete | * |
| 247 | 86.354 | 435 | F | 20-25 | nearly complete | * |
| 248 | 86.356 | 600 | F | 30-35 | nearly complete | * |
| 249 | 86.357 | 600 | F | 20-25 | very fragm. | * |
| 250 | 86.358 | 475 | F | 20-25? | nearly complete | * |
| 251 | 86.359 | 458 | ? | adult | very fragm. | |

"CELESTE"

| | | | | | | |
|-----|----------|---|---|-------|--------|---|
| 252 | 78 Sanc. | 0 | M | 25-35 | fragm. | * |
|-----|----------|---|---|-------|--------|---|

"SALDONE"

| | | | | | | |
|-----|------------|-----|-----|--------|-----------------|---|
| 253 | I (SS-2),a | 458 | F | 40-50 | fragm. | * |
| 254 | I (SS-2),b | 458 | Ch | +/- 2 | very fragm. | * |
| 255 | 7 | 444 | Ch | 0-1 | very fragm. | |
| 256 | 8 | 440 | F?? | 30-40 | fragm. | * |
| 257 | 12 | 430 | Ch | 8-12 | fragm. | * |
| 258 | 15 | 465 | F | 25-30 | fragm. | * |
| 259 | 16 | 435 | M? | 40-50 | fragm. | * |
| 260 | 15A,16A,18 | 425 | ? | adults | very fragm. | |
| 261 | 20 | 432 | M? | 25-30 | fragm. | * |
| 262 | 21 | 389 | F | 20-25 | nearly complete | * |
| 263 | 24 | 405 | M? | 25-30 | fragm. | * |
| 264 | 25 | 390 | M | 35-45 | nearly complete | * |
| 265 | 26 | 423 | F | 35-45 | fragm. | * |
| 266 | 27 | 405 | F | 50-60 | fragm. | * |

SANT'ANGELO

| | | | | | | |
|-----|------------|-----|---|-------|-----------------|---|
| 267 | N.T. F-6 | 450 | F | 22-25 | nearly complete | * |
| 268 | S.T. F-6 | 440 | M | 60-x | nearly complete | * |
| 269 | 1 | 449 | M | 25-30 | nearly complete | * |
| 270 | 79,F-6,G-6 | 373 | M | 25-30 | fragm. | * |
| 271 | 79,H-6 | 430 | F | 70-x | nearly complete | * |
| 272 | 79,G-6 I.3 | 430 | M | 50-60 | nearly complete | * |

Table 2.2-1. Dental remains from rural necropoleis (Pantanello, Saldone, Sant'Angelo and Celeste).

