THE NEW YORK AFRICAN BURIAL GROUND: Unearthing the African Presence in Colonial New York

Volume 1

The Skeletal Biology of the New York African Burial Ground Part 2: Burial Descriptions and Appendices

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Detail of the Maerschalk Plan (Francis Maerschalk, 1754) Artifacts from the New York African Burial Ground (Photographs by Jon Abbott): Enameled cuff link face, Burial 371, Catalog No. 1875-B.001. Bead Type 12, Burial 340, Catalog No. 01651-B.79. Oval turquoise enamel face, Burial 211, Catalog No. 1186 -B.001. Pins, Burial 12, Catalog Nos. 253-B.001, .002. Ring, copper alloy with glass insets, Burial 310, Catalog No. 1486-B.001. Bead Type 9, Burial 340, Catalog No. 01651-B.78. Bead Type 15, Burial 340, Catalog No. 01651-B.75. Button, bone, turned. Burial 171, Catalog No. 931-B.002. Cast silver pendant, Burial 254, Catalog No. 1243-B.001. Burial 335 (Photography by Dennis Seckler)

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Foreword

In 1991, during the excavation phase for the construction of the Federal Building now seen at 290 Broadway, New York City, a cemetery was uncovered containing human remains of Africans-most were enslaved, some free-who lived, worked, and died under inhumane conditions in colonial New York. This discovery, the largest bioarchaeological site of its kind, sparked heightened public awareness of an African heritage in the northern states of colonial America. An outcome of this awareness was the public's desire for amending and correcting the history of colonial New York during that period to reflect more accurately the lives and culture of these forgotten Africans and people of African descent and their contributions and roles in economic development. Several initiatives, sponsored by the General Services Administration on behalf of the American people, were launched to accomplish this goal.

The initiative to conduct historical and scientific studies of the remains and artifacts excavated at the site was entrusted to Howard University. There, Dr. Michael L. Blakey, now at the College of William and Mary, designed and implemented a comprehensive, interdisciplinary research program—the New York African Burial Ground Project—to address questions in three main areas: history, archaeology, and skeletal biology. As scientific director of the project, he assembled an international team of scholars, professionals, graduate and undergraduate students, technical staff members, and cultural specialists for various parts of the study. The New York African Burial Ground: Unearthing the African Presence in Colonial New York serves as the culminating work of this project, reporting the research findings. This multivolume series covers broadly a contextualized historical perspective, details of the archaeological discoveries, and descriptions of the skeletal biology of the unearthed human remains. Each volume documents and validates the lives of African Americans' ancestors who lived and worked in colonial New York. Included in this work are detailed descriptions of the burials excavated, complete with drawings, figures, and tables, as well as a comprehensive appendix of the artifacts found within the burials.

Through the years of this project, membership of the research team changed, but the goal of the project remained constant, that of ensuring that the story of the origins, life, and death of the enslaved Africans of colonial New York would not be absent from the annals of world history.

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Acknowledgments

It would be impossible to thank all of those in every walk of life who have helped the African Burial Ground Project over the past 12 years. All of those who stood for its preservation and dignity do, however, bear some responsibility for creating the information within this report, and we researchers are deeply indebted to them. We want to thank our supporters: especially the schoolchildren and their teachers. We also thank the churches, the civic and cultural organizations, the grass-roots political organizations, and the hundreds of visitors from around the world who visited our laboratories and offices. Other organizations that deserve recognition are: the Federal Steering Committee, the Schomburg Center; Friends of the African Burial Ground; the Committee of Descendants; Transafrica Forum; Malik Shabazz Human Rights Institute (NYC); Lift Every Voice, Inc. (Los Angeles); and many other organizations and institutions whose members have made this work possible by their moral and political support. Lastly, we would like to acknowledge New York City, State legislators, and their national counterparts, as well as our academic and professional colleagues. We cannot fail to point specifically to the enormous aid of those who stood closest to us for the longest time, including Mayor David Dinkins, State Senator (now Governor) David Paterson, Congressmen Charles Rangel, Jerome Nadler, and Gus Savage, and Senator Alfonse D'Amato. As opportunities are presented, we will continue to recognize every individual effort that has made this project possible.

Many individuals exhibited extraordinary and continuous participation in efforts to protect, elevate, and appreciate the African Burial Ground, without whom there would be neither a National Monument nor our research. Miriam Francis, Adunni Oshupa Tabasi, Dr. Muhammad Hatim, Reverend Herbert Doherty, Eloise Dicks, Mother Franklin, Queen Mother Blakely, Gena Stahlnecker (representing then, Senator David Paterson), Ayo Harrington, Christopher Moore, Renice Goode, Roger Taylor, Mary Lacy Madison, Folana Heidelberg, John Arbogast, Noel Pointer (deceased), Jackie Parker (Sen. Levin's Chief of Staff), Elombe Brath, Howard Wright and many others are deeply appreciated for building this monument. Howard Dodson and Peggy King Jorde, Chairman and Executive Director, respectively, of the Federal Advisory ("Steering") Committee provided the steadfast and wise leadership that focused community concern toward its most productive ends. Later as Project Executive for Memorialization, Ms. Jorde did the groundwork for the ultimate memorial and interpretation of the site for which we are truly grateful.

The Office of Public Education and Interpretation, the branch of the project that provided the vehicle for continuous and growing public involvement in the project by virtue of the outreach of its dedicated and bright public educators who are deeply appreciated, and through the programs designed by its anthropologist Director, Sherrill Wilson, Ph.D. John Milner Associates, who assisted us for several years in the massive early work of the project, especially in New York, we want to thank its principals Dan Roberts and Alan Steinhusen. Looking back, we recognize also the unique contributions of Dale Lanzone and Bob Leuffin of GSA during our most productive negotiations. Thanks especially to Professor Warren Barbour who walked Blakey through the inner workings of contract archaeology as a knowledgeable and trusted confidant during the early negotiations with JMA and GSA.

We want to thank our colleagues at Howard who organized the Ties That Bind ceremonies in 1994 by which the ancestral remains on which we report here were first received into our laboratories, including the organizers, Eleanor Traylor and Roberta McCleod. We thank Dr. O. Jackson Cole and Dean James Donaldson, who carried out the tireless political and bureaucratic work required to keep Howard University at the center of this project while over time its personnel and funding changed. Others in Washington include Vincent DeForest of the National Park Service (NPS), who was ever present with resources to give, and in New York the founding NPS Supervisor of the National Monument, Tara Morrison, inspires confidence in the work going forward. At the College of William and Mary's Institute for Historical Biology graduate and undergraduate staff involved at the end of this writing project included Grace Turner, Christopher Crain, Renee Ferguson, Jenna Dutcher, and many others who contributed to and benefited from the opportunity to conduct research in the service of the struggle for human rights.

We want especially to take the opportunity to thank those who assisted in the preparation of this report. Even though most are named on the preceding pages, we want to especially thank the staffs of the Howard University Cobb Laboratory, the College of William and Mary Institute for Historical Biology, and the Department of Anthropology at the University of Oklahoma. These individuals conducted research and prepared reports under extraordinarily difficult circumstances, and they did this in the spirit of humane commitment and with high standards. These students, technicians, and senior researchers and directors often sacrificed by working without funding. Although at times there was uncertainty about the security of the project's future, they were nevertheless faithful to the mission for which these volumes mark the culminating success. It is only by virtue of that commitment that we were able to succeed. Among these there were those who devoted many years of their lives working to see that the laboratories and offices functioned for researchers and the public-that the work was done and the data properly organized. These prominently include the office manager of the Cobb Laboratory, Reba Brewington, and its laboratory director, Mark Mack, who devoted at least a decade of their lives to long days of excellence on behalf of the history of the colonial Africans we report on here. All of the writing of this final report and previous drafts relied on their contributions.

The final draft report was prepared starting in January 2003, and the final report unedited version

was completed and submitted for transmission to the members of the peer review board near the end of June 2004. In the course of this work, as preparation of the final report versions, involving the merger of submissions from the various authors, was undertaken, all of the database, imaging, and text problems that had not occurred during the writing of the individual chapters and completion of the initial draft versions began to emerge. The smart and dedicated work of Christopher Null of the University of Massachusetts-Amherst and Shannon Mahoney at William and Mary corrected and refined the database and kept the information flowing to the authors. Autumn Barrett, also of the Institute at William and Mary, performed tirelessly and with an extraordinary range of skills as our editorial assistant. All of this was done in addition to their own graduate work and research contributions to the project. Thanks also to Cecelia Moore, administrative assistant, for unflinchingly hard work and dedication to the writing project. Paul Gattis at the University of Oklahoma also contributed to final database development in essential and important ways. Ryan Seltzer of Illinois State University provided key statistical advice. The project has been enormously fortunate to have received the focused attention of these special individuals.

Standing behind us were mentors and senior colleagues without whom there may have been more open fronts of professional warfare than we could have handled. George Armelagos at Emory University and Don Ortner of the Smithsonian Institution have given generously and courageously of their support to this project. As colleagues who shared our goals, Howard Dodson and Leith Mullings worked tirelessly from the very beginning to ensure that our efforts on behalf of this project received a fair airing in New York. We thank the three peer reviewers for useful criticisms of drafts of this manuscript. Finally, we thank our families and friends for giving every means of support imaginable.

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Section IV:

Burial Descriptions of the New York African Burial Ground

L. M. Rankin-Hill, J. Gruber, P. Allen, and A. Barrett

Notes on Burials

Descriptions generally include demographic, infectious disease, nutritional, and chemical sourcing information. Many additional pathologies and characteristics of these burials are described in the Skeletal Biology and Archaeology Databases of the African Burial Ground Project.

Female aged 20–25 years. Cranial and lower-limb periostitis (generalized systemic infection) is present. Enthesopathies are present on the humerus and clavicles. Significant hypertrophy of muscle insertions affects the femora. Osteoarthritis is indicated by eburnation in the shoulder and lipping of the temporomandibular joint. Healed cribra orbitalia indicative of nutritional stress and hypoplasias indicative of childhood stress are present.



Burial 2

Male aged 27–42 years. Individual exhibits evidence of cranial periostitis. Healed cribra orbitalia and cranial porotic hyperostosis indicative of nutritional stress can be observed.



Male aged 25–34.9 years. Mild osteoarthritis affecting the acetabulum can be observed. Healed cribra orbitalia and porotic hyperostosis indicative of nutritional stress are present.





Burial 4

Male aged 30–40 years. Individual exhibits evidence of cranial periostitis. Healed cribra orbitalia and porotic hyperostosis indicative of nutritional stress are present.



B4A C 186 Ax# 4A.1



C. 186 Ax# 4A.1

Burial 4.1

Male aged 15–24.9 years. Cranial periostitis can be observed. Healed cribra orbitalia and porotic hyperostosis indicative of nutritional stress are present. (See photo for Burial 4.)



Burial 5

Infant aged .50–1.0 years.



Male aged 25–30 years. Individual has significant muscle-insertion hypertrophy in the lower limbs and an enthesopathy of the left clavicle. Moderate to severe osteoarthritis affects all lower limbs joints and thoracic and lumbar vertebrae. Cervical spondylolysis is present. Periositiis of the lower limbs and possible treponemal disease are present. There is evidence of femoral/tibial bowing associated with rickets. In addition, active cribra orbitalia and diploic expansion indicative of nutritional stress can be observed. Hypoplasia indicators of childhood stress are also present. Trace elemental signature analysis (ESA) clustering is not clearly suggestive of natality. Strontium (Sr) isotope analysis suggests birth in Africa.



Burial 7

Child aged 3–4.9 years. Evidence of cranial periostitis can be observed. Healed cribra orbitalia, porotic hyperostosis, and diploic expansion indicative of nutritional stress are present. Trace ESA clustering not clearly suggestive of natality. Sr isotope analysis suggests birth in the Americas/New York.



Infant aged 0-4.1 years.



Burial 9

Male aged 35–45 years. Individual has periostitis of the lower limbs and multiple enthesopathies in the upper limbs. Mild to severe osteoarthritis affects the elbow, sacroiliac joint, knee, and lumbar synovial joints. Hypoplasia indicators of childhood stress are present. Trace ESA clustering suggests birth in Africa. Sr isotope analysis also suggests birth and migration from Africa.



Burial 10

Male aged 40–45 years. Periostitis of the lower limbs can be observed. Osteoarthritis affects many axial and appendicular joints. Osteophytosis of the cervical vertebrae and lumbar/sacral fusion is also present. Significant muscle-insertion hypertrophy is present throughout the skeleton, and there are clavicular syndesmophytes. Femoral/tibial bowing indicative of rickets and hypoplasia indictors of childhood stress are present.



Male aged 30–40 years. Individual has multiple enthesopathies with muscle-insertion hypertrophy. Vertebral osteophytosis is present. Healed cribra orbitalia indicative of nutritional stress can be observed. Hypoplasia indicators of childhood stress are also present.



Burial 12

Female aged 35–45 years. Individual has periostitis of the lower and upper limbs and crania. Femoral/tibial bowing is indicative of rickets. Significant biomechanical work stress is indicated with muscle-insertion hypertrophies and enthesopathies throughout the skeleton. Osteoarthritis affects the axial and appendicular joints. Thoracic spondylolysis is also present. Healed cribra orbitalia and porotic hyperostosis indicative of nutritional stress can be observed.



Burial 13

Subadult of indeterminate age.



Infant aged 0–3.0 years. Cranial periostitis and meningitis can be observed.



Burial 15

Child/adolescent aged 11-18 years.



Female aged 50–60 years. There is evidence of periostitis of the lower limbs. Femoral/tibial bowing associated with rickets can be observed. Significant muscle-insertion hypertrophies in the upper and lower limbs are present, with moderate to severe osteoarthritis affecting the knee and ankle joints. Cervical osteophytosis and lumbar ankylosis are observable in the vertebrae. Healed cribra orbitalia indicative of nutritional stress can be observed.



Burial 17

Child aged 4–6 years. Healed cribra orbitalia and expanded diploe are indicative of nutritional stress. Femo-ral/tibial bowing associated with rickets is also present.



Female aged 35–45 years. Individual has periostitis of the lower limbs and crania and possible treponemal disease. Significant hypertrophy of the femoral gluteal insertion and a moderate degree of osteoarthritis affect the foot and ankle.



Burial 19

Subadult of indeterminate age.



Burial 20

Male aged 45–50 years of age. Individual has periostitis of the lower limbs and significant muscle-insertion hypertrophies. A moderate degree of osteoarthritis of the lower limbs and of the hand is present.



Subadult of indeterminate age.



Burial 22

Child aged 2.5–4.5 years. Periostitis of the lower and upper limbs can be observed. Trace ESA clustering suggests birth in Africa; however, Sr isotope analysis suggests birth probably in the Americas/New York.



Burial 23

Male aged 25–35 years. Periostitis of the lower limbs and possible treponemal disease can be observed. Significant hypertrophies are present in the upper limbs and humeral enthesopathy. Lumbar osteophytosis and Schmorl's nodes are present. Hypoplasia indicators of childhood stress can be observed. Trace ESA suggests birth in Africa. Sr isotope analysis also suggests birth in Africa.



Child aged 3–6 years.



Burial 25

Female aged 20–24 years. Enthesopathies of the brachialis insertions on the ulnae are present.



Burial 26

Child/adolescent aged 8–12 years.



Infant aged 1.40–2.80 years. Diploic expansion indicative of nutritional stress can be observed. Hypoplasia and hypocalcification indicators of childhood stress are present.



Burial 28

Subadult of indeterminate age.



Burial 29

Male aged 35–45 years. Periostitis of the lower limbs and a slight degree of osteoarthritis affecting the tarsal bones are present.



Burial 30

Child aged 7–11 years. Periostitis of the lower limbs can be observed. Hypoplasia indicators of childhood stress are present.



Unsexed aged 14–16 years. Individual had active periostitis of the lower limbs at time of death. There is evidence of anterior-posterior bowing associated with rickets, as well as possible treponemal disease.



Burial 32

Male aged 50–60 years. Individual has cranial periostitis and osteomyelitis of the lower limbs. There is evidence of multiple enthesopathies in the ulnae and myositis ossificans of the ribs. There is also moderate to severe osteoarthritis affecting the axial and appendicular skeleton. Vertebral osteophytosis and thoracic Schmorl's nodes are also present. Healed cribra orbitalia and expanded diploe indicative of nutritional stress can be observed.



Burial 33

Adult of indeterminate age and sex.



Adult of indeterminate age and sex.



Burial 35

Child aged 8–10 years. Individual has healed cribra orbitalia and expanded diploe indicative of nutritional stress, and hypoplastic indicators of childhood stress are also present. Trace ESA clustering is not clearly suggestive of natality. Sr isotope analysis suggests birth probably in the Americas/New York.



Burial 36

Female of indeterminate age. This individual has periostitis of the lower limbs. Femoral/ tibial bowing indicative of rickets can be observed. Significant muscle-insertion hypertrophy of the tibiae are present.



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Male aged 45–55 years. Individual has periostitis of the lower limbs and crania. There are enthesopathies in the upper limbs, and significant muscle-insertion hypertrophy is present throughout the skeleton. Moderate to severe osteoarthritis affects the axial and appendicular joints. Osteophytosis, lumbar spondylolysis, and Schmorl's nodes are also present in the vertebrae. Hypoplastic indicators of childhood stress are present.





Burial 38

Female aged 20-25 years. Hypoplasias indicative of childhood stress are present.



Burial 39

Child aged 5–7 years. This individual has periostitis of the lower and upper limbs. Eburnation, erosion, and lipping of the first cervical vertebra and occipital condyles are present. Distortion of the joint and extension of the surface suggest posterior displacement of the cervical onto the occipital squama. Enthesopathies are present on the humeri and ulnae. Healed cribra orbitalia and porotic hyperostosis indicative of nutritional stress and hypoplastic indicators of childhood stress are present. Trace ESA clustering suggests birth in the Americas/New York. Sr isotope analysis also suggests birth in the Americas/New York.



Female aged 50–60 years. Individual has periostitis of the lower limbs and crania. Femoral/tibial bowing associated with rickets is present. Myositis ossificans on the tibiae and ribs with significant muscle-insertion hypertrophy can be observed throughout the skeleton. Moderate to severe osteoarthritis affects axial and appendicular joints. Osteophytosis is also present in the vertebrae.



Burial 41

Adult of indeterminate age and sex.



Burial 42

Infant aged 0–2.0 years. Periostitis of the lower and upper limbs is evident.



Child aged 2.5–4.5 years. Diploic expansion indicative of nutritional stress is present. Trace ESA clustering is not clearly suggestive of natality.



Burial 44

Child aged 3–9 years.



Burial 45

Child aged 2.5–4.5 years. Evidence of meningitis is observable. Femoral/tibial bowing associated with rickets and healed cribra orbitalia indicative of nutritional stress are present. Hypoplastic indicators of childhood stress are observable. Trace ESA clustering suggests birth in the Americas/New York.



Female of indeterminate age. Individual has periostitis of the lower and upper limbs. Moderate osteoarthritis affects the hip and knees.



Burial 47

Male aged 35–45 years. Periostitis of the lower limbs and crania can be observed. Multiple enthesopathies and moderate osteoarthritis are present. Trace ESA clustering is not clearly suggestive of natality, although third-molar clustering with B2 and low Pb concentration suggest early life in Africa. However, low Sr isotope values indicate birth possibly in the Caribbean.



Burial 48

Adult of indeterminate age and sex.



Female aged 40–50 years. There is evidence of periostitis of the lower limbs and crania. Significant muscle-insertion hypertrophy of the tibiae and femora are present. Mild osteoarthritis affects the upper-limb joints. Healed cribra orbitalia and porotic hyperostosis indicative of nutritional stress can be observed. Hypoplasia and hypocalcification indicators of childhood stress are present.



Burial 50

Child of indeterminate age.



Female aged 24–32 years. Individual has periostitis of the lower limbs and crania. There is evidence of biomechanical work stress, with significant muscle-insertion hypertrophy, primarily in the upper limbs, and enthesopathies of the brachialis insertions on the ulnae. Moderate osteoarthritis is present throughout the axial and appendicular joints. Vertebral osteophytosis and osteochondritis dissicans of the knee joints are also present. Diploic expansion indicative of nutritional stress and hypoplasia and hypocalcification indicators of childhood stress are present.



Burial 52

Age and sex indeterminate.



Burial 53

Infant aged .25–.75 years. Periostitis of the upper and lower limbs can be observed.



Adult of indeterminate age and sex.



Burial 55

Child aged 3–4.9 years. Individual has periostitis of the lower and upper limbs and crania. Healed cribra orbitalia and diploic expansion are indicative of nutritional stress. Hypoplasia and hypocalcification indicators of childhood stress are present. Trace ESA clustering is not clearly suggestive of natality.



Burial 56

Female aged 30–34 years. Individual has significant muscle-insertion hypertrophies and enthesopathies throughout the skeleton. Moderate osteoarthritis affects multiple axial and appendicular joints. Lumbar Schmorl's nodes are also present. Healed cribra orbitalia and porotic hyperostosis indicative of nutritional stress can be observed. Hypocalcification indicators of childhood stress are present.



Infant aged .88–2.16 years. Hypoplasia and hypocalcification indicators of childhood stress are present.



Burial 58

Child aged 3.5–5.5 years. Periostitis of the lower and upper limbs is present.



Burial 59

Infant aged 0-.25 years.



Infant aged .25–.75 years.



Burial 61

Child of indeterminate age.



Burial 62

Indeterminate age and sex.


Male aged 35–45 years. There is evidence of periostitis of the lower and upper limbs. There are enthesopathies and significant muscle-insertion hypertrophy throughout the skeleton. A mandibular tori is also present. Myositis ossificans is found on the thoracic vertebrae, ribs, and left pubis. Moderate to severe osteoarthritis affects the axial and appendicular skeleton. Osteophytosis and lumbar Schmorl's nodes are present in the vertebrae. Porotic hyperostosis and diploic expansion indicative of nutritional stress can be observed.



Burial 64

Infant aged .38–.88 years. Cranial periostitis with active cribra orbitalia, porotic hyperostosis, and diploic expansion indicative of nutritional stress can be observed.



Perinatal.



Burial 66

Infant aged 0–0.16 years.



Burial 67

Male aged 40–50 years. Individual has periostitis of the lower and upper limbs. Muscle-insertion hypertrophy is present throughout the skeleton, with enthesopathies of the brachialis insertions on the ulnae. Myositis ossificans is found on the thoracic vertebrae and ribs. Moderate to severe osteoarthritis affects axial and appendicular joints. Lumbar Schmorl's nodes are also present.



Male aged 21–25 years. A slight degree of osteoarthritis is present, with a robust femora linea aspera. Sr isotope analysis (of dentin only) suggests birth probably in Africa.



Burial 69

Male aged 25–25 years. There is evidence of periostitis of the lower limbs and possible treponemal disease. Significant muscle-insertion hypertrophies and enthesopathies are present throughout the skeleton. Mild to moderate osteoarthritis affects joints in the upper and lower limbs. Femoral/tibial bowing associated with rickets can be observed.



Burial 70

Male aged 35–45 years. There is evidence of periostitis of the lower and upper limbs, saber shins, and possible treponemal disease. There are multiple enthesopathies and significant muscle-insertion hypertrophies, primarily in the upper limbs. There is evidence of myositis ossificans in the lumbar vertebrae and ribs with lumbar Schmorl's nodes; all limb joints have at least mild osteoarthritic changes. Femoral/tibial bowing associated with rickets can be observed.



Female aged 25–34.9 years. Individual has periostitis of the lower limbs and crania. Clavicular syndesmophytes, myositis ossificans on the thoracic vertebrae, and multiple significant hypertrophies of the lower limbs are present. At least mild osteoarthritis affects most joints, with moderate to severe changes in the lower limbs. Osteophytosis and lumbar Schmorl's nodes are also present.



Burial 72

Subadult aged 1–2 years. There is evidence of meningitis, diffuse bone loss, cranial periostitis, and lowerlimb periostitis. Hypoplasia and hypocalcification indicators of childhood stress are present.



Burial 73

Female aged 20–30 years. Several muscle-insertion sites in the upper limbs exhibit significant hypertrophy. Moderate osteoarthritis affects the hip and vertebrae. Cervical osteophytes are also present. Diploic expansion indicative of nutritional stress can be observed.



 Burial 74

 Empty shaft.

 Final 75

 Perinatal.

Male, age unknown. Individual has periostitis of the lower limbs. Several enthesopathies and significant insertion hypertrophies are found throughout skeleton. Myositis ossificans of the femur and moderate to severe osteoarthritis affects several of the appendicular joints. Active, healing, and healed porotic hyperostosis indicative of nutritional stress can be observed.



Infant aged .67–1.30 years. Hypoplasia and hypocalcification indicative of childhood stress are present.



Burial 78

Age 16–19. Sex indeterminate. Cranial periostitis is present.



Burial 79

Infant aged .25-.75 years.



Subadult of indeterminate age.



Burial 81

Female of indeterminate age. Individual has femoral/tibial bowing associated with rickets. Ulnar enthesopathies with mild to moderate osteoarthritis affecting the lower limbs are present.



Burial 82

Female aged 18–25 years. Individual has cranial periostitis. Osteoarthritis affects the cervical and thoracic vertebrae; cervical osteophytosis is also present. Healed cribra orbitalia indicative of nutritional stress and hypoplastic indicators of childhood stress can be observed.



Subadult aged .00–15.00 years.



Burial 84

Female aged 17–21.0 years. Evidence of osteomyelitis is observable. Significant osteoarthritic lipping of the lumbar vertebrae is present.



Burial 85

Infant aged .25-.75 years.



Child aged 6–8 years. Individual has periostitis of the lower and upper limbs and crania. Diploic expansion is indicative of nutritional stress.



Burial 87

Child aged 4–6 years. Diploic expansion indicative of nutritional stress can be observed.



Burial 88

Age and sex indeterminate.



Female aged 50–60 years. There is evidence of enthesopathies at more than 20 muscle insertions and significant hypertrophy at many others. Mild to severe osteoarthritis affects nearly all of the joints examined. Osteophytosis is present in all three vertebral regions.



Burial 90

Female aged 35–40 years. Significant biomechanical work stress is evidenced by numerous enthesopathies and muscle-insertion hypertrophy throughout the skeleton. Mild osteoarthritis affects the shoulder, elbow, and thoracic vertebrae. Schmorl's nodes are present in the lumbar vertebrae. Expanded diploe and healed porotic hyperostosis indicative of nutritional stress and femoral/tibial bowing associated with rickets are observable. Hypoplastic indicators of childhood stress are present.



Burial 91

Infant aged .67–1.3 years of age. Periostitis of the lower and upper limbs can be observed. Diploic expansion indicative of nutritional stress and hypoplasia and hypocalcification indicators of childhood stress are present.



Indeterminate age and sex. (Photo includes Burial 92 and Burial 95.)



Burial 93

Adult of indeterminate age and sex.



Burial 94

Subadult of indeterminate age. No in situ photograph available. Combined with Burial 96; remains are not identifiable in photograph.

Burial 95

Child aged 7–12 years. Enthesopathy at the insertions surrounding the intertubercular groove of the left humerus, and the brachialis insertion of the ulnae show significant hypertrophy. Mild lipping of the zygopophyseal joints affects all vertebral regions.



Male aged 16–18 years. Mild to moderate hypertrophies of several muscle insertions are present. Periarticular resorptive foci affect the acetabula. Individual has hypoplastic indicators of childhood stress.



Male aged 40–50 years. There is evidence of periostitis of the lower and upper limbs. There are enthesopathies at 20 different locations, and significant muscle-insertion hypertrophies are present throughout the skeleton. Mild to severe osteoarthritis affects many of the axial and appendicular joints. There is carpal-bone fusion in the right wrist. In the vertebral column, thoracic and cervical Schmorl's nodes and lumbar spondylolysis are present. Healed porotic hyperostosis and diploic expansion indicative of nutritional stress can be observed. Hypoplastic indicators of childhood stress are present.







Infant aged 1.0–2.0 years.



Burial 99

Child aged 6–10.0 years.



Burial 100

Subadult of indeterminate age.



Male aged 26–35 years. Individual has cranial and lower-limb periostitis, saber shins, and possible treponemal disease. Enthesopathies of the brachialis insertions of the ulnae, myositis ossificans in the ribs, and a few muscle-insertion sites with significant hypertrophy can be observed. Mild to severe osteoarthritis affects the axial and appendicular skeleton. Schmorl's nodes and thoracic spondylolysis are also present. A slight amount of nutritional stress can be observed. Hypoplasia and hypocalcification indicators of childhood stress are present in the dentition. Trace ESA clustering is not clearly suggestive of natality. Sr isotope analysis suggests birth in the Americas/New York, while lead levels are intermediate of African and colonial American signatures.



Burial 102

Infant aged 1.33–2.67 years. Hypoplasia and hypocalcification indicators of childhood stress are present.



Subadult of indeterminate age.



Burial 104

Female aged 30–40 years. There is evidence of lower-limb periostitis, with numerous enthesopathies and significant muscle-insertion hypertrophy. Moderate to severe osteoarthritis affects many axial and appendicular joints. Osteophytosis is present on the cervical and lumbar vertebrae. Diploic expansion indicative of nutritional stress can be observed.



Burial 105

Male aged 35–45 years. Individual has periostitis of the lower and upper limbs. There is significant hypertrophy of the linea aspera and the biceps brachii insertions of the radii. Mild osteoarthritis affects several appendicular joints. Thoracic and lumbar Schmorl's nodes are also present.



Burial 105.1

Female aged 35–45 years (no photograph). Mild osteoarthritis of the hand and knee joints is present.

Female aged 25–35 years. Evidence of lower- and upper-limb periosititis can be observed. There is femoral/ tibial bowing associated with rickets. Well-developed femoral linea aspera can be observed. Trace ESA clustering is not clearly suggestive of natality. Sr isotope analysis suggests birth in Africa.



Burial 107

Female aged 35–40 years. Individual has enthesopathies or significant hypertrophy of many muscle insertions throughout the skeleton. Mild to moderate osteoarthritis affects most axial and appendicular joints. Osteophytes, Schmorl's nodes, and lumbar spondylolysis of the vertebrae are present. Diploic expansion indicative of nutritional stress can be observed. Hypoplastic indicators of childhood stress are present.





Infant aged .25-.75 years.



Burial 109

Infant aged .67–1.33 years. Hypoplasia and hypocalcification indicate childhood stress.



Burial 110

Infant aged -.17-.17 years.



Infant aged .67–1.33 years. Hypoplasias and hypocalcifications indicate childhood stress.



Burial 112

Infant aged .25-.75 years.



Burial 113

Adult of indeterminate age.



Male aged 45–50 years. Individual has upper and lower-limb periostitis. There is evidence of multiple enthesopathies and significant and muscle-insertion hypertrophies in the upper limbs. The linea aspera of the femora are well developed. Mild osteoarthritis affects several upper- and lower-limb joints, with moderate to severe changes in the elbow and wrist. Osteophytosis is present on cervical, thoracic, and lumbar vertebrae. Healed porotic hyperostosis and diploic expansion indicative of nutritional stress can be observed. Hypoplasias and hypocalcifications indicate childhood stress. Low Sr isotope values suggest birth possibly in the Caribbean.



Burial 115

Female aged 25–34.9 years. Lower limb and cranial periostitis are present. Enthesopathic attachments are present on humeri, ulnae, and clavicles. Mild osteoarthritis affects the shoulder, elbow, hand, and knee. Hypoplasias and hypocalcification indicate childhood stress. Trace ESA clustering suggests birth in Africa. Sr isotope analysis suggests birth probably in the Americas/New York.



Burial 116

Male aged 45–55 years. There is evidence of lower-limb periositits and possible treponemal disease. Several enthesopathies of the clavicles and ulnae are observable. Eburnation affects the proximal and distal articulations of the tibiae. Osteophytes are present on the lumbar vertebrae.



Perinatal. There is observable periostitis of lower and upper limbs throughout the skeleton.



Burial 118

Adult of indeterminate age.



Burial 119

Male aged 35–45 years. Occipital enthesopathy is present, and periarticular resorptive foci are present at the acetabula.



Female aged 25–34 years. There is evidence of lower-limb periostitis and of well-developed deltoid tuberosities of the humeri. Diploic expansion indicative of nutritional stress can be observed. Hypoplasias and hypocalcifications indicate childhood stress.



Burial 121

Child aged 2.5–4.5 years. Diploic expansion indicative of nutritional stress can be observed. Hypoplasia indicators of childhood stress are present.



Burial 122

Female aged 18–20.0 years. Individual has cranial and lower upper limb periostitis, several muscle insertions with significant hypertrophy throughout the skeleton, and enthesopathies of the humerus and clavicles. Mild to severe osteoarthritis affects axial and appendicular joints. There is femoral/tibial bowing associated with rickets. Healed porotic hyperostosis, cribra orbitalia, and diploic expansion indicative of nutritional stress can be observed.



Infant aged .67–1.33 years. Hypoplasia and hypocalcification indicate childhood stress.



Burial 124

Adult of indeterminate age. Lower-limb periostitis can be observed. Diploic expansion indicative of nutritional stress is present.



Burial 125

Indeterminate age and sex. Evidence of lower-limb periostitis is present. Severe osteoarthritis affects the foot and ankle.



Child aged 3.5–5.5 years. Healed porotic hyperostosis and diploic expansion indicative of nutritional stress can be observed. Hypoplasias indicative of childhood stress are present. Trace ESA clustering is not clearly suggestive of natality.



Burial 127

Infant aged .67–1.33 years. Hypoplasias indicative of childhood stress are present.