| No | Tomb No | Burial dates range in yrs BC# | Sex | Age of indiv. | No of teeth* | No of tooth sockets** | No of teeth lost before death |
|-------------------------------|---------|-------------------------------------|-----|------------------|-----------------|--------------------------|-------------------------------------|
| F E M A L E S (F, F?, F??)*** | | | | | | | |
| 1 | 21-2 | 370-350 | F | 25-30 | 5 | 14 | |
| 2 | 22-1 | 525-390 | F | 45-55 | 5 | 18 | 3 |
| 3 | 25-1 | - | F | 25-35 | 23 | 26 | |
| 4 | 27-5 | 467-424 | F | 30-35 | 6 | 6 | |
| 5 | 28 | 370-350 | F | 45-55 | 7 | 20 | 6 |
| 6 | 35 | 500-400 | F | 30-40 | 9 | 11 | 2 |
| 7 | 43-1 | 350-330 | F | 40-50 | 2 | 7 | |
| 8 | 49 | 460-430 | F | 35-40 | 20 | 24 | 3 |
| 9 | 50-4 | 420-400 | F | 30-35 | 30 | 31 | |
| 10 | 54-8 | 470-455 | F | 20-25 | 3 | 3 | |
| 11 | 57-1 | 325-275 | F | 20-25 | 26 | 28 | |
| 12 | 59 | 400-350 | F | 35-45 | 13 | 26 | 3 |
| 13 | 66-5 | 460-440 | F | 22-27 | 28 | 29 | |
| 14 | 67 | 325-275 | F | 70-x | 13 | 21 | 4 |
| 15 | 69-11 | 420-391 | F? | 25-30 | 26 | 30 | |
| 16 | 70-3 | 460-430 | F | 25-30 | 3 | 3 | |
| 17 | 71-24 | 312-293 | F | 20-25 | 6 | 6 | |
| 18 | 72-2 | 325-275 | F | 70-x | 11 | 14 | 3 |
| 19 | 74-4 | 330-280 | F | 60-x | 11 | 15 | 2 |
| 20 | 79-3 | 320-280 | F? | 40-50 | 4 | 4 | 1 |
| 21 | 80-2 | 304-283 | F | 40-50 | 24 | 32 | 4 |
| 22 | 81-3 | 490-480 | F | 25-30 | 10 | 15 | 1 |
| 23 | 82 | 325-275 | F | 20-24 | 19 | 22 | |
| 24 | 86-7 | 440-403 | F | 35-45 | 14 | 16 | 1 |
| 25 | 91 | 318-282 | F | 25-30 | 4 | 4 | |
| 26 | 92 | 325-275 | F | 40-50 | 17 | 19 | 2 |
| 27 | 96-3 | 354-328 | F? | 20-25 | 15 | 15 | |
| 28 | 97 | 470-275 | F | 20-25 | 1 | 1 | |
| 29 | 99 | 325-275 | F | 30-35 | 29 | 30 | |
| 30 | 110 | 400-380 | F | 50-60 | 20 | 24 | 1 |
| 31 | 111 | 317-281 | F | 25-30 | 11 | 14 | |
| 32 | 125 | 325-300 | F | 25-30 | 25 | 28 | 2 |
| 33 | 129 | 525-435 | F | 60-x | 7 | 13 | 6 |
| 34 | 131 | 525-500 | F | 35-45 | 11 | 15 | |

| | | | | | | | |
|----|---------|---------|----|-------|----|----|----|
| 35 | 132 | 313-275 | F | 22-25 | 19 | 19 | |
| 36 | 133 | 325-275 | F | 50-60 | 2 | 4 | 2 |
| 37 | 136 | 435-403 | F | 20-25 | 30 | 31 | |
| 38 | 137 | 505-495 | F | 35-40 | 18 | 18 | |
| 39 | 142 | 410-380 | F? | 25-30 | 12 | 15 | 1 |
| 40 | 143 | 325-292 | F | 40-50 | 14 | 26 | 1 |
| 41 | 144 | 305-287 | F | 30-35 | 24 | 31 | |
| 42 | 149-4 | 455-435 | F | 30-40 | 16 | 25 | 2 |
| 43 | 155 | 360-330 | F | 30-40 | 4 | 7 | |
| 44 | 158 | 550-525 | F | 30-40 | 1 | 1 | |
| 45 | 164 | 400-360 | F? | 20-25 | 21 | 21 | |
| 46 | 195-5 | 341-276 | F | 25-40 | 4 | 4 | |
| 47 | 196 | 485-470 | F | 30-40 | 12 | 13 | |
| 48 | 198-5 | 414-370 | F | 30-40 | 10 | 10 | |
| 49 | 210 | 480-460 | F | 25-30 | 26 | 28 | 1 |
| 50 | 212-7 | 421-387 | F | 15-19 | 16 | 16 | |
| 51 | 213 | 420-370 | F | 35-40 | 11 | 12 | 1 |
| 52 | 217 | 470-444 | F | 25-35 | 8 | 19 | 4 |
| 53 | 218 | 468-447 | F | 35-45 | 15 | 26 | |
| 54 | 219-1 | 400-380 | F | 25-30 | 21 | 21 | |
| 55 | 219-1-B | 400-380 | F | 30-40 | 6 | 6 | |
| 56 | 222-3 | 469-440 | F? | 20-25 | 14 | 14 | |
| 57 | 223 | 495-470 | F | 40-50 | 13 | 25 | |
| 58 | 235 | 446-412 | F | 20-25 | 8 | 14 | |
| 59 | 236-3 | 480-456 | F? | 40-50 | 8 | 13 | 3 |
| 60 | 243-5 | 311-282 | F | 25-30 | 2 | 9 | 5 |
| 61 | 245-4 | 467-452 | F | 40-50 | 26 | 32 | |
| 62 | 251 | 460-380 | F | 60-x | 8 | 21 | 4 |
| 63 | 252-9 | 439-415 | F | 25-30 | 17 | 17 | |
| 64 | 253-3 | 325-275 | F | 70-x | 2 | 16 | 13 |
| 65 | 255-2 | 490-400 | F | 60-x | 3 | 17 | 5 |
| 66 | 257-1 | 325-275 | F | 40-50 | 14 | 14 | |
| 67 | 259-7 | 440-400 | F | 50-60 | 2 | 2 | 1 |
| 68 | 260-1 | 460-440 | F | 50-60 | 7 | 11 | |
| 69 | 261-2 | 460-440 | F | 30-40 | 28 | 29 | 1 |
| 70 | 277-4 | 600-550 | F? | 18-22 | 28 | 28 | |
| 71 | 278-1 | 520-490 | F | 30-35 | 23 | 26 | 3 |
| 72 | 281-4 | 370-350 | F | 40-50 | 16 | 18 | 2 |
| 73 | 290 | 325-275 | F | 40-50 | 9 | 28 | 8 |
| 74 | 293 | 450-400 | F | 27-32 | 13 | 27 | 7 |
| 75 | 294 | 460-440 | F | 60-x | 9 | 10 | 1 |
| 76 | 296 | 480-470 | F | 35-40 | 23 | 23 | |
| 77 | 299 | 820-360 | F | 25-35 | 2 | 2 | |
| 78 | 301 | 950-450 | F? | 35-45 | 8 | 11 | 3 |