Burial 128

Subadult of indeterminate age.



Indeterminate age and sex.



Burial 130

Infant aged 1.0–2.0 years. Individual has healed cribra orbitalia indicative of nutritional stress; hypoplasia and hypocalcification indicators of childhood stress are also present.



Burial 131

Subadult, age unknown.



Male aged 25–30 years. Individual has lower-limb periostitis. The skeleton exhibits syndesmophytes at the rhomboid ligament attachment of the clavicle. Moderate osteoarthritis affects the hip.



Burial 133

Infant aged 1.0–2.0 years. Lower- and upper-limb periostitis can be observed. Hypoplasia and hypocalcification indicators of childhood stress are present.



Burial 134

Female aged 40–50 years. Individual has lower-limb periostitis and several significant hypertrophies of muscle insertions on the humerus and femur. Moderate to severe osteoarthritis affects the ankle, foot, and shoulder. There is ankylosis of the sacroiliac joints.



Male aged 30–40 years. Lower-limb periostitis is observable. There are many enthesopathies and significant muscle-insertion hypertrophies throughout the skeleton. Osteoarthritis affects axial and appendicular joints. Osteophytes and Schmorl's nodes are also present. Hypoplasias evidence childhood stress. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Burial 136

Subadult of indeterminate age.



Burial 137

Adult of indeterminate sex, aged 25–35 years.



Child aged 3–4.9 years. This individual exhibits healed porotic hyperostosis and diploic expansion. Hypoplasia and hypocalcification indicators of childhood stress are present. Trace ESA clustering suggests birth in the Americas/New York. Sr isotope analysis also suggests birth in the Americas/New York.



Burial 139

Empty shaft. (No photograph.)

Burial 140

Empty shaft. (No photograph.)

Burial 141

Empty shaft. (No photograph.)

Burial 142

Female aged 25–30 years. Present are significant hypertrophies of single insertions of the ilia, humeri, and scapulae and severe osteoarthritis of the hip and knee . Hypocalcification indicators of childhood stress are present. (Photo includes subadult Burials 144 and 149.)



Child aged 6–10 years.



Burial 144

Infant aged 0-.17 years.



Burial 145

Empty Shaft.



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Infant aged 0-.49 years.



Burial 147

Male aged 55–65 years. Periostitis is present in the lower and upper limbs, and there is possible treponemal disease. Most of the muscle insertions examined show enthesopathies or significant hypertrophy. Moderate to severe osteoarthritis affects all of the major joint complexes. Osteophytes are observable in the cervical, thoracic, and lumbar regions of the spine. Healed cribra orbitalia and diploic expansion indicative of nutritional stress can also be observed. Hypoplasias indicative of childhood stress are present.



Burial 148

Unsexed individual aged 12–15 years. There is evidence of femoral/tibial bowing associated with rickets. Cranial synostosis can also be observed.



Infant aged .50–1.0 years.



Burial 150

Female aged 20–28 years. There is evidence of cranial and lower- and upper-limb periosititis. Several muscle insertions in the upper limb have significant hypertrophy. Mild to severe osteoarthritis affects many appendicular joints and the lumbar vertebrae. Healed cribra orbitalia indicative of nutritional stress can be observed. Hypoplasia and hypocalcification indicators of childhood stress are present.



Burial 151

Male aged 35–45 years. Individual has syndesmophytes at the rhomboid attachment on the clavicle and several significant hypertrophies in the upper limb. Mild osteoarthritis affects the axial and appendicular skeleton, with moderate changes in the lumbar vertebrae and elbow. Osteophytosis occurs throughout the vertebral column, and Schmorl's nodes are present on the sacral body and inferior end plate of L5. There is evidence of dislocation at the left temporomandibular joint and osteochondritis dissicans at the knee. Healed porotic hyperostosis and diploic expansion indicative of nutritional stress can also be observed.



Age and sex indeterminate.



Burial 153

Female of indeterminate age. Hypoplasias indicative of childhood stress are present. Individual has lumbar osteophytosis.



Burial 154

Female aged 25–29 years. This individual has lower- and upper-limb periostitis and multiple enthesopathies and hypertrophies of muscle insertions, predominantly in the upper limb. Mild to moderate osteoarthritis affects the axial and appendicular skeleton. Osteophytes and Schmorl's nodes are also present. Healed porotic hyperostosis and diploic expansion indicative of nutritional stress can be observed.



Adult of indeterminate age and sex. Possible treponemal disease is observable.



Burial 156

Female of indeterminate age. This individual has lower-limb periostitis, multiple enthesopathies, and significant hypertrophies. Mild to moderate osteoarthritis affects all joint complexes examined. There is evidence of femoral/tibial bowing associated with rickets.



Burial 157

Female of indeterminate age and sex. Individual has significant hypertrophy of the gluteal muscle attachments on the femora.



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Male aged 20–30 years. Individual has lower-limb and cranial periostitis. Multiple enthesopathies and significant muscle-insertion hypertrophy are present throughout the skeleton. Mild to severe osteoarthritis affects axial and appendicular joints. Cervical osteophytes and Schmorl's nodes are present. Healed porotic hyperostosis and cribra orbitalia indicative of nutritional stress can also be observed. Hypoplasia and hypocalcification indicators of childhood stress are also present.



Burial 159

Female aged 25–34.9 years. Evidence of meningitis with cranial and lower- and upper-limb periositis is present. Multiple enthesopathies and significant muscle-insertion hypertrophies are present, primarily in the upper limbs. Mild to moderate osteoarthritis affects axial and appendicular joints. Hypoplasia and hypocal-cification indicators of childhood stress are present.



Burial 160

Child aged 3.5–5.5 years. Hypoplasia and hypocalcification indicators of childhood stress are present. Trace ESA clustering suggests birth in the Americas/New York.



Subadult of indeterminate age.



Burial 162

Male aged 35–45 years. Osteophytes of the thoracic vertebrae are present.



Burial 163

Male aged 18–24 years. Significant hypertrophy of the gluteal-muscle attachments of the femora is present.



Child/adolescent aged 8–13 years. The skeleton has significant hypertrophy of the gluteal muscle attachments of the femora and the insertions of the intertubercular grooves on the humeri.



Burial 165

Adult of indeterminate age. There is observable lower-limb periostitis. Healed porotic hyperostosis, cribra orbitalia, and diploic expansion indicative of nutritional stress are present.



Burial 166

Infant aged .50–1.0 years.


Child/adolescent aged 8.5–12.5 years. Trace ESA clustering is not clearly suggestive of natality. Sr isotope analysis suggests birth in the Americas/New York.



Burial 168

Male of indeterminate age. Individual has several enthesopathies in the upper limbs.



Burial 169

Child aged 5.5–9.5 years. Cribra orbitalia and diploic expansion indicate nutritional deficiency. Trace ESA clustering suggests birth in the Americas/New York.



Child aged 7-11.0 years.



Burial 171

Male aged 44–60 years. There is evidence of cranial and lower- and upper-limb periostitis. The individual has enthesopathies or significant hypertrophies at all muscle and ligament attachments examined. Moderate to severe osteoarthritis affects at least one articulation in all axial and appendicular joint regions. Bilateral sacroiliac fusion is present. Healed cribra orbitalia indicative of nutritional stress can be observed. Hypoplasia indicators of childhood stress are also present.



Burial 172

Female aged 25–34.9 years. Evidence of lower-limb periostitis and possible treponemal disease is present. The skeleton has significant muscle-attachment hypertrophy throughout, with enthesopathies on the ulnae and tibiae. Mild osteoarthritis affects the hand and ribs, and there are moderate changes in the knee joint. Cervical osteophytes are present.



Infant aged .25-.75 years.



Burial 174

Male aged 17–18 years. Individual has a moderate number of muscle attachments with hypertrophy or enthesopathies. Mild osteoarthritis affects the ankle, and moderate changes are present in the synovial joints of the lumbar vertebrae. Healed porotic hyperostosis and cribra orbitalia indicative of nutritional stress can be observed.



Burial 175

Male aged 24–28 years. There is evidence of lowerlimb periostitis. Individual has multiple enthesopathies of the humeri and ulnae with significant muscle-attachment hypertrophies throughout the skeleton. Mild osteoarthritis affects the knee and ankle. Significant lipping is present at the acetabula. Lumbar osteophytosis and Schmorl's nodes are found in the vertebrae. Healed porotic hyperostosis and cribra orbitalia indicative of nutritional stress can be observed.



Male aged 20–24 years. Lower- and upper-limb periostitis is present. The skeleton has significant hypertrophy of three attachments in the upper limb. Mild lipping affects the elbow, ribs, and synovial joints of the cervical vertebrae. Active, healing, and healed porotic hyperostosis and diploic expansion indicative of nutritional stress can be observed.



Burial 177

Adult aged 30-60 years. Sex indeterminate.



Burial 178

Adult male of indeterminate age. Mild lipping affects the lumbar synovial joints.



Male aged 25–30 years. There is evidence of cranial and lower-limb periostitis and possible treponemal disease. Individual has significant hypertrophy at several muscle insertions and milder hypertrophy at remaining attachments. Enthesopathies and myositis ossificans are present. There is evidence of osteophytosis of the vertebrae, with severe osteoarthritis and Schmorl's nodes observable. Active, healing, and healed porotic hyperostosis and healed cribra orbitalia indicative of nutritional stress can be observed. Hypoplasia indicators of childhood stress are present.



Burial 180

Child/adolescent aged 11–13 years. Individual has lower-limb periostitis. Mild porosity on articular surface of the humeral and femoral heads is present. There is evidence of femoral/tibial bowing associated with rickets. Trace ESA clustering is not clearly suggestive of natality. Sr isotope analysis suggests birth in the Americas/New York.



Burial 181

Male aged 20–23 years. Lower-limb periostitis and possible treponemal disease. Enthesopathies are present on the left fibula and right humerus. Moderate to severe osteoarthritis affects the sacroiliac joint, shoulder, and ankle. Thoracic Schmorl's nodes are present.



Child/adolescent aged 7.5–12.5 years.



Burial 183

Infant aged .63–1.13 years.



Burial 184

Infant aged 1.0–1.5 years.



Male aged 21–23 years. There is evidence of lower- and upper-limb periostitis. Multiple enthesopathies and significant muscle-attachment hypertrophies concentrated in the upper limb are present. Mild osteoarthritis affects the hip, knee, and elbow, with moderate changes in the hand . Hypoplasias indicative of childhood stress are present.



Burial 186

Infant aged 0-.17 years. Healed cribra orbitalia indicative of nutritional stress can be observed.



Burial 187

Infant aged 1.5–4.0 years. Hypoplasia and hypocalcification indicators of childhood stress are present.



Adult 26–32 years. Lower-limb periostitis is present.



Burial 189

Adult of indeterminate age and sex. Osteomyelitis can be observed.



Burial 190

Infant age .38–.88 years. Cribra orbitalia indicative of nutritional stress can be observed.



Male aged 25–30 years. Individual has lower-limb periostitis. Multiple enthesopathies and significant muscle-attachment hypertrophies are present throughout the skeleton. Mild osteoarthritis affects the wrist and hand with moderate changes of the ankle and foot joints. Lumbar osteophytes are present. Healed porotic hyperostosis and cribra orbitalia indicative of nutritional stress can also be observed.



Burial 192

Female aged 40–60 years. A number of enthesopathies and significant muscle-attachment hypertrophies are scattered throughout the skeleton. Severe osteoarthritis with eburnation is present in the elbow, wrist, ankle, and foot . Healed porotic hyperostosis and diploic expansion indicative of nutritional stress can be observed.



Burial 193

Male aged 30–48 years. There is evidence of lower-limb periostitis. Several enthesopathies of the upper limb and significant muscle-attachment hypertrophies throughout the skeleton are present. Moderate osteoarthritis affects the hip, elbow, and shoulder. Femoral/tibial bowing associated with rickets was observed.



Male aged 30–40 years. Individual has lower-limb periostitis. Enthesopathies of the attachments surrounding the intertubercular groove of the humeri and other attachments exhibit significant muscle-attachment hypertrophy. Lumbar osteophytes are present, and moderate osteoarthritis affects the elbow, knee, ankle, and foot. Diploic expansion indicative of nutritional stress can be observed.



Burial 195

Female aged 30–40 years. Evidence of lower-limb periostitis is present. Numerous enthesopathies and muscle-attachment hypertrophies are concentrated in the upper limbs. Mild to moderate osteoarthritis affects most joints in the axial and appendicular skeleton, with carpal-joint fusion in the wrist. Cervical and thoracic osteophytes are present. Healed porotic hyperostosis and cribra orbitalia indicate nutritional deficiency.



Burial 196

Adult aged 20-24 years. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Female aged 45–55 years. Individual has lower-limb periostitis. Numerous enthesopathies and muscleattachment hypertrophies occur throughout the skeleton. Mild to severe osteoarthritis affects most axial and appendicular joints. Cervical and thoracic osteophytes are present. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Burial 198

Subadult of indeterminate age.



Burial 199.1

Female aged 30–40 years. Lower-limb periostitis is present. Moderate numbers of enthesopathies and significant muscle-attachment hypertrophies are present throughout the skeleton. Mild to severe osteoarthritis affects most axial and appendicular joints. Cervical and thoracic osteophytes and myositis ossificans of the left femur are present. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Burial 199.2

Adult male of indeterminate age. (No photograph).

Burial 199.3

Infant aged 0-4.1 years. (No photograph).

Burial 200

Male of indeterminate age. The individual has well-developed deltoid tuberosities on the humeri. Moderate osteoarthritis affects the elbow joint with lumbar and sacral osteophytes present. Hypoplasias indicative of childhood stress are present.



Burial 201

Infant aged 1.50–3.5 years. Periostitis of the lower and upper limbs is present. Hypoplasia and hypocalcification indicators of childhood stress are present.



Female aged 12–18 years. Periostitis of the lower limbs is observable. Femoral/tibial bowing associated with rickets is present.



Burial 203

Adult aged 12–18 years.



Female of indeterminate age. Individual has a few enthesopathies and significant muscle-attachment hypertrophies on the humeri and clavicles. Mild to moderate osteoarthritis affects the ribs and shoulder joints with cervical osteophytes also present.



Burial 205

Female aged 18–20 years. Individual has several enthesopathies and significant muscle-insertion hypertrophies, primarily in the upper limb . Mild osteoarthritis affects appendicular joints. Hypoplastic indicators of childhood stress are present.



Subadult of indeterminate age.



Burial 207

Female aged 25–35 years. Periostitis of the lower limbs is present, with enthesopathies of the linea aspera and significant muscle-attachment hypertrophies on the ulnae and tibiae. Mild osteoarthritis is present which affects the knee, ankle and foot. Diploic expansion indicative of nutritional stress can be observed.



Burial 208

Infant aged .5-1.0 years.



Male aged 40–50 years. Individual has periostitis of the crania and lower and upper limbs, lower-limb osteomyelitis, saber shins, and possible treponemal disease. Numerous enthesopathies and significant muscle-insertion hypertrophies are present throughout the skeleton. Moderate to severe osteoarthritis affects most axial and appendicular joints. Also present is osteophytosis of the vertebrae, with observable Schmorl's nodes. Active, healing, and healed porotic hyperostosis with diploic expansion indicative of nutritional stress can also be observed.



Burial 210

Male aged 35–45 years. Periostitis of the crania, lower and upper limbs with enthesopathies, and many muscle attachments with significant hypertrophy can be seen throughout the skeleton. Moderate to severe osteoarthritis affects most axial and appendicular joints. Osteophytes are present, and there is endplate collapse in the lumbar vertebrae. Healed porotic hyperostosis and cribra orbitalia indicative of nutritional stress can also be observed. Hypoplasia indicators of childhood stress are present.



Burial 211

Adult of indeterminate age and sex.



Child aged 4.5-5.5 years. Individual has lower-limb periostitis.



Burial 213

Female aged 45–55 years. Individual has a moderate number of enthesopathies and muscle attachments with significant hypertrophy throughout the skeleton. Mild to moderate lipping affects the lumbar synovial joints and sacroiliac articulation. Diploic expansion indicative of nutritional stress can be observed.



Burial 214

Male aged 45–55 years. There is evidence of lower- and upper-limb periostitis. Throughout the skeleton are numerous enthesopathies and significant muscle-attachment hypertrophies. Moderate to severe osteoarthritis affects most axial and appendicular joints. Cervical, thoracic, and lumbar osteophytosis is present. There is evidence of femoral/tibial bowing associated with rickets. Healed porotic hyperostosis and cribra orbitalia with diploic expansion indicative of nutritional stress can be observed. Hypoplastic indicators of childhood stress are also present. Sr isotope analysis suggests birth in Africa.



Infant aged 0-.16 years.



Burial 216

Infant aged 0-.16 years.



Burial 217

Male aged 17–19 years. Individual has periostitis of the crania and lower limbs, with numerous enthesopathies and significant muscle-attachment hypertrophies throughout the skeleton. Mild to severe osteoarthritis affects most axial and appendicular joints. There is evidence of femoral/tibial bowing associated with rickets. Healed porotic hyperostosis and active and healing cribra orbitalia with diploic expansion indicative of nutritional stress can be observed. Hypoplastic indicators of childhood stress are present.



Infant aged .50-3.5 years.



Burial 219

Child aged 4-5 years. There is evidence of lower- and upper-limb periostitis present. Individual has lytic syndesmopathy of the rhomboid ligament attachment. There is evidence of femoral/ tibial bowing associated with rickets. Trace ESA clustering suggests birth in the Americas/New York. Sr isotope analysis also suggests birth in the Americas/New York.



Burial 220

Subadult of indeterminate age.



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Male aged 30–60 years. There is evidence of lower-limb periostitis and possible treponemal disease. A moderate number of significant muscle-insertion hypertrophies are observable throughout the skeleton. Mild osteoarthritis affects the knee and ankle with moderate changes in the joints of the hand. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Burial 222

Male of indeterminate age. Evidence of lower-limb periostitis and possible treponemal disease is present. Enthesopathies and significant muscle-attachment hypertrophies occur throughout the skeleton. Mild osteoarthritis affects the elbow with moderate changes in the wrist and ankle. There is observable femoral/ tibial bowing associated with rickets.



Burial 223

Female aged 25–35 years. There is evidence of lower-limb periostitis, possible treponemal disease, and several enthesopathies. A moderate number of significant hypertrophies is observable. Moderate to severe osteoarthritis affects most axial and appendicular joints. Osteophytes and thoracic Schmorl's nodes are present.



Infant aged .5–1.33 years. Hypoplasias and hypocalcifications indicative of childhood stress are present.



Burial 225

Infant aged .50–1.25 years. Periostitis of the crania and lower and upper limbs is present. Healed cribra orbitalia indicative of nutritional stress can also be observed.



Infant aged 0–.17 years



Burial 227

Indeterminate age and sex. Lower-limb periostitis is observable.



Burial 228

Male adult of indeterminate age. Individual has lower-limb periostitis and possible treponemal disease. Enthesopathies and several muscle attachments with significant hypertrophies are present. Mild to moderate osteoarthritis affects the appendicular joints that are present. There is evidence of femoral/tibial bowing associated with rickets.



Child aged 6.75–11.25 years. Hypoplastic indicators of childhood stress are present.



Burial 230

Female aged 55–65 years. There is evidence of lower-limb periositits with numerous enthesopathies and muscle-insertion hypertrophies. Moderate to severe osteoarthritis affects most axial and appendicular joints. Cervical and lumbar osteophytosis is present. Active and healing cribra orbitalia, healed porotic hyperostosis, and diploic expansion indicative of nutritional stress can be observed.



Burial 231

Subadult of indeterminate age. (No photograph.)

Burial 232

Subadult, age unknown.



Age and sex indeterminate.



Burial 234

Infant aged 0-4.1 years.



Burial 235

Female aged 28–42 years. Individual has several enthesopathies and muscle attachments with significant hypertrophies. Moderate to severe osteoarthritis primarily affects the lower-limb joints.



Child aged 4–5 years. Diploic expansion indicative of nutritional stress can be observed. Trace ESA clustering is not clearly suggestive of natality. Sr isotope analysis suggests birth in the Americas/New York



Burial 237

Age and sex are indeterminate.



Burial 238

Male aged 40–50 years. There is evidence of lower-limb periostitis and possible treponemal disease. Numerous enthesopathies and significant muscle-attachment hypertrophies are present. Moderate to severe osteoarthritis affects most axial and appendicular joints. Osteophytosis is present throughout the vertebral column. Healed porotic hyperostosis and diploic expansion indicative of nutritional stress can be observed. Hypoplastic indicators of childhood stress are also present.



Infant aged 1.5–3.5 years. Diploic expansion indicative of nutritional stress can be observed. Hypocalcification and hypoplasia indicators of childhood stress are present.



Burial 240

Infant aged .88-2.66 years.



Burial 241

Female aged 55–65 years. Individual has lower- and upper-limb periostitis and possible treponemal disease. Numerous enthesopathies and muscle attachments with significant hypertrophies are present. Moderate osteoarthritis affects most appendicular joints. Osteophytosis is present throughout the vertebral column. There is evidence of femoral/tibial bowing associated with rickets.



Female aged 40–50 years.



Burial 243

Male aged 40–50 years.



Burial 244 Child aged 5–9 years.



Child aged 2.5–4.5 years. Hypoplasia and hypocalcification indicators of childhood stress are present.



Burial 246

Infant aged .50-2.9 years.



Burial 247

Male aged 35–45 years. Individual has lower- and upper-limb periostitis and possible treponemal disease. Numerous enthesopathies and significant muscle-attachment hypertrophies are present. Moderate osteoarthritis affects most appendicular joints. Diploic expansion indicative of nutritional stress can be observed.



Child/adolescent aged 14–15 years.



Burial 249

Infant aged .67–1.33 years. Hypoplasia indicators of childhood stress are present.



Burial 250

Adult of indeterminate age.



Subadult aged 12-24 years.



Burial 252

Infant aged 1–2 years. Individual has lower- and upper-limb and cranial periostitis. Healed porotic hyperostosis indicative of nutritional stress can also be observed. Hypocalcification indicators of childhood stress are present.



Burial 253

Child/adolescent aged 13–15 years. There is evidence of cranial and lower- and upper-limb periostitis. Individual has syndesmophytes and enthesophytes of the clavicles. Myositis ossificans on the thoracic vertebrae is observable. Diploic expansion indicative of nutritional stress is also present.



Child aged 3.5–5.5 years. Diploic expansion indicative of nutritional stress can be observed. There is also evidence of femoral/tibial bowing associated with rickets.



Burial 255

Infant aged 0-.17 years.



Burial 256

Male aged 40–60 years.



Male aged 30-40 years.



Burial 258

Infant aged 0-.50 years.



Burial 259

Female aged 17–19 years. There is evidence of lower-limb periostitis and possible treponemal disease. Several enthesopathies and significant muscle-insertion hypertrophies are present, primarily on the upper limbs. Moderate osteoarthritis affects the elbow and knee, and mild changes are present in the hand and ankle joints.



Age and sex indeterminate. There is periostitis of the lower limbs, saber shins, and possible treponemal disease.



Burial 261

Empty shaft. (No photograph.)

Burial 262

Male aged 15–17 years. Hypoplasia indicators of childhood stress are present. Sr isotope analysis suggests birth in the Americas/New York.



Burial 263

Subadult of indeterminate age.



Adult of indeterminate age and sex.



Burial 265

Infant aged .50–1.0 years.



Burial 266

Female aged 25–35 years. Trace ESA clustering, Sr isotope analysis, and low Pb concentration suggest birth in Africa.



Adult of indeterminate age and sex.



Burial 268

Infant aged 0–.50 years. Evidence of periostitis of the lower and upper limbs.



Burial 269

Adult of indeterminate age and sex.



Male of indeterminate age. There is evidence of lower-limb periostitis, saber shins, and possible treponemal disease. Individual has enthesopathies on the tibiae and well-developed linea aspera on the femora. Moderate osteoarthritis affects the ankle and foot with mild changes in the knee. There is evidence of femoral/ tibial bowing associated with rickets. Trace ESA clustering suggests birth in Africa; however, low Sr isotope values suggest birth possibly in the Caribbean.



Burial 271

Male aged 45–55 years. There is evidence of periostitis of the lower and upper limbs, saber shins, and possible treponemal disease. Numerous enthesopathies and significant muscle-attachment hypertrophies are observable. Moderate osteoarthritis affects all appendicular joints. Diploic expansion indicative of nutritional stress can also be observed.



Burial 272

Infant aged .25-.75 years.


Age and sex indeterminate. There is evidence of periostitis of the lower limbs and possible treponemal disease.



Burial 274

Female of indeterminate age.



Burial 275

Female of indeterminate age. Femora exhibit significant muscle-attachment hypertrophies.



Female aged 20-24 years. Hypoplastic indicators of childhood stress are present.



Burial 277

Subadult of indeterminate age.



Burial 278

Male aged 45–55 years. There is evidence of periostitis of the lower limbs and possible treponemal disease. Numerous enthesopathies and significant muscle-attachment hypertrophies are present. Mild to moderate osteoarthritis affects most axial and appendicular joints. Osteophytosis, cervical Schmorl's nodes, and cervical spondylolysis are present.



Adult of indeterminate age and sex.



Burial 280

Adult female of indeterminate age.



Burial 281

Male of indeterminate age. Trace ESA clustering suggests birth in Africa; however, Sr isotope analysis suggests birth probably in the Americas/New York.



Male aged 32.5–42.5 years. Cranial and lower-limb periostitis with several significant enthesopathies and muscle-attachment hypertrophies are present. Mild to moderate osteoarthritis affects the hand, hip, knee, ankle , and cervical vertebrae. Healed cribra orbitalia indicative of nutritional stress can be observed.



Burial 283

Infant aged .33-.67 years. Hypoplasia and hypocalcification indicators of childhood stress are present.



Burial 284

Male aged 21–28 years. There is evidence of lower-limb periostitis with significant enthesopathies and muscle-attachment hypertrophies. Mild to moderate osteoarthritis affects most appendicular joints.



Female aged 20-30 years. Hypoplasia indicators of childhood stress are present.



Burial 286

Child aged 4.5–8.5 years. There is evidence of lower-limb periostitis with enthesopathies at gluteal insertions of the femora. Lipping is present at the vertebral articulations. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Male aged 18–20 years. There is evidence of lower-limb periostitis and possible treponemal disease. Several enthesopathies and significant muscle-attachment hypertrophies are present. Moderate osteoarthritis affects the elbow and lumbar vertebrae.



Burial 288

Adult of indeterminate age. There is evidence of periostitis of the lower limbs.



Burial 289

Child aged 5-9 years. Diploic expansion indicates nutritional stress.



Male aged 45–55 years. Individual has several enthesopathies and significant muscle attachment with hypertrophy. Mild to moderate osteoarthritis affects the upper-limb joints. Diploic expansion indicative of nutritional stress can be observed.



Burial 291

Infant aged 3–5 years.





Adult of indeterminate age and sex.



Burial 293

Adult male of indeterminate age. Individual has several significant muscle-attachment hypertrophies.



Burial 294

Subadult .5–1 year.



Female aged 30-50 years. Individual has well-developed linea aspera and gluteal attachments on the femora.



Burial 296

Infant aged .50-2.9 years.



Burial 297

Male aged 30–40 years. There is evidence of lower-limb periostitis with several enthesopathies and significant muscle-insertion hypertrophies. Mild to severe osteoarthritis affects many appendicular joints. Fusion of foot phalanges is present.



Infant aged .67–1.33 years.



Burial 299

Male aged 40–50 years. Individual has lower-limb periostitis and possible treponemal disease. There is evidence of enthesopathies and significant muscle-attachment hypertrophies. Mild to severe osteoarthritis affects many axial and appendicular joints; cervical osteophytosis is also present. Femoral/tibial bow-ing associated with rickets is present. Healed porotic hyperostosis, cribra orbitalia, and diploic expansion indicative of nutritional stress can be observed.



Burial 300

Subadult of indeterminate age.



Adult of indeterminate age and sex.



Burial 301.2

Subadult of indeterminate age.



Adult female of indeterminate age. Individual has significant muscle-attachment hypertrophy of the tibiae.



Burial 303

Infant aged .50-1 year.



Child aged 3–4.9 years. Healed cribra orbitalia and diploic expansion indicative of nutritional stress is observable. Trace ESA clustering and low Pb concentration suggest birth in the Americas/New York



Burial 305

Infant aged -.33–.33 years. Active cribra orbitalia and diploic expansion indicative of nutritional stress can be observed.



Burial 306

Male aged 28–44 years. Periostitis of the lower limbs and possible treponemal disease are evident. The skeleton has several significant muscle-attachment hypertrophies. Mild osteoarthritis affects several appendicular joints, with moderate changes at the hip joint. Cervical osteophytes are present. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Male aged 45–55 years. A small degree of osteoarthritis affects the elbow.



Burial 308

Subadult of indeterminate age.



Burial 309

Male aged 20–25 years. Individual has a few enthesopathies and muscle attachments with significant hypertrophies. Moderate osteoarthritis affects the elbow, hip, and lumbar vertebrae. There is evidence of femoral/tibial bowing associated with rickets.



Female aged 44–52 years. Individual has numerous enthesopathies with significant muscle-attachment hypertrophies, primarily in the upper limb. Moderate to severe osteoarthritis affects many axial and appendicular joints.



Burial 311

Infant aged .25–.75 years. Healed cribra orbitalia indicative of nutritional stress can also be observed.



Burial 312

Infant aged 0-.30 years.



Male aged 45-55 years. Hypoplasia indicators of childhood stress are present.



Burial 314

Male aged 40–50 years. Periostitis of the lower and upper limbs is present. Individual has numerous enthesopathies and muscle attachments with significant hypertrophies. Mild to moderate osteoarthritis affects the joints of the lower limb, lumbar vertebrae, wrist, and hand . Lumbar Schmorl's nodes are present. Diploic expansion indicative of nutritional stress can be observed.



Burial 315

Female aged 30–40 years. Periostitis of the lower limbs is observable. The skeleton has syndesmophytes in the clavicles and enthesopathies at the brachialis insertions of the ulnae. Mild to moderate osteoarthritis is present in the vertebral column, elbow, hip, and ankle.



Female aged 18–20 years. Individual has a few enthesopathies with significant muscle-attachment hypertrophies. Mild osteoarthritis affects the cervical and thoracic vertebrae, ribs, and hip. Moderate changes are present in the lumbar vertebrae. Cervical osteophytosis and lumbar Schmorl's nodes are present. Healed cribra orbitalia indicative of nutritional stress can also be observed.



Burial 317

Male aged 19–39 years. Lower-limb periostitis is evident. Individual has welldeveloped linea aspera and mild osteoarthritis in the hip.



Child/adolescent aged 7.5–14 years. There is evidence of periostitis on the lower limbs.



Burial 319

Adult of indeterminate age. There is evidence of periostitis of the lower limbs with a well-developed linea aspera and gluteal insertions of the femora.



Child aged 2-4 years.



Burial 321

Infant aged 1–2 years. Diploic expansion indicative of nutritional stress can be observed. Hypoplasia and hypocalcification indicators of childhood stress are present.



Burial 322

Female of indeterminate age. Individual has lower-limb periostitis and lumbar osteophytosis. There is also evidence of femoral/tibial bowing associated with rickets.



Male aged 19–30 years. This individual exhibits some periostitis of the lower limbs and cranial evidence of infection on the bone; he also has numerous enthesopathies and muscle attachments with significant hypertrophies. Mild to moderate osteoarthritis affects many axial and appendicular joints. Osteophytosis and thoracic Schmorl's nodes are present. Healed porotic hyperostosis indicative of nutritional stress can be observed. Sr isotope analysis suggests birth in the Americas/New York.



Burial 324

Female aged 25–35 years. Individual has cranial and lower- and upper-limb periosititis and possible treponemal disease. Several enthesopathies and muscle attachments with significant hypertrophies are present. Mild osteoarthritis affects the vertebral column, hand, ankle, and foot. Diploic expansion indicative of nutritional stress can also be observed.



Burial 325

Male aged 25–35 years. There is evidence of periostitis of the lower and upper limbs, saber shins, and possible treponemal disease. Robust development of long bones, with hypertrophy of a few specific muscle attachments, is present. Diploic expansion indicative of nutritional stress can be observed.



Male aged 45–55 years. Sr isotope analysis (of dentin only) is not clearly suggestive of natality.



Burial 327

Male aged 35–45 years. There is evidence of lower-limb periostitis. Several enthesopathies and muscle attachments with significant hypertrophies, primarily in the upper limbs, are observable. Mild to moderate osteoarthritis affects several axial and appendicular joints. Cervical osteophytosis is present. Diploic expansion and healed porotic hyperostosis indicative of nutritional stress can also be observed.



Burial 328

Female aged 40–50 years.



Adult male of indeterminate age. Individual has cranial and lower-limb periostitis and possible treponemal disease. Numerous enthesopathies and muscle attachments with significant hypertrophies can be observed. Mild to moderate osteoarthritis affects several axial and appendicular joints, and cervical osteophytosis is present.



Burial 330

Male aged 28-58 years.



Burial 331

Adult aged 30-35 years.



Male aged 35–40 years. Periostitis of the cranium and lower limbs and possible treponemal disease are evident. Individual has enthesopathies of the humeri and femora. Healed cribra orbitalia and porotic hyper-ostosis with diploic expansion indicative of nutritional stress can be observed.



Burial 333

Male aged 45–55 years.



Burial 334

Subadult of indeterminate age.