| | | | | | | | |
|-----|---------|---------|-----|-------|------|------|-----|
| 79 | 302 | 400-380 | F | 50-60 | 19 | 22 | 2 |
| 80 | 303 | 426-379 | F | 25-30 | 31 | 32 | |
| 81 | 310 | 460-440 | F | 22-27 | 4 | 6 | 1 |
| 82 | 314 | 370-350 | F? | 25-30 | 4 | 4 | |
| 83 | 318 | 400-360 | F | 25-30 | 30 | 30 | |
| 84 | 324 | 460-440 | F | 60-x | 13 | 20 | 6 |
| 85 | 326 | 456-433 | F | 50-x | 5 | 5 | |
| 86 | 331 | 442-427 | F | 30-40 | 18 | 19 | 1 |
| 87 | 335 | 460-440 | F | 50-60 | 19 | 22 | 1 |
| 88 | 339 | 480-467 | F | 20-25 | 29 | 32 | |
| 89 | 340 | 480-440 | F | 30-35 | 12 | 12 | |
| 90 | 341 | 400-380 | F | 25-30 | 13 | 13 | |
| 91 | 350 | 458-438 | F | 25-30 | 28 | 28 | |
| 92 | 352 | 420-370 | F | 30-35 | 18 | 30 | 4 |
| 93 | 354 | 440-429 | F | 20-25 | 9 | 9 | |
| 94 | 356 | 900-275 | F | 30-35 | 30 | 32 | |
| 95 | 357 | 900-275 | F | 20-25 | 16 | 16 | |
| 96 | 358 | 900-450 | F | 20-25 | 8 | 8 | |
| 97 | Sal-1 | 525-390 | F | 40-50 | 20 | 22 | 2 |
| 98 | Sal-8 | 447-433 | F?? | 30-40 | 28 | 28 | |
| 99 | Sal-15 | 475-454 | F | 25-30 | 22 | 25 | 3 |
| 100 | Sal-21 | 406-371 | F | 20-25 | 27 | 28 | |
| 101 | Sal-26 | 440-406 | F | 35-45 | 5 | 7 | |
| 102 | Sal-27 | 425-384 | F | 50-60 | 2 | 8 | 5 |
| 103 | SA-E-6N | 460-440 | F | 22-25 | 27 | 27 | 1 |
| 104 | SA-H-6 | 441-419 | F | 70-x | 9 | 16 | 7 |
| | | | | sum | 1477 | 1845 | 145 |