Female aged 25–34.9 years. There is evidence of lower-limb periostitis and possible treponemal disease. Numerous enthesopathies and muscle attachments with significant hypertrophies are present. Mild to moderate osteoarthritis affects several axial and appendicular joints. Sacral osteophytosis and lumbar Schmorl's nodes are present. Healed porotic hyperostosis indicative of nutritional stress can be observed. Hypoplasia indicators of childhood stress are present.



Burial 336

Infant aged .50-1.0 years.



Burial 337

Male aged 40–50 years. Individual has lower-limb periostitis and numerous enthesopathies and muscle attachments with significant hypertrophies. Mild to moderate osteoarthritis affects several axial and appendicular joints with cervical osteophytosis. Healed porotic hyperostosis indicative of nutritional stress can be observed. Hypoplastic indicators of childhood stress are present.



Female aged 33–65 years. Individual has lower-limb periostitis, and enthesopathies are present on the femora and patellae. Mild osteoarthritis affects the hip with moderate changes in the knee and elbow.



Burial 339

Subadult of indeterminate age.



Burial 340

Female aged 39.3–64.4 years. Evidence of lower-limb periostitis is observable. Individual has enthesopathies of the gluteal attachments on the femora and significant hypertrophy of the lateral scapulae and flexor attachments on the ulnae. Moderate osteoarthritis affects the hip with mild changes in the shoulder; osteo-phytosis affects the cervical and lumbar vertebrae. Diploic expansion indicative of nutritional stress can also be observed.



Male of indeterminate age. Periostitis of the lower and upper limbs is present. Individual has several enthesopathies of the humeri, ulnae, and femora. Mild osteoarthritis affects the knee. Bilateral sacroiliac fusion and vertebral osteophytes are present. Diploic expansion indicative of nutritional stress can be observed.



Burial 342

Female aged 25–34.9 years. Periostitis of the lower limbs and several enthesopathies and muscle attachments with significant hypertrophies are present. Mild to moderate osteoarthritis affects several axial and appendicular joints; also present are lumbar osteophytosis and Schmorl's nodes. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Burial 343

Male aged 19–23 years. There is evidence of cranial and lower- and upper-limb periostitis. Individual has enthesopathies of the occipital and syndesmophytes on the clavicle. Mild to moderate osteoarthritis affects the shoulder, hand, ankle, and cervical vertebrae. Healed cribra orbitalia indicative of nutritional stress can be observed. Hypoplastic indicators of childhood stress are present.



Male aged 25–34.9 years. Individual has many enthesopathies and muscle attachments with significant hypertrophies. Healed cribra orbitalia and porotic hyperostosis with diploic expansion indicative of nutritional stress can be observed.



Burial 345

Adult of indeterminate age and sex.



Burial 346

Female aged 50–70 years. There is evidence of periostitis of the lower and upper limbs. Several enthesopathies and muscle attachments with significant hypertrophies are present. Moderate to severe osteoarthritis affects the lower limb, and lumbar joints and cervical osteophytosis are present. Diploic expansion indicative of nutritional stress can be observed.



Infant aged .50–1.0 years. Diploic expansion indicative of nutritional stress can be observed.



Burial 348

Infant aged 1.0–2.0 years.



Burial 349

Infant aged 0-4.1 years.



Age and sex indeterminate.



Burial 351

Male aged 50–60 years. Individual has numerous enthesopathies and muscle attachments with significant hypertrophies. Mild to severe osteoarthritis affects nearly all of the axial and appendicular joints. Lumbar osteophytosis and Schmorl's nodes are present. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Burial 352

Male of indeterminate age. There is evidence of lower-limb periostitis, saber shins, and possible treponemal disease. The skeleton has several enthesopathies and muscle attachments with significant hypertrophies. Mild to severe osteoarthritis affects many appendicular joints. Diploic expansion indicative of nutritional stress can be observed.



Male aged 24–34 years. Individual has lower- and upper-limb periostitis. The skeleton has numerous enthesopathies and muscle attachments with significant hypertrophies. Mild osteoarthritis affects the shoulder, knee, elbow, and hip and osteophytosis is present throughout the vertebral column. Diploic expansion and healed porotic hyperostosis indicative of nutritional stress can also be observed. Hypoplasia indicators of childhood stress are present.



Burial 354

Male aged 35–45 years. Periostitis of the lower limbs is evident. The skeleton has numerous enthesopathies and muscle attachments with significant hypertrophies. Mild osteoarthritis affects several axial and appendicular joints. Lumbar osteophytosis and Schmorl's nodes are present. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Burial 355

Adult of indeterminate age and sex.



Subadult of indeterminate age. Infant interred with Burial 335 (on right arm).







VOLUME 1. THE SKELETAL BIOLOGY OF THE NEW YORK AFRICAN BURIAL GROUND Part 2. Burial Descriptions

Male aged 45–65 years. Individual has lower-limb periostitis. Enthesopathy is present on the tibiae. Moderate osteoarthritis affects the knee, ankle and wrist.



Burial 358

Adult of indeterminate age and sex.



Burial 359

Subadult of indeterminate age.



Subadult age unknown.



Burial 361

Male aged 33–57 years. Periostitis of the lower limbs and enthesopathies are present on the tibiae and femora. Healed porotic hyperostosis and diploic expansion indicative of nutritional stress can be observed.



Adult of indeterminate age. Diploic expansion indicative of nutritional stress is present.



Burial 363

Infant aged 1–2 years. Meningitis with cranial and lower- and upper-limb periostitis are observable. Hypoplasia and hypocalcification indicators of childhood stress are present.



Burial 364

Male aged 25–35 years. Periostitis of the lower limbs is evident. Individual has several enthesopathies and muscle attachments with significant hypertrophies. Mild osteoarthritis affects the elbow with moderate changes in the ankle.



Adult female of indeterminate age. The individual has lower-limb periostitis and mild osteoarthritis of the knee. Femoral/tibial bowing associated with rickets is present.



Burial 366

Adult of indeterminate age and sex. Periostitis of the lower limbs and possible treponemal disease are observable.



Burial 367

Female aged 25–35 years. Trace ESA clustering, Sr isotope analysis, and low Pb concentration suggest birth in Africa.



Child/adolescent aged 10.5–13.5 years. Healed cribra orbitalia indicative of nutritional stress can be observed.



Burial 369

Male aged age 40–50 years. Individual has lower-limb periostitis, saber shins, and possible treponemal disease. Numerous enthesopathies and muscle insertions with significant hypertrophies are present. Mild to severe osteoarthritis affects most axial and appendicular joints. Several carpal bones in both wrists are fused. Osteophytosis and cervical Schmorl's nodes are present. There is evidence of femoral/tibial bowing associated with rickets. Hypoplastic indicators of childhood stress are present.



Burial 370

Child aged 2–4 years. Hypoplastic indicators of childhood stress are present.


Female aged 25–35 years.







Burial 373

Female aged 45–60 years. Individual has several enthesopathies of the ulnae and femora. Moderate osteoar-thritis affects the knees with mild changes in the hip.



Infant aged 0-.25 years.



Burial 375

Female aged 16–18 years. Periostitis of the lower limbs is evident. Enthesopathies of the gluteal attachments on the femora and muscle attachments with significant hypertrophies are present. Mild to severe osteoarthritis is present throughout the skeleton.



Burial 376

Male aged 45–65 years. Individual has lower-limb periostitis and numerous enthesopathies and muscle attachments with significant hypertrophies. Mild to severe osteoarthritis affects many axial and appendicular joints. Healed cribra orbitalia and porotic hyperostosis indicative of nutritional stress can be observed.



Female aged 32.6–57.8 years. Individual has numerous enthesopathies at muscle attachments on the preserved remains.



Burial 378

Empty shaft. (No photograph.)

Burial 379

Male aged 30–40 years. Evidence of lower-limb periostitis, saber shins, and possible treponemal disease are present. The skeleton has numerous enthesopathies and muscle attachments with significant hypertrophies. Osteoarthritis affects nearly all axial and appendicular joints. There is fusion of phalanges in both hands. Osteophytosis is present throughout the vertebral column. Healed cribra orbitalia indicative of nutritional stress can be observed.



Male aged 40–60 years. Individual has lower- and upper-limb periostitis. Numerous enthesopathies and muscle attachments with significant hypertrophies can be observed. Mild to moderate osteoarthritis affects nearly all of the appendicular joints. Schmorl's nodes and osteophytosis of the sacrum are present. Healed porotic hyperostosis indicative of nutritional stress can also be observed. There is also evidence of femoral/ tibial bowing associated with rickets.





Burial 381

Empty shaft. (No photograph.)

Child aged 4–5 years. Diploic expansion indicative of nutritional stress is present.



Burial 383

Female aged 14–18 years. Individual has cranial and lower- and upper-limb periostitis. Numerous enthesopathies and muscle attachments with significant hypertrophies, particularly in the upper limbs, are present, as are lumbar Schmorl's nodes. Hypoplasia indicators of childhood stress are also present.



Burial 384

Female aged 25–45 years. Periostitis of the lower and upper limbs is present. Significant muscle attachments with hypertrophies are found on the femora and occipital. Also present is evidence of cervical osteo-phytosis. Sr isotope analysis suggests birth in the Americas/New York.



Female aged 40–60 years. Individual has periostitis of the lower limbs. Numerous enthesopathies and muscle attachments with significant hypertrophies are present. Mild to severe osteoarthritis affects nearly all axial and appendicular joints. Schmorl's nodes, spondylolysis, and osteophytosis are present. Healed porotic hyperostosis indicative of nutritional stress can also be observed. There is also evidence of femoral/tibial bowing associated with rickets.



Burial 386

Infant aged 0-.30 years.



Burial 387

Male aged 34-44 years.



Female aged 27–57 years. Lower- and upper-limb periostitis is evident. Numerous enthesopathies and significant muscle-attachment hypertrophies are present. Mild to moderate osteoarthritis affects many of the appendicular joints and the temporomandibular joint. Healed porotic hyperostosis and diploic expansion indicative of nutritional stress can be observed.



Burial 389

Female of indeterminate age. Hypoplastic indicators of childhood stress are present.



Male aged 25–35 years. There is evidence of lower- and upperlimb periostitis. Observable are femoral enthesopathies and significant muscle-attachment hypertrophies on the femora and humeri. Mild osteoarthritis affects the hip and knee.



Burial 391

Male aged 16.5–19.5 years.



Male aged 42.5–52.5 years.



Burial 393

Infant aged -0-.17 years.



Adult 16-25 years.



Burial 395

Male aged 43–53 years. Individual has periostitis of the lower limbs, numerous enthesopathies, and significant muscle-attachment hypertrophies. Mild to severe osteoarthritis affects many of the appendicular joints.



Burial 396

Subadult aged 6.5–8.5 years. Cranial and lower- and upper-limb periostitis is observable.



Female aged 30–40 years. Individual has lower-limb periostitis. Individual has enthesopathies of the tibiae and several significant muscle-attachment hypertrophies throughout the skeleton. Mild osteoarthritis affects the vertebrae and upper limbs with lumbar Schmorl's nodes.



Burial 398

Adult aged 25–35 years. Diploic expansion and healed porotic hyperostosis indicative of nutritional stress can be observed.



Burial 399

Infant aged 0-.30 years.



Male aged 25–34.9 years. The individual has several enthesopathies and significant muscle-attachment hypertrophies. Mild osteoarthritis affects the foot, ankle and shoulder. Diploic expansion indicative of nutritional stress can be observed.



Burial 401

Age and sex indeterminate.



Burial 402

Age and sex indeterminate.



Male aged 39–65 years. Individual has mild osteoarthritis, which affects occipital condyles and temporomandibular joints. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Burial 404

Female of indeterminate age. Periostitis of the lower limbs is evident.



Child aged 6–10 years. Linea aspera and gluteal and brachialis attachments are well developed. Trace ESA clustering not clearly suggestive of natality. High Pb concentration suggests birth in the Americas/New York.



Burial 406

Infant aged 0-4.1 years. Diploic expansion indicative of nutritional stress can be observed.



Burial 407

Age and sex indeterminate.



Male of indeterminate age. Femora have enthesopathies, muscle-attachment hypertrophy, and mild osteoar-thritic changes at the distal articular surface. (No photograph.)

Burial 409

Age and sex indeterminate. (No photograph.)

Burial 410

Female of indeterminate age. Periostitis of the lower limbs is evident.



Burial 411

Empty shaft. (No photograph.)

Burial 412

Perinatal infant.



Burial 413

Female aged 50–70 years. There is evidence of osteomyelitis and lower- and upper-limb periostitis. The skeleton has numerous enthesopathies and significant muscle-attachment hypertrophies. Mild to severe osteoarthritis affects many of the appendicular joints. Osteophytosis and myositis ossificans of the ribs are present. Diploic expansion indicative of nutritional stress can be observed.



Male aged 39–59 years. Individual has enthesopathies and significant muscle-attachment hypertrophies on the humeri and ulnae. Moderate to severe osteoarthritis affects the upper-limb joints, knee and vertebral joints. There is evidence of vertebral osteophytosis, and both sacroiliac joints are ankylosed.



Burial 415

Male aged 35–55 years. Individual has numerous enthesopathies and muscle attachments with significant hypertrophies. Mild to moderate osteoarthritis affects the knee and elbow. Cervical osteophytes and Schmorl's nodes are present. There is also evidence of femoral/tibial bowing associated with rickets.



Burial 416

Age and sex indeterminate.



Child/adolescent aged 9.5-14.5 years.



Burial 418

Male aged 30–55 years. Periostitis of the lower and upper limbs, saber shins, and possible treponemal disease are evident. Several enthesopathies and significant muscle-attachment hypertrophies are present. Mild to moderate osteoarthritis affects the vertebrae, ankle, foot, and hand ; osteophytosis is also present. Healed porotic hyperostosis indicative of nutritional stress can be observed.



Burial 419

Male aged 48–62 years. There is evidence of periostitis of the lower limbs. The individual has several enthesopathies and significant muscle-attachment hypertrophies. Mild to moderate osteoarthritis affects axial and appendicular joints. Osteophytosis is present throughout the vertebral column. Diploic expansion indicative of nutritional stress can also be observed. There is also evidence of femoral/tibial bowing associated with rickets.



Burial 420, 420.1, 420.2

Separate individuals are not identifiable from the photograph.

Male aged 35–45 years. Individual has numerous enthesopathies and significant muscle-attachment hypertrophies. Mild to moderate osteoarthritis affects several axial and appendicular joints. Cervical and thoracic osteophytosis is present.

Subadult of undetermined age.

Adult of indeterminate age and sex.



Burial 421

Empty shaft.





Empty shaft. (No photograph.)

Burial 424

Adult of indeterminate sex and age.



Burial 425

Remained in situ. Probable female over 30 years of age, based on field assessment.



Empty shaft.



Burial 427

Male aged 16–20 years. Evidence of lower- and upper-limb periostitis is observable. The individual has a moderate number of enthesopathies and significant muscle-attachment hypertrophies.



Burial 428

Female aged 40–70 years. Individual has several enthesopathies and significant muscle-attachment hypertrophies on the humeri. Mild to moderate osteoarthritis affects the shoulders, cervical vertebrae, and temporomandibular joints. Cervical osteophytosis is also present.



Age and sex indeterminate.



Burial 430

Empty shaft. (No photograph.)

Burial 431

Adult of indeterminate age and sex. Periostitis of the lower limbs is evident.



Burial 432

Adult of indeterminate age and sex.



Adult of indeterminate age and sex. (No photograph.)

Burial 434

Age and sex indeterminate.



Burial 435

Age and sex indeterminate.



Burial 436

Age and sex indeterminate.

Note: Hypoplasia and hypocalcification data based on sample of 99 individuals.

Appendix A

RESEARCH DESIGN SUBCOMMITTEE STATEMENT AND ABG PHYSICAL ANTHROPOLOGICAL PEER REVIEW PANEL REPORT

RESEARCH DESIGN SUBCOMMITTEE

Members: Charlene Dwinn-Vaughn, Dr. Jerome Handler, Joan Maynard, Robert McDonald, Noel Pointer

STATEMENT:

"The African Burial Ground is of unparalleled significance to America's heritage. The investigation of this site involves the excavation and study of 390 ancestral remains, primarily of Africans who died while in bondage during the eighteenth century. It is one of the most important archeological sites in this country today in that it is the earliest large skeletal population ever to be examined through careful scientific excavation. The ancestral remains that have been excavated and those remaining in the ground are also of great spiritual and inspirational significance to the African American community. (Note: throughout this document the term "African American" is used in reference to post-colonial communities of African descent. Historic communities are referred to as "African", "Irish", etc., as appropriate in reference to both first generation and eighteenth-century communities prior to the nation's establishment.

Due to the circumstances that have brought about their presence, these material remains of African ancestors present themselves during a time of social and emotional strife when inspirational uplift is most needed in the African-American community; during a time when evidence of the significance of racism in America needs desperately to be brought to bear on the minds of Euro-Americans; and during a time when there is a thirst for knowledge about African heritage that has propelled heated debates about in adequacies of American education. These African ancestral remains have presented both a challenge and an opportunity to simultaneously address these issues.