M A I L S (M, M?, M??)***

| | | | | | | | |
|----|------|---------|----|-------|----|----|---|
| 1 | 13-6 | 320-280 | M | 40-45 | 17 | 17 | |
| 2 | 32 | 325-275 | M | 50-70 | 8 | 8 | |
| 3 | 36 | 500-250 | M | 35-45 | 4 | 4 | |
| 4 | 53-4 | 460-440 | M | 30-35 | 17 | 18 | 1 |
| 5 | 78-7 | 305-275 | M | 60-70 | 2 | 25 | 8 |
| 6 | 80-1 | 304-283 | M | 50-60 | 27 | 29 | 2 |
| 7 | 85-1 | 313-275 | M | 25-30 | 5 | 12 | 2 |
| 8 | 93-3 | 300-275 | M | 70-x | 9 | 9 | |
| 9 | 94-5 | 305-275 | M | 20-25 | 32 | 32 | |
| 10 | 106 | 425-385 | M | 25-30 | 29 | 29 | |
| 11 | 117 | 400-370 | M | 30-40 | 2 | 5 | |
| 12 | 119 | 323-275 | M? | 25-35 | 11 | 11 | |

| | | | | | | | |
|----|--------|---------|-----|-------|----|----|---|
| 13 | 124 | 350-330 | M | 20-25 | 28 | 29 | |
| 14 | 127 | 408-362 | M | 70-x | 4 | 4 | |
| 15 | 145-4 | 360-340 | M | 30-35 | 28 | 32 | |
| 16 | 153 | 420-370 | M | 25-35 | 13 | 14 | |
| 17 | 160 | 470-275 | M | 40-50 | 3 | 3 | |
| 18 | 188 | 525-390 | M? | 50-60 | | 11 | 4 |
| 19 | 190 | 310-275 | M | 22-25 | 28 | 32 | 2 |
| 20 | 209 | 441-424 | M? | 20-25 | 28 | 30 | |
| 21 | 215-1 | 525-390 | M? | 30-40 | 3 | 5 | |
| 22 | 216-4 | 400-370 | M | 25-30 | 26 | 26 | |
| 23 | 220-3 | 470-440 | M | 30-35 | 17 | 17 | |
| 24 | 225-1 | 525-390 | M | 30-40 | 5 | 10 | |
| 25 | 228 | 443-381 | M | 20-25 | 27 | 27 | |
| 26 | 231-1 | 409-364 | M | 20-25 | 4 | 9 | 1 |
| 27 | 234-1 | 470-275 | M? | 60-x | 4 | 4 | |
| 28 | 240-3 | 460-430 | M | 30-40 | | 11 | 6 |
| 29 | 244 | 460-430 | M | 25-30 | 28 | 29 | 1 |
| 30 | 247 | 600-450 | M? | 50-x | 1 | 3 | |
| 31 | 249 | 525-390 | M | 60-x | 15 | 15 | |
| 32 | 265-2 | 525-425 | M | 50-60 | 9 | 11 | |
| 33 | 266 | 480-452 | M | 30-35 | 21 | 22 | |
| 34 | 272-1 | 525-435 | M | 40-50 | 16 | 17 | |
| 35 | 273-2 | 525-435 | M? | 60-x | 18 | 22 | 4 |
| 36 | 275 | 525-390 | M | 60-70 | 9 | 19 | |
| 37 | 276-1 | 575-550 | M?? | 30-40 | 15 | 15 | |
| 38 | 280-1 | 370-350 | M | 50-60 | 7 | 25 | 8 |
| 39 | 292 | 513-503 | M? | 18-22 | 31 | 31 | |
| 40 | 300 | 460-440 | M | 22-27 | 20 | 20 | |
| 41 | 313 | 525-390 | M | 30-35 | 5 | 5 | |
| 42 | 315 | 440-370 | M? | 25-30 | 17 | 21 | |
| 43 | 322 | 420-380 | M | 30-40 | 28 | 28 | |
| 44 | 327 | 470-275 | M | 35-45 | | 3 | 2 |
| 45 | 336 | 469-442 | M | 40-45 | 32 | 32 | |
| 46 | 338 | 475-275 | M | 30-40 | 12 | 25 | 5 |
| 47 | 342 | 420-371 | M | 30-35 | 5 | 5 | |
| 48 | 343 | 322-300 | M | 50-x | 2 | 15 | 4 |
| 49 | 347 | 410-370 | M | 60-x | 17 | 29 | 6 |
| 50 | 351 | 420-370 | M | 40-50 | 4 | 5 | 1 |
| 51 | Sal-16 | 450-400 | M? | 40-50 | 4 | 10 | 6 |
| 52 | Sal-20 | 446-417 | M? | 25-30 | 18 | 19 | |
| 53 | Sal-24 | 440-370 | M? | 25-30 | 20 | 23 | |
| 54 | Sal-25 | 410-370 | M | 35-45 | 31 | 32 | 1 |
| 55 | SA-1 | 466-431 | M | 25-30 | 32 | 32 | |
| 56 | SA-F-6 | 460-420 | M | 60-x | 8 | 11 | 2 |