This Research Design also recognizes the necessity of ongoing consultation with religious leaders who will work with scientists and others to see to the sacred aspects of this important project. Periodic religious ceremonies are anticipated throughout the project. Ultimately, an appropriately dignified reburial should take place at a site designated by the descendant community and the city of New York. In addition, plans for a memorial and world-class museum should be realized. The wealth of information that these african ancestors provide deserves nothing less as a platform from which through science, they may speak to us about the place that they came from, the physical evidence of their struggles in this "New World," and the culture they clung to and created here. It is fervently hoped that the implementation of this Research Design will bring this important spiritual, cultural, and scientific resource into the prominence that it deserves.

Research Design SubCommittee June 14, 1993

African Burial Ground Committee Meeting May 24, 1993 Proposed Resolution.

The Subcommittee on Research Design recommends as a motion to the Steering Committee the following:

That the Steering Committee accept the Research Design submitted to GSA on April 22, 1993.

That the Steering Committee agree that this is a bona fide scholarly and scientific document which offer a professionally competent plan for the study and analysis of the skeletal remains and related archeological and historical issues.

The Steering Committee has confidence in the professional abilities of Dr. Blakely, as Director of the project will have full authority to resolve issues related to the scientific methodologies, analytical procedures, and similar issues related to the overall research design.

The resolution was accepted.

APPENDIX A: RESEARCH DESIGN SUBCOMMITTEE STATEMENT AND ABG PHYSICAL ANTHROPOLOGICAL PEER REVIEW PANEL REPORT • 161

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APPENDIX A: RESEARCH DESIGN SUBCOMMITTEE STATEMENT AND ABG PHYSICAL ANTHROPOLOGICAL PEER REVIEW PANEL REPORT • 163

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APPENDIX A: RESEARCH DESIGN SUBCOMMITTEE STATEMENT AND ABG PHYSICAL ANTHROPOLOGICAL PEER REVIEW PANEL REPORT • 165

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APPENDIX A: RESEARCH DESIGN SUBCOMMITTEE STATEMENT AND ABG PHYSICAL ANTHROPOLOGICAL PEER REVIEW PANEL REPORT • 167

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Appendix B

NEW YORK AFRICAN BURIAL GROUND PROJECT SKELETAL ANALYSIS FORMS
FILE CONTENTS:

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PRESENT	MISSING DATA		
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		Burial Form	
	- A	Provensence Sheet	
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1	55	Dental Measurement (2 for mixed)	dentition)
1	16	Dental Morphology	
1	27	Dental Pathology (3 forms)	
~	18	Age Determination	
- V-		Ser Determination	
- K-	. 20	Fathological Assessment	
-	23	Artifact Location Map	
	90	Pesture Sketches	
N.	23	Photographic Record *	
1-	24	Additional Porms (listed helow)	
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CONDUCTO

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85	MFAT Metropolitan Forensic Anthropology Team	TH. LEHMANTERLEGE
	at Lehman College Field Notes Broadway-Foley Square Black Cemetery Site '92 OCI 8 AF IN SITU SKELETAL INSPECTIONAL ANALYSIS	p: 1 of 4
ĸ	Burial #: 101 Catalogue #: 243 Block #: 154	DATE: 18 De. 199)
I	ASSESSOR/S: 12 kess, L. Esinberg 6. HESS EXCAVATOR/S: C. Gross B. Lus with	
RIGHT RIGHT RIB ARGA	CONDITION OF REMAINS: Excelled preservation, buried fully acticulated. Fully Gatandeo, HEAD DAD OF ROTTIN - BORNES COLLAPSED VERTICALLY, HANDS WOME ENTENDED LEFT FELL IN BOTWERK RT. OUTSIDGE OF HOMMES MART FINGENES SKULL STILL INFIGUENT & FRONTAL IE. DID NOT FALL TO SIDE STEDENUM PRESENT DUT FALLEN TO LEFT. RT. CLAVICLES PATELLES SLIPPED OFF TO LEFT SOME DISTUZBANCE, BUT POST MORTERS DAMAGES TO SEVERAL RIB ENDS & BUP. RU LONG. CRACK IN SACRUM HUMPAN CRANIAL FRAG. FUREDEN TO THIS INDIVID. MOST RT. TIBRA. 2 BONG BUTTOMS - ONST MIDSIMATET OFFICE DIST A FAIRLY TIGHT FIT IN COFFIN - HEAD & FEET AGAINST END SHOULDERS. RT HUMBRUS PROX. TILTED UP AGAINST COFFIN WA BUILL: Present CONDITIONS - DAMAGES TO LEFT ORBIT I I SMAUL CRACULAR CARLES (R) ON LEFT. DAMAGES TO LEFT ORBIT L PRICEAL SURFACE L PI: MISSING. P-M BUICCAL SURFACE L PI: MISSING. P-M LMI MISSING. P-M LMI MISSING. P-M LMIS NOT UISIBLE	AT WEST. FEET UP AGAINST MONG TOP OF FEMURE, PARALLEL TO FEMURES. SHED LD PIN STAIN-COR. SUTURE ANOTHER STAIN DISARTIC. ACCOSS T7 \$8 MINHOR. GAILUS OF LT. PUBBIS. ACCENT TO PROX. END OF TIL END OF RT. FEMURE. S. SOME "SHRUGGANG" AT NLL - STUTTED IN, THIS ONE. II Right Left Decid. Perm II V V V II V V V V II V V V V II V V V V V V V V V V V V V V V V
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MFAT Field Notes

By: LE /or (initials)

In Sitn Skeletal Assessments

Burial 1: /01 p. 3 of 4

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NU ASSESSORTS

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STULL APPROARS "SMALLISH" COMPARED TO POST-CRAMENTE SKELLTEN !

Insurfactor: SCIATEL HOTCH APPEARES MARROW, J SHAPOO' HO PRE-AURICULAR SULLS APPARENT

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FORMER: APPENDE ROBUST W. LG. HENDS & VOTY WIDE CONFYLINE BLENTH FEMUR LENOTHS 480 \$990 FEMANONL CIR. 98 & HEAD DVA. 50 Other: GENERALLY LG. POST-CRAMIAL SCENETON

Tentative Conclusion: MALE

THE NEW YORK AFRICAN BURIAL GROUND

MYAT Field Notes By: LE /GH (initials) In Situ Skeletal Assessments

Burial #: 10! p. 4 of 4

RACE ASSESSMENTS

SQUARE ORBUTS Skull: WIDEST POINT OF SKULL AT BACK MASAL MODURATELY WIDE BUT AREA AROUND NASION IS BROAD MODERATE TO PROMOUNCED PROGNATHISM ...

Tentative Conclusion: BUSCK

AGE ASSESSMENTS

Teeth: M3 5 FRUPTED OCCLUSEL SURPACES NOT VISIBLE

Vertebral Lipping: NO APPARENT UPPING

Other: ALL EPIPHYSES FUSED , CORONAL SUTURE LARGELY FUSEDECTO CRAMIAL TENTATUE LONCULSION: ADULT : 30-35 ?

PATHOLOGIES/ANOMALIES

- TRAUMA (?) P-M BRGAK ? RIGHT SIDE OF MANNIBLE INFERIOR P2.

- BILDTERAL PROJENCE OF OS ACROMIALE - ACTIVITY RELATED?

- BILATERIAL ENLANDEMENT OF AMERICAL MARGINS OF TIBIAE. NEW BOME APPOSITION IS WELL CONSOLIDATED WI KNOWYZLYING CONTICAL BOHE. (METABOLIC ? INFERTIOUS ?) FIBULAE LOUX CLEAN .

SPECIAL NOTES/COMMENTS: LEY CAN ATUR HOTED POSSIBLE RODENT BURDOW. MAY ACCOUNT FOR MINOR DISTURBANCES.

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THE AFRICAN BURIAL GROUND SKELETAL POPULATION

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THE AFRICAN BURIAL GROUND SKELETAL POPULATION

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AFRICAN BURIAL GROUND PROJECT BIOLOGICAL ANTHROPOLOGY LABORATORY HOWARD UNIVERSITY

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INVENTORY FORM FOR COMPLETE REMAINS

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<u> </u>						Cranial M	easurements (Pages 53-62)						
									IF	FT		RIGHT	
Maximum Length (g-op)	189 50	186.00	187.75				(13.) Nasal Height (n-ns)	53.33	53.94	53.64		i deni	
Maximum Breadth (eu-eu)	146 50	145.00	145.75				[14.] Nasal Breadth (al-al)	25.11	24.56	24.84			
Bizygomatic Breadth (zv-zv)	133.50	133.00	133.25				[15.] Orbital Breadth (al-al)	43.98	45.26	44.62	43.81	43.71	43.7
Basion-Breama (ba-b)	136.00	136.00	136.00				[16.] Orbital Height	40.13	40.08	40.11	40,16	41.70	40.9
Cranial Base Length (ha-n)	103.00	102.00	102 50				[17.] Biorbital Br. (ec-ec)	102 76	106.00	104.38			
Basion-Prosthion i (ha-pr)	110.00	105.00	108.00				[18.] Interorbital Br. (mf-mf)	23.20	22.99	23.10			
Max-Alveolar br. (ecm-ecm)	67.00	69.00	68.00				[19.] Frontal Chord (n-b)	110,86	113.00	111.93			
Max-Alveolar L (pr-alv)	64.00	63.00	63.50				(20.1 Parletal Chord (b-I)	123.27	124.00	123.64			
Blauricular Breadth	120.30	119.00	119.65				[21.] Occipital Chord (I-o)	102.62	102.00	102.31			
Upper Facial Hot. (n-pr)	70.72	69.72	70.22				(22.) Foramen Magnum (ba-o)	35.61	35,05	35.33			
Min Frontal Br. (ft-ft)	103.64	103.00	103.32				[23.] Foramen Magnum br	30.76	30,96	30.86			
Upper Facial Br. (Imt-fmt)	109.73	111.29	110.51				[24.] Mastoid Length	33.26	33.19	33.23	32.66	32.77	32.7
opper raciar bi. (min-miny	100.70	111.20	110.01				[]						
			MANDIBI	ULAR N	EASUR	EMENTS	(Pages 62-65)						
		LEFT	r		RIG	GHT			LEF	т		RIGHT	Г
Chin Height (gn-id)			32.83	31.34	32.09		[30.] Min Ramus Breadth	34.27	35.05	34.66	34.28	34,97	34.6
Body Height at Mental for	30.11	30.31	30.21	28.01	28.51	28.26	[31.] Max Ramus Breadth	42,35	42.35	42.35	0.00	0.00	0.0
Body thickness at M. For	11.98	11.70	11.84	12.15	12.43	12.29	[32.] Max Ramus Height	58.82	57.15	57.99	61.46	60.52	60.9
Bigonial Diameter (go-go)			100.90	102.00	101.45		[33] Mand. Length			90.96	90.18	90.57	
Blcondylar Br. (cdl-cdl)			119.76	121.00	120.38		[34.] Mand. Angle			125.00	124.50	124.75	
			POSTCR	ANIAL	MEASUR	REMENTS	(Pgs 62-65)						
MICLE Entoh PA		IFF	T		RIGH.	т	INNOMINATE: Epiph. P /A		LEF	T	F	RIGHT	
um Lenght:	150.00	152.00	151.00	150.00	150.00	150.00	[56.] Height:	0.00	0.00	0.00	219.00	219.90	219.4
Sanittal Diam at Midsh	14.80	15.08	14.94	14.97	14.22	14.60	[57.] Iliac Breadth:	161.00	162.00	161.50	152.80	152.80	152.8
Vertical Diam, at Midsh:	11.88	12 13	12.01	11.58	11.81	11.70	[58.] Publs Length:	0.00	0.00	0.00	76.64	75.31	75.9
	11.00						[59.] Ischium Length :	0.00	0.00	0.00	83.40	83.50	83.4
SCADIII A. Eninh D/A.		LE	T		RIGI	T	FEMUR Frink P/A		1 F	FT			
Anatomical Broadth (HCT) :	166 00	100.00	166.00	0.00	0.00	0.00	I Maximum Length:	501.00	501 50	501 25	495 00	495 50	495.2
Anatomical Length (PD) :	110.00	107.00	108.50	112.00	110.00	111 00	[61] Bicondylar Length	500.00	500.50	500.25	494.00	495.00	494.5
Anatomical Length (BR) .	110.00	107.00	45 30	112.00	10.00	41.81	[61.] Bicondylar Length	92.00	94 50	83 75	85.00	84.50	84.7
Gienold Gav. Lenght.	44.60	40.00	40.00	41.22	42.00	41.01	[52] Max Diam of Head:	40.47	40.50	PA PA	40.78	50.00	49.8
UNEDUC Esist DA		IFF	т		PIG	T	IG41 A/P Subtrach Dismater	24.46	21.00	31 10	27.36	28.50	27.9
Novimum Length:	265.00	366.00	365 50	272.00	373.00	372 50	165 I Transy Subtroch Diam:	35.73	36 27	36.00	38.02	38.50	38.2
Falaandular Broadth	305.00	70.00	68 75	572.00	575.00	68 50	ISE Societal Diam Mideh	21.53	30.07	30.80	30.34	29.00	29.6
Her Vert Diam of Head	07.00	17.00	17 32	47.00	40.00	46.95	[60.] Sagitta Diam. midah.	20 64	20.50	30.07	20.10	31.00	30.6
Max Diam at Midehaft:	47.30	97.25	23.28	22.02	22.47	23 70	[68] Circumference at Midsh:	95.50	95.50	95.50	95.00	95.50	95.3
Min. Diam. at Midshaft:	19.83	20.64	20.24	19.89	20.73	20.31	food on cannarence at massi	30.00	00.00		00.00	20.00	
					DICU	-	TIDIA, Pulsh, Dia.		1.5	ET		DIGUT	
RADIUS: Epiph. P/A:		LE	000 50		RIGH	077 60	TIBIA: Epipin. P/A:		LE	425.00		RIGHT	474 4
Maximum Lenght:	270.00	269.00	269.50	277.00	278.00	2/1.50	[69.] Condylo-Malleolar Length:	434.00	436.00	435.00	432.00	431,00	431.3
Sagittal Diam. at Midsh:	13.66	13.95	13.81	13.37	13.55	13,46	[70.] Max. Prox. Epiph. BR:	77.00	80.00	18.50	76.00	77.00	10.3
Transv. Diam. at Midsh	17.38	18.00	17.69	18.52	18.70	18,61	[71.] Max. Dist. Epiph BR:	56.00	55.00	55.50	53.50	52.47	52.5
					-		[72.] Max. Diam.Nutrient For:	40.95	41.10	41.03	42.48	42.17	42.
ULNA: Epiph. P/A:		LE	FT		RIGI	T	[73.] Transv. Diam. Nutr. For:	27.04	26,53	26.79	27.57	26.49	21.
Maximum Length	294.00	294.00	294.00	302.50	302.00	302.25	[74.] Circum, At Nutr. For:	110.00	108.00	109.00	115.00	114.00	114.3
Dorso-Volar Diameter	12.61	12.33	12.47	13.86	14.30	14.08						DIGUT	
Transverse Diameter	20.40	20.81	20.61	20.29	19.45	19.87	FIBULA: Epiph. P/A:		LE	FI		RIGHT	440
Physiological Length:	248.00	250.00	249.00	257.00	255.00	256.00	[76.] Maximum Length	0.00	0.00	0.00	419.00	420.00	419.
Hin. Circumference:	42.00	42.00	42,00	46.00	44.00	45.00	[76.] Max. Diam. at Midshaft	18.19	18,19	18.19	20.09	20.04	20.
SALKUM: No. Segments:							CALCANEUS: Epiph. P/A:		LE	FT		RIGHT	
Anterior Length	0.00	0.00	0.00				[77.] Maximum Length:	77.00	77.50	77.25	82.00	80.21	82.0
Anterior-Surface BR:	0.00	0.00	0.00				[78.] Middle Breadth:	44.73	46.18	45.46	46.99	46.32	46.
		0.00	0.00										

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		115	ANTHRO	POMETI	RIC RE	CORD							
Burlal number :	101		242 - 141 F			a server							
Corder :	KS	5/29/96											
		0120100				Crapial M	acourements (Dence ES 69)						
						Grainal W	leasurements (Pages 53-62)						
									LEF	Т		RIGH	IT
1 Maximum Length (g-op)	189.50	186	187.8				[13.] Nasal Height (n-ns)	53.33	53.94	53.64			
2 Maximum Breadth (eu-eu)	146.50	145	145.8				[14.] Nasal Breadth (al-al)	25.11	24.56	24.84			
3 Bizygomatic Breadth (zy-zy)	133.50	133	133.3				[15.] Orbital Breadth (al-al)	43.98	45.26	44.62	43,81	43.71	43.8
4 Basion-Bregma (ba-b)	136.00	136	136				[16.] Orbital Height	40.13	40.08	40.11	40.16	41.7	40.9
5 Cranial Base Length (ba-n)	103.00	102	102.5				[17.] Biorbital Br. (ec-ec)	102.76	106	104.4			
6 Basion-Prostnion L. (ba-pr)	110.00	106	108				[18.] Interorbital Br. (mf-mf)	23.2	22,99	23.1			
8 Max-Alveolar L (pr-sly)	64.00	63	63.5				[15.] Frontal Chord (h-b)	110.00	113	123.6			
9 Biauricular Breadth	120.30	119	119.7				[21.] Parietal Chord (I-n)	102.62	102	102.3			
10 Upper Facial Hot. (n-pr)	70 72	69.72	70.22				[22] Foramen Magnum (ha-o)	35.61	35.05	35.33			
11 Min Frontal Br. (ft-ft)	103.64	103	103.3				[23] Foramen Magnum hr	30.76	30.00	30.86			
12 Upper Facial Br. (fmt-fmt)	109.73	111.29	110.5				[24.] Mastold Length	33.26	33 19	33.23	32.66	32 77	32.7
in appart noise and this thirty	100.70	111.20					Les.I matche senger	00.20	55.15	00.20	02.00	02.11	warr
			MANDIB	JLAR MI	EASUF	REMENTS	(Pages 62-65)						
		LEFT			F	UGHT			LEFT			RIGH	IT
25 Chin Height (gn-ld)			32.83	31.34	32.1		[30.] Min Ramus Breadth	34.27	35.05	34.66	34.28	34.97	34.6
26 Body Height at Mental for	30.11	30.31	30.21	28.01	28.51	28.26	[31.] Max Ramus Breadth	42.35	42.35	42.35	0	0	0
27 Body thickness at M. For	11.98	11.7	11.84	12.15	12.43	12.29	[32.] Max Ramus Height	58.82	57.16	57.99	61.46	60.52	61
28 Bigonial Diameter (go-go)			100.9	102	101		[33] Mand. Length			90.96	90.18	90.6	1
29 Bicondylar Br. (cdl-cdl)			119.76	121	120		[34.] Mand. Angle			125	124.5	125	
			POSTCR	ANIAL N	IEASU	REMENT	S (Pgs 62-65)						1
AVICLE: Epiph. P/A:		LEFT			RIG	нт	INNOMINATE: Epiph. P /A		LEF	г	R	IGHT	
Maximum Lenght:	150.00	152	151	150	150	150	[56.] Height:	0	0	0	219	219.9	
36 Sagittal Diam. at Midsh:	14.80	15.08	14.94	14,97	14.22	14.595	[57.] Iliac Breadth:	161	162	161.5	152.8	152.8	1
37 Vertical Diam. at Midsh:	11.88	12.13	12.01	11.58	11.81	11.70	[58.] Pubis Length:	0	0	0	76.64	75.31	1 1
							[59.] Ischium Length :	0	0	0	83.4	83.5	8
SCAPULA: Epiph. P/A:		LEFT			RIC	SHT	FEMUR: Epiph. P/A:		LEF	т			
38 Anatomical Breadth (HGT) :	166.00	166	166	0	0	0	(60.) Maximum Length:	501	501.5	501.3	495	495.5	49
39 Anatomical Length (BR) :	110.00	107	108.5	112	110	111	[61.] Bicondylar Length	500	500,5	500.3	494	495	49
Glenoid Cav. Lenght:	44.60	46	45.3	41.22	42	41.61	[62.] Epicondylar Length:	83	84,5	83.75	85	84.5	84.8
							[63.] Max. Diam. of Head:	49.47	49.5	49.49	49.78	50	49.9
HUMERUS: Epiph. P/A:		LEFT			RIC	GHT	[64.] A/P Subtroch. Diameter:	31.19	31	31.1	27.36	28.5	27.9
40 Maximum Length:	365.00	366	365.5	372	373	372.5	[65.] Transv. Subtroch. Diam:	35.73	36.27	36	38.02	38.5	38.3
41 Epicondylar Breadth:	67.50	70	68.75	68	69	68.5	[66.] Sagittal Diam. Midsh:	31.53	30.07	30.8	30.34	29	29.7
42 Max. Vert. Diam.of Head:	47.35	47.29	47.32	47.28	46.62	46.95	[67.] Tranvs. Diam. Midsh:	29.64	30.6	30.07	30,19	31	30.6
43 Max. Diam. at Midshaft:	23.35	23.2	23.28	23.93	23.47	23.7	[68.] Circumference at Midsh:	95.5	95.5	95.5	95	95.5	95.3
44 Min. Diam. at Midshaft:	19.83	20.64	20.24	19.89	20.73	20.31							
RADIUS: Epiph. P/A:		LEF	т		RIG	нт	TIBIA: Epiph. P/A:		LEF	т	F	UGHT	
45 Maximum Lenght:	270.00	269	269.5	277	278	277.5	[69.] Condylo-Malleolar Length:	434	436	435	432	431	432
46 Sagittal Diam. at Midsh:	13.66	13.95	13.81	13.37	13.55	13.46	[70.] Max. Prox. Epiph. BR:	77	80	78.5	76	77	76.5
47 Transv. Diam. at Midsh	17.38	18	17.69	18.52	18,7	18.61	[71.] Max. Dist. Epiph BR:	56	55	55.5	53.5	52.47	53
							[72.] Max. Diam.Nutrient For:	40.96	41.1	41.03	42.48	42.17	42.3
ULNA: Epiph. P/A:		LEF	т		RIC	SHT	[73.] Transv. Diam. Nutr. For:	27.04	26.53	26.79	27.57	26.49	27
48 Maximum Length	294.00	294	294	302.5	302	302.25	[74.] Circum. At Nutr. For:	110	108	109	115	114	115
49 Dorso-Volar Diameter	12.61	12.33	12.47	13.86	14.3	14.08							
50 Transverse Diameter	20.40	20.81	20.61	20.29	19.45	19.87	FIBULA: Epiph. P/A:		LEF	Г	F	UGHT	0.0
51 Physiological Length:	248.00	250	249	257	255	256	[75.] Maximum Length	0	0	0	419	(3)	212
'in. Circumference:	42.00	42	42	46	44	45	[76.] Max. Diam. at Midshaft	18,19	18,19	18.19	20.09	20.04	20.1
SACRUM: No. Segments:							CALCANEUS: Epiph. P/A:		LEF	т	F	RIGHT	
53 Anterior Length	0.00	0	0				[77.] Maximum Length:	77	77.5	77.25	82	80.21	82
54 Anterior-Surface BR:	0.00	0	0				[78.] Middle Breadth:	44.73	46,18	45.46	46,99	46.32	46.7
55 Max. Breadth (S-1)	0.00	0	0										

ANTHROPOMETRIC RECORD

112 01	ORDER: Knya Shurao			DATE: Month 21 11 110		
	CRA	NIAL M	EASUREME	NTS (Pages 53-62)		
					Le	ft Righ
1. M	AXIMUM LENGTH (g-op):	1891	5	13. NASAL HEIGHT (n-ns):	5	3.33
-2. M	AXIMUM BREADTH (EU-EU):	176	S	14. NASAL SKEAUTH (al-al):	25	5.11
3, 0	ACTON-BRECHA (ha-h).	155	3	15. ORDITAL DREADIN (MT-ec	1: 43	98 43.
5 0	BANTAL BASE LENGTH (ba-n):	100	0	17 BIORBITAL BP (acres):	90	13 40.
6. B	ASION-PROSTHION L. (ba-pr)	: 103.	0	18. INTERORBITAL BR (mf-m	f).	1.76
7. M	AXALVEOLAR BR. (ecm-ecm)	: 47.	0	19. FRONTAL CHORD (n-b):	11/	120
8. M	AXALVEOLAR L. (pr-a.v):	64,0	5	20. PARIETAL CHORD (b-1):	13	3127
9. B	BIAURICULAR BREADTH:	120,	30	21. OCCIPITAL CHORD (1-o):	10	2.67
10. U	JPPER FACIAL HGT. (n-pr):	7017:	2	22. FORAMEN MAGNUM L. (ba-	0): 35	intol
1. 1	IN. FRONTAL BR. (ft-ft):	103	64	23. FORAMEN MAGNUM BR:	3	0.76
12.0	JPPER FACIAL BR. (IMT-TMT):	109	43	24. MASTOID LENGTH:	33.1	6 321
	MAND	IBULAR	MEASURE	MENTS (Pages 62-65)		
		Le	ft Righ	t	Left R	ight
25	. CHIN HEIGHT (gn-id):		32183	30. MIN. RAMUS BREADTH:	3-1.27 3	4.28
25	BODY HEIGHT AT MENTAL FO	K: 30	1 28.0	31. MAX. RAMUS BREADTH:		- Inc
20	BODT THICKNESS AL M. FOR	11.9	12 ILL	J JZ. MAX. KAMUS HEIGHT:	58182	61.46
29	BICONDYLAP BR (cdl-cdl)	· 10	916	34 MAND ANGLE.	40,46	
	to brookbreak bat (car car)	• ~11	1.40	Set Parts Ander	125	
	POSTC	RANIAL	MEASURE	MENTS (Pages 65-79)		
CLA	VICLE: Epiph. P/A:	Left	Right	INNOMINATE: Epiph. P/A:	Left	Right
35.	MAXIMUM LENGTH:	150,0	150.0	56. HE1GHT:	-	219,0
36.	SAGITTAL DIAM. at MIDSH:	14,80	H.97	57. ILIAC BREADTH:	Heleo	+
37.	VERTICAL DIAM. at MIDSH:	11188	11,58	58: PUBIS LENGTH:	-	Flaby
	DILLAS FRIEL DIAS	1.64	01-14	59. ISCHIUM LENGTH:	-	93,40
30	ANATOMICAL BREADTH (UCT) -	Lert	Right	EFHID. Foinh D/A.	Laft	Diaht
39	ANATOMICAL LENGTH (BR) -	10.0	1120	50 MAXIMUM LENGTH:	colo	Kight o
	GLENOID CAV. LENGTH :	44.60	41.22	61. BICONDYLAR LENGTH:	SELA	442.0
HUM	ERUS: Epiph. P/A:	Left	Right	62. EPICONDYLAR BREADTH:	81.0	0.28
- 40.	MAXIMUM LENGTH:	365.0	212.0	63. MAX. DIAM. of HEAD:	4917	49.28
41.	EPICONDYLAR BREADTH:	67.5	6810	64. A/P SUBTROCH. DIAMETER:	31.19	27136
42,	MAX. VERT. DIAM. of HEAD:	41.35	47.28	65. TRANSV. SUBTROCH. DIAM:	35, 73	38,02
43.	MAX. DIAM. at MIDSHAFT:	23:35	23.93	66. SAGITTAL DIAM. MIDSH:	~31.53	13013L
44.	MIN. DIAM. at MIDSHAFT:	19.23	19.89	67. TRANVS. DIAM. MIDSH:	29,69	30119
DAD	THE Frich D/A.	Laft	Diaht	68. CIRCUMPERENCE AT MIUSH:	25.5	95,0
45	MAXIMUM LENGTH:	2300	211.	TIBIA: Foinh P/A:	Left	Right
46.	SAGITTAL DIAM, at MIDSH:	12:66	12.32	69. CONDYLO-MALLEOLAR LENGTH	: will a	432.0
47.	TRANSV. DIAM. at MIDSH:	13.3.9	18.52	70. MAX. PROX. EPIPH. BR:	77.0	Han
		1 Icza	-LAL ~	71. MAX. DIST. EPIPH. BR:	56.0	53,5
ULN	A: Epiph. P/A:	Left	Right	72. MAX. DIAM. NUTRIENT FOR:	40,96	72148
¥48.	MAXIMUM LENGTH:	2941,0	302.5	73. TRANSV. DIAM. NUTR. FOR:	27.04	27.57
49.	DORSO-VOLAR DIAMETER:	12.61	13.76	74. CIRCUM. AT NUTR. FOR:	110.0	112.0
50.	TRANSVERSE DIAMETER:	20,40	20,29	CIDINA, Colot DIA.	1.55	Dicht
51.	PHTSIOLOGICAL LENGTH:	2-18,0	25419	75 MAYTHUM LENCTH.	Lert	Hight -
52.	MIN. CIKCOMPERENCE:	4310	160	76. MAX DIAM at MIDSHAFT .	-	20.09
SAC	RUM: No. Segments:	-		ter mar eren, de moshert.	_	20101
1 53.	ANTERIOR LENGTH:	-	-	CALCANEUS: Epiph. P/A:	Left	Right
54	ANTERIOR-SURFACE BR:	-	-	77. MAXIMUM LENGTH:	77.5	82,0
24.				10 HIADIC DOCARTU/	641.22	545

* 40 R. Humanisis utsisty know the test. Both and in very soul condition * 45/45 - R. Radsust P. claim and utsisting lander them course parts

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ANTHROPOMETRIC RECOMD

		DATE: 9113/94	
WIAL H	EASUREHE	NTS (Pages 53-62)	
100	A C C C C C C C C C C C C C C C C C C C	<pre>13. NASAL HEIGHT (n-ns): 14. NASAL BREADTH (a1-al): 15. ORBITAL BREADTH (a1-al): 16. ORBITAL BREADTH (af-ec): 17. BIORBITAL BR. (ac-ec): 18. INTERDRBITAL BR. (af-mf) 19. FRONTAL CHORD (n-b): 20. PARIETAL CHORD (b-1): 21. OCCIPITAL CHORD (b-1): 22. FORAMEN MAGNUM BR: 23. FORAMEN MAGNUM BR: 24. NASTOID LINGTH:</pre>	LWYL Right 54.50 2
BULAR	MEASURE	MENTS (Pages 62-65)	
Le 影应加	16 High - 34,34 - 31,34 - 12,54 - 12,5	30, HIN, RAMUS BREADTH: ≤ 31, MAX, RAMUS BREADTH: ≤ 32, MAX, RAMUS BREADTH: ∞ 33, MAX, RAMUS BREADTH: ∞ 33, MAND, LENGTH: © 34, MAND, ANGLE: ±	ft Right
RANIAL	MEASURE	HENTS (Pages 65-79)	
Left Gat Left Gat	Right TLN1 Right	INNOMINATE: Epiph. P/A: 56. HEIGHT: 57. ILIAC BHEADTH: 58. PUBIS LENGTH: 59. ISCHIUM LENGTH: FEMUR: Epiph. P/A:	Left Right
Left 49.00	Right	60. MAXIMUM LENGTH: 61. BICONDYLAR LENGTH: 62. EPICONDYLAR BREADTH: 63. MAX. DIAM. of NEAD: 64. A/P SUBTROCH. DIAMETER: 65. TRANSV. SURTROCH. DIAMETER: 66. SAGITTAL DIAM. MIDSH: 67. TRANVS. OLAN. MIDSH: 68. CIRCUMFERENCE AT MIDSH:	
2 Ann	Right	TIBIA: Epiph. P/A: 69. CONOVLO-HALLEOLAR LENGTH: 70. HAX. PROX. EPIPH. BR: 71. HAX. DIST. FORM. BD:	Left Right
Left	Right 302.0	72. MAX. DIAM. MUTRIENT FOR: 73. TRANSV. DIAM. NUTR. FOR: 74. CIRCUM. AT NUTR. FOR:	
25011	255,0,0	FIBULA: Epiph, P/A: 75. MAXINUM LENGTH: 76. MAX. DIAM. at MIDSHAFT:	Left Right
-		CALCANEUS: Eninh B/A-	left Right
	WIAL P 2015	WIAL HEASUREHE	DATE: IIIDITY WIAL HEASUREHENTS (Pages 53-62) 366 13. NASAL HEIGHT (n-ns): 14. NASAL DREADTH (mf-ec): 15. ORBITAL BREADTH (mf-ec): 16. ORBITAL BR. (mf-ec): 17. BIORBITAL BR. (mf-ec): 18. INTERDRBITAL BR. (mf-ec): 19. FRONTAL CHORD (b-1): 11. OCCIPITAL CHORD (b-1): 12. OCCIPITAL CHORD (b-1): 13. FORAMEN MAGNUM BR: 14. HASTOTO LINGTH: 15. AMAR ALMON BREADTH: 16. HIGHT 16. HIGHT 17. HIAC BREADTH: 18. HAR, ALMON BREADTH: 18. HARD, ANGLE: 1