| | | | | | | | |
|----|----------|---------|---|-------|-----|------|----|
| 57 | SA-EG-6 | 470-275 | M | 25-30 | 27 | 28 | |
| 58 | SA-G-6-3 | 441-419 | M | 50-60 | 5 | 18 | 12 |
| 59 | Celeste | - | M | 25-35 | 10 | 10 | |
| | | | | sum | 848 | 1043 | 78 |

CHILDREN and YOUTH ****

| | | | | | | | |
|----|--------|---------|----|-------|-----|-----|--|
| 1 | 46-1 | 325-300 | Ch | 5-6 | 6 | 6 | |
| 2 | 52 | 330-320 | Ch | 15-19 | 26 | 27 | |
| 3 | 95-25 | 443-403 | Ch | 10-14 | 3 | 3 | |
| 4 | 130 | 504-488 | Ch | 8-10 | 12 | 12 | |
| 5 | 151 | 460-440 | Ch | 4-5 | 2 | 2 | |
| 6 | 195-5 | 341-276 | Ch | 6-7 | 5 | 5 | |
| 7 | 241-1 | 475-275 | Ch | 4-5 | 6 | 6 | |
| 8 | 268 | 470-275 | Ch | 2-3 | 3 | 3 | |
| 9 | 295 | 472-445 | Ch | 12-15 | 14 | 14 | |
| 10 | 306 | 400-372 | Ch | 15-18 | 27 | 27 | |
| 11 | 320 | 850-250 | Ch | 15-19 | 30 | 30 | |
| 12 | 346 | 410-370 | Ch | 4-5 | 3 | 3 | |
| 13 | Sal-12 | 440-420 | Ch | 8-12 | 11 | 11 | |
| | | | | sum | 148 | 149 | |

* - Number of teeth with at least a part of a crown available for observation

** - Number of sockets available for observation

*** - F-female, F?-very probable female, F??-probable female, F???-probable female but estimation very difficult

M, M?, M??, M???? - as for females

**** - Measurements and other observations were made only on permanent dentition (on crowns of developing teeth)

- burial dates from Carter (1998a)

Table 2.2-2. Dental remains from urban necropolis Crucinia.

| No | Tomb No | Sex | Age of indiv. | No of teeth* | No of tooth sockets** | No of teeth lost before death |
|--|---------|-----|---------------|--------------|-----------------------|-------------------------------|
| <i>F E M A L E S (F, F?, F??, F???)***</i> | | | | | | |
| 1 | "Z" | F | 18-22 | 15 | 17 | |
| 2 | 1 | F? | 30-40? | 3 | 9 | |
| 3 | 14 | F? | 20-25 | 4 | 4 | |
| 4 | 70 | F? | adult | 1 | 1 | |
| 5 | 97 | F? | 22-30 | 19 | 19 | |
| 6 | 102 | F | 50-x | 19 | 24 | |
| 7 | 112 | F | 50-x | 1 | 8 | 7 |
| 8 | 115 | F | 50-x | 10 | 14 | 1 |
| 9 | 117 | F? | 50-x | 4 | 5 | 1 |
| 10 | 120 | F | 25-35 | 3 | 3 | |
| 11 | 126 | F | 60-x | | 4 | 4 |
| 12 | 130 | F | 25-30 | 20 | 21 | |
| 13 | 139 | F | 35-40 | 6 | 8 | |
| 14 | 143 | F | 30-40 | 5 | 9 | |
| 15 | 148 | F | 25-35 | 22 | 22 | |
| 16 | 154 | F? | 30-40? | 5 | 5 | |
| 17 | 163 | F? | 40-50 | 27 | 27 | |
| 18 | 164 | F | 25-30 | 14 | 15 | |
| 19 | 174 | F | 30-40 | 9 | 10 | 1 |
| 20 | 181 | F | 25-35 | 1 | 7 | |
| 21 | 195 | F | 22-27 | 5 | 5 | |
| 22 | 198 | F | 25-30 | 24 | 28 | |
| 23 | 211 | F | 40-45 | 29 | 32 | |
| 24 | 217 | F? | 25-35? | 2 | 3 | 1 |
| 25 | 218 | F | 20-30 | 18 | 21 | 3 |
| 26 | 223 | F? | 30-40 | 3 | 6 | 1 |
| 27 | 224 | F | 20-25 | 2 | 2 | |
| 28 | 225 | F | 45-50 | 19 | 20 | 1 |
| 29 | 227 | F | 30-40 | 8 | 17 | 8 |
| 30 | 230 | F | 30-40 | 29 | 31 | |
| 31 | 231 | F | 50-60 | 9 | 16 | 1 |
| 32 | 249 | F | 30-40 | 21 | 26 | 4 |
| 33 | 256 | F | 40-50 | 3 | 3 | |
| 34 | 278 | F?? | 35-40 | 7 | 7 | |
| 35 | 279 | F? | 50-x | 2 | 12 | 7 |

| | | | | | | |
|----|-------|-----|--------|----|----|----|
| 36 | 282A | F | 25-35 | 30 | 32 | |
| 37 | 286 | F? | 60-x | 5 | 8 | 3 |
| 38 | 290 | F? | 50-x | 7 | 7 | |
| 39 | 291 | F? | 40-60 | 2 | 3 | |
| 40 | 302B | F? | 15-19 | 8 | 9 | |
| 41 | 305B | F | 60-x | 6 | 12 | 6 |
| 42 | 311 | F | 30-40 | 1 | 8 | 1 |
| 43 | 312 | F | 30-40 | 23 | 32 | |
| 44 | 317A | F | 30-40 | 1 | 1 | |
| 45 | 325 | F | 25-30? | 26 | 32 | |
| 46 | 345 | F | 25-30 | 23 | 25 | |
| 47 | 346 | F | 20-30 | 27 | 32 | |
| 48 | 358-2 | F | 30-40 | 22 | 25 | |
| 49 | 362 | F | 25-30 | 18 | 19 | |
| 50 | 365 | F | 30-50 | 2 | 2 | |
| 51 | 366 | F | 60-70 | | 16 | 16 |
| 52 | 376 | F? | 30-40 | 11 | 11 | 5 |
| 53 | 391 | F | 35-45 | 17 | 25 | |
| 54 | 397 | F | 18-20 | 31 | 32 | |
| 55 | 408 | F | 50-x | 2 | 6 | 1 |
| 56 | 435 | F | 40-50 | 28 | 31 | 3 |
| 57 | 436 | F | 25-30 | 9 | 9 | |
| 58 | 448 | F | 20-25 | 16 | 16 | |
| 59 | 453 | F | 25-30 | 21 | 21 | |
| 60 | 456 | F | 25-30 | 4 | 4 | |
| 61 | 458 | F | 25-35 | 28 | 30 | 2 |
| 62 | 469B | F | 60-x | 3 | 16 | 5 |
| 63 | 473 | F | 25-30 | 9 | 9 | |
| 64 | 482 | F? | 30-35 | 17 | 27 | |
| 65 | 484 | F? | 40-50 | 7 | 8 | |
| 66 | 490 | F | 25-40 | 2 | 12 | 4 |
| 67 | 508 | F | 30-40 | 5 | 5 | |
| 68 | 521 | F | 25-35 | 2 | 2 | |
| 69 | 524 | F? | 40-60 | 15 | 16 | |
| 70 | 526 | F | 45-50 | 25 | 28 | 2 |
| 71 | 528 | F? | 30-35 | 11 | 14 | |
| 72 | 531 | F | 25-30 | 18 | 21 | 1 |
| 73 | 532 | F | 50-x | 2 | 2 | |
| 74 | 536 | F?? | 30-35 | 1 | 1 | |
| 75 | 537 | F | 25-50 | 1 | 1 | |
| 76 | 541 | F | 20-25 | 21 | 22 | 2 |
| 77 | 544 | F | 50-60 | 6 | 7 | 1 |
| 78 | 552A | F | 25-30 | 7 | 7 | |
| 79 | 573 | F | 25-35 | 3 | 3 | |