20 101 BURIAL Not RECORDER : DATE : **IMMATURE MEASUREMENTS** RIGHT LEFT 5. Lesser wing of aphanoid 0.00 0.00 0.00 a. Length 0,00 0.00 0.66 b, Width 2. Greater wing of sphenoid 0.00 0.00 0.00 0.00 a. Longth 0.00 0.00 0.00 0.00 0.00 0.00 6,00 0.00 b. Width **J.** Body of sphenoid 0.00 0.00 a. Length 0.00 0.00 0.00 0.00 b. Width 4. Petrous-mastoid of temporal 0.00 0.00 0,00 0,00 0.00 a. Length 0.00 0,00 0.06 0.00 0,00 0.00 8.66 b. Width f. Basilar occipital 0.00 0.00 0.00 a. Longth E. Width 00.00 0.00 0,00 Zygomatic 0,00 00,0 0.00 0,00 8.66 0,00 ength Width 0.00 0.00 0.00 0.00 0.00 0.00 82 7. Moxilla 0.00 0.00 0.00 0.00 0.00 0.00 a. Langth b. Height 0,00 0.00 0,00 0,00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 g. Width 0.00 0.00 d. Oblique length 0,08 0:00 0,00 0,00 8. Mandible 0.00 0.00 0.00 0,00 09.0 0,00 a. Length 0.00 0.00 b. Width 0.00 0.00 0.00 0.00 0.00 0,00 0,60 c, Full length 00.0 0,00 0,00 9, Clavicie 0.00 0.00 0.08 0,00 0,00 D DE a. Length 0.00 0.00 0.00 b. Diameter 0.00 0.00 0.00 10. Scopula 0.00 0.00 00.0 0,00 0.00 0.00 a. Length b. Width 0.00 0.00 0.00 0.00 0.00 0.00 c. Length of spine 0.00 0.00 0.00 0.00 0.00 0.00 11. ilium a. Length 0.00 D0.0 0,00 0.00 0.00 0.00 00,00 Width 0,80 0.00 0,00 0.00 0,00 z. lachium 0.00 0.00 0.00 D.DD 0.00 02.0 a. Longth

0.00

0.00

0.00

0.00

0.00

0.00

b. Witth

IMMATURE MEASUREMENTS

		LEFT			RIGH	C
Sec						
13. Publis	1.00	3.66	and the second sec	1.00	1.11	1.000
a, Leigth	9.00	0.00	8,00	0.00	0.00	0.00
14. Humenus						
a. Length	0.00	0.00	0.00	0.00	0.00	0.00
b. Width	6.00	0.00	0,00	06,0	13,00	0.00
c. Diamator	0.00	0.00	0,00	n.00	0.00	0.00
15, Ulme						
a. Length	0.00	0.00	0.00	0.00	0.03	0.00
b. Diameter	0.00	0,00	0,00	0.00	8,60	0,00
16. Rudius						
a. Length	9,00	0.00	0.00	0.00	12.00	0.00
b. Diamonine	0.00	0.00	0,00	0.00	0.00	0,00
17. Featur						
Longth	0.00	80.6	0,00	0.00	13.00	0.00
Width	0.00	0.00	0.00	0.00	0.00	0.00
e. Diamieter	0,00	0.00	0,00	0.00	6,60	0.00
HR. Tibla						
a. Length	-0.06	0.00	6,00	0.00	0.00	0.00
b. Discolar	0.00	0.90	0.00	0.00	00.9	0.00
19. Fibula						
a. Length	0.00	0.00	0,00	0.00	0,00	0.00
b. Diameter	0.002	0.00	0,00	0.00	0.00	0.00



Site N Featur Burial/	ame/N e/Buria Skeleto	umber_ I Number n Number	NYAB or B- ber <u>Cat</u>	G 101 # 8431	 		Obse Date	rver	1. pl 9/7/9	ack 4	_
TOOT	н	MEAS	SUREM	ENTS	TOC	тн		MEA	SUREN	ENTS	
LEFT	MAX.	MD	BL	СН	RIGHT	MAX.		MD	BL	СН	
9 1 10 2 11 × 12 1 13 2 14 1 15 2 16 3	C P M M M	(18) (18) (18) (18) (18) (18) (18) (18)	762 624 (18) (18) (18) (18) (18) (18) (18) (18)	11.27 (18) (18) (18) (18) (18) (18) (18) (18)	1 2 3 4 5 7 8	W ³ W ² P ² P ¹ C ^x 2 1		(18) 11.70 (18) 7.79 7.79 7.81 8.11 6.76	(18) 12.26 (18) 10.21 1.26 10.21 2.46 6.95 7.53	(18) 2.34 (48) 2.69 8.97 4.04 9.94 9.94 1.50	
LEFT	MAND.	MD	BL	СН	RIGHT	MAND.		MD	BL	СН	
17 3 18 2 19 1 20 2	M M P	(15) (18) (18) 7.27	(15) (18) (18) (18) 9.69	(15) (18) (18) <u>8.25</u>	25 26 27 28	11 12 Cx P1		5.78 593 7.65 7.75	6.69 6.61 5.32 9.12	9.35 9.86 11.20 2.95	
21 1 22 x	P C	7.83 7.72	9.40	<u>8.9</u> 6 <u>11.2</u> -1	29 30	P2 M1		(<u>18</u>) (<u>15</u>)	(<u>18</u>) (<u>15</u>)	(18) (15)	
23 2 ¹ 24 1	I	6.54 5.52	<u>6.7</u> 4 6.07	<u>9.73</u> 9.05	31 32	M ₂ M ₃		(15) (18)	(15) (18)	(15) (18)	

DENTAL MEASUREMENT FORM

* = calies damage prevents observation. (18) = - = tooth is absent (15)

Sile Name: NYABG Burial #: B-101

843 Catalog #:____

Observer: M. Mack Date: 1/5/96

ť, 11.3 * = caries damage prevents (18) observation WINGING 111 10110 111 SHOVELING - = tooth is absent (15) 10 10 10 1.0 CURVATURE OF LABIAL SURFACE 101010 10 DOUBLE SHOVELING 11 = root in alvedur, prevents observation (21) 10 10 INTERRUPTION GROOVE 10 1 D 10 1: 0 TUBERCULUM DENTAL ALE 1018 010 CANTINE MESTAL RIDGE 1018 010 100 0,0 CAN. DIST. ACCESSORY RIDGE PMIS IPMIS PMV PMª / PM MES. & DIST. ACCESS. CUSPS *PM18 *PM18 PM10 PM10 TRI-CUSPED PREMOLAR PMIS PMIO DISTOSAGITTAL RIDGE M1 18 M3,5 M1 18 M 3 *M15 1M15 METACONE 18 18 14 15 MI5 MI 18 M3.5 M18 HYPOCONE 14-18: M-15 M15 M18 MO M18 METACONULE "M / 1M15 1M15 M118 M1/ Mª / CARABELLI'S TRAIT MO MIS PARASTYLE M O M 15 1M 15 1PM 18 1PM 18 ENAMEL EXTENSIONS PMIO PMIO MIS MO MO PM21 1PM21 PMQI PMQI PREMOLAR ROOT NIMBER 15 M 15 M 15 M 121 MIZI MIZI UPPER MOLAR ROOT NUMBER al / 1a / PEO-SHAPED INCISOR MO Mº O PEG-SHAPED MOLAR PM18 PM18 PM10 PM00 ODONTOME PM O PM O PM, O PM, 18 NONE CONGENITAL ABSENCE PM 9, PMO PM, O PM, 18 LOWER PM CUSP VARIATION M 18 M, 15 ANTERIOR FOVEA M 18 M 18 M 18 M, 15 M, 15 M, 18 GROVE PATTERN M 18 M 18 M 18 M, 15 M, 15 M, 18 CUS NUMBER M18 M15 DEFLECTING WRINKLE M 18 M, 15 DISTAL TRIGONID CREST M 18 M 18 M18 M, 15 M, 15 M, 18 PROTOSTYLID M 18 , M 18 , M 18 M, 15 M, 15 M, 18 CUSP5 M18 M18 M18 M, 15 M, 15 M, 18 CUSPÓ M18 ,M18 ,M18 M, 15 M, 15 M, 18 CUSP7 c 1 [c, 1 CANINE ROOT PM21 PM21 'OME'S ROOT M 18 , M 18 M, 15 M, 15 LOWER ROOT # M 18 M, 18 TORSOMOLAR ANGLE

DENTAL MORPHOLOGY

UN426 Dental 1	Wear Score
Specimen # <u>8-101</u> Cot# 843 Observer Scores of I ² 1 - PM ² 2 described in Smith H	& Date M. Mack 1/9/95 3. Holly AJPA 63:39-56(1984)
Maxilla LI I RI	Mandible .
2 LI	1 Z
RI 2	2 RI 2 2
LC 8 I RC 2	LC 1 RC 1 2 RC 2
LPM LPM RPM	LPM 1 RPM 1 2 1 2 1
2 LPM 2 RPM Z	LPM Z RPM 70 2 Quadrants
- = tooth is absent	L 4 1 2 3 D
Molar score described in Scott E.C. AJP	A 51:213-218(1979)
Quad. 1 2 3 4 Total Score 1 LM 1 $ =$ $-$ RM I = I = I = I RM $I = I = I = I$	Quad. 1 2 3 4 Total Score $IM_{1} / 0 / 0 / 0 = 40$ $RM_{1} =$
2 LM 2 RM 2222 =	
$ \begin{array}{c} 3 \\ LM \\ 3 \\ RM \end{array} (7) (2) (7) = \frac{1}{2} \\ RM \\ 8 (3) (0) (8) = \frac{29}{2} \end{array} $	$ IM _{3} \ (0 \ (0 \ (0 \ (0 \ = 40))) = 40 \\ RM _{3} \ (0 \ (0 \ (0 \ (0 \ = 40))) = 40) $

Coming For X' 15 Enamel Defect Measurement

Specimen # 3 1010 PH3 Diserver & Date of alast 1/4/40

Māxilla	a - satimus samage price to delateral observer
Turch CH (Thet) inc /Cor (1911)/Age	/ Tooth CH /Def /Inc /Cor /Bil /Age / Type
1-1 // <u>177 ha or a 197 4</u> 0.96 1 <u>10 1 10 10 10 10 10 10 10 10 10 10 10 10</u>	
R C ¹ <u>1104/20</u> <u>R B</u> <u>115</u> <u>M</u> <u>-</u>	
К.РН ¹ 8597 <u>нс</u> 645 9397 <u>ж. </u>	
RFM ² 2007 - 1 100 - 110	Long 125 - Lus
H [*] LMERN-X	
жм ² <u>сля на ти боо к</u>	
1. M <u>RUL HE IN 155 Y</u>	- ^N ₃ - = = = = = = =
· · EEEE	5 mm 233328

New York African Burial Dental Pathology Notes NY486 Specimen#<u>B-101</u> Cod # 843 Observer and Date_ M. Mack 1/10/96 Carces: (1:61) (2:21-mesial, 15)(3:61)(4:21-mesial/oeclusal)(8+9:22 (Imerial, I divide !- located at sites of enound hypoplaria atts-sec (11:61) (12:61) (13:61) (16:13) (17=61)(18:61)(19:61) (20:21-Missial) (28:21-mesial)(29:61)(32:61))(12:1)(15:2) (17: possible 2)(18: possible 1)(19: possible 1)(11:1) Abscessing: (3:2 - sel ekoto for all Severe algeolas recession Proots for all present dentition-see photo D Enamel Hypoplasia present on (8:3) (9:3) (20:1)(21:1)(27:1)(27:1)(28:1) Enamel Hypocalcification: present on (1:6,4) (2:6,4) (4:6,4(2)) (5:6,4(2)) (1:6,4) 0 (7:6,4)(8:6,4)(9:6,4)(16:6,4)(20:6,4)(21:6,4)(22:6,4)(23:6,4)(26:6,4)(27:6,4)(28:6.4) Possible chipping of distal / occlusal edges of LI'S RI response to to @ that location sechoto FROM (RM3, RM2 RM, RPM2, RPM Marked seriostitis along alucolas margent and (LC'LPM'LPM'LM', LM2, LM3) - see shoto

	595					Obse Date	erver: 4/1	ADa) 7/96	Page NS .	1 of 5
	NEW YORK	AFRI AGE D	CAN BU ETERMI	RIAL NATIO	GROUN N FOI	ND PR	OJECT			
1) Cranial (Suture Clos	ure								
A. Ectocrania	1 0=0pen 1=}	tinimal	Closure	2=S1	gnific	ant Cl	losure	3=Сол	nplete Oblig	eration
Site	-		Score			site				Score
 Midlambdoid Lambda(V) Obelion(V) Ant. Sagitt Bregma(V) 	1(V) tal(V)		0000		6) M: 7) Pf 8) SI 9) In 10) St	idcor terio pheno nf. S up. S	onal(n(V/L front pheno pheno	V/L-A -A) al(L- tempo tempo	A) Dral(L-A) Dral(L-A)	1 255 1255 2 17
Age Estimate: Comments:	Vault <u>34</u>	1 718 1	Latera	1-Ant	cerio	e <u>sli</u>	9±12,	J	- 44	
B. Endocrania:	1 1=Open 2.	-Partial	Closur	e 3=	Complet	te Clos	sure	N4		
Site			Score			Site				Score
 Sagittal Lambdoid(L) Lambdoid(R) 	}				4) Co 5) Co	orona orona	l(L) l(R)			=
Age Estimate_	Cor	nments								
2A. Dental Dev	relopment (Moorees, I	Fanning, 4	Hunt 1	63a, 196	3b)		N.A		
- 11	Stage	Code			Stage	3	Code		Sta	age
Code	Dian Perm	6)	Crown	Comp	lete		11)	Root	Length :	
Code 1) Initial (2) Coalescer 3) Cusp Out 4) Crown 1/2 5) Crown 3/4	ice of Cusp line Comp. Comp. Comp.	8) 9) 10)	Init. Root Root	al Ro Clei Lengi Lengi	t For the $1/4$	orm. rm. 4	12) 13) 14)	Root Apex Apic	Length C 1/2 Close cal Close	8/4 complete sed re Comp
Code 1) Initial (2) Coalescer 3) Cusp Out 4) Crown 1/2 5) Crown 3/4 Tooth rm ² Score	cusp form nce of Cusp line Comp. 2 Comp. 1 Comp. rm ¹ rc ¹	8) 9) 10) ri ²	Init. Root Root ri ¹	al Ro Clei Lengi Lengi li ¹	th 1/4 th 1/4 li ²	lc ¹	12) 13) 14) lm ¹	Root Apex Apic lm ²	Length C 1/2 Close al Closu	3/4 complete sed re Comp
Code 1) Initial (2) Coalescer 3) Cusp Out 4) Crown 1/2 5) Crown 3/4 Tooth rm ² Score Tooth rm ₂ Score	rm ¹ rc ¹ rm ₁ rc ₁	8) 9) 10) ri ² ri ₂	ri ¹ ri ₁	al Ro Clei Lengi Lengi 1i ¹ 1i ₁	bot For th $1/4$ th $1/2$ $1i^2$ $1i_2$	lc ¹	12) 13) 14) 1m ¹ 1m ₁	Root Apex Apic lm ² lm ₂	Length C (1/2 Close cal Close	3/4 complete sed re Comp
Code 1) Initial (2) Coalescer 3) Cusp Out 4) Crown 1/2 5) Crown 3/4 Tooth rm ² Score Tooth rm ₂ Score Tooth RM ³ Score	rml rcl rml rcl	<pre>>>>7) 8) 9) 10) ri² ri₂ RPM²</pre>	ri ¹ ri ¹ ri ₁ Root	al Ro Clei Lengi Lengi li ¹ li ₁ RC ¹	bot For th 1/4 th 1/2 112 112 RI2	lc ¹ lc ₁ RI ¹	12) 13) 14) 1m ¹ 1m ₁ LI ¹	Root Apex Apic Im ² Im ₂ LC ¹	Length C 1/2 Closu cal Closu	3/4 complete sed re Comp

Burial #:	NYABG 101		Observe Date:	er: <u>ADans</u> 4/171	96
cuculog Fr	NEW YORK	AFRICAN BURIA AGE DETERMINAT	L GROUND PROJE ION FORM	CT	
Tooth RM ₃ R Score	M ₂ RM ₁	RPM ₂ RPM ₁ RC	$C_1 RI_2 RI_1 LI$	LC1 LPM	1
Tooth LPM ₂ L Score	M ₁ LM ₂	LM ₃			
Summary Age: Comments:	_				
Summary Age: +2 Comments: The	eethe	are gener	ally in goo	od shape	e, but
The molar crop Manu in The 2C. Dental Devel Summary Age: Comments: 3. Epiphyseal Un Epiphysis	ion 0 - 1 Stage	Jnobservable 1 =	No Union 2 = Par Age (Both)	the pots but cause completed tial 3 = comp	ie nofre di di lete Estimate

Page 3 of ! NYABG Observer: ADaus Site Name: Burial #: Date: to 4117196 Catalog #: NEW YORK AFRICAN BURIAL GROUND PROJECT AGE DETERMINATION FORM Med. Epic. Hum. (10.0 - 14.0)(12.0 - 14.0) 14.6 - 15.8 Prox. Radius 18.0 - 19.0 Dist. Radius Prox. Ulna (13.1 - 15.0)(14.0 - 15.0)Dist. Ulna 18.0 - 19.0 Femur Head (13.4 - 16.4)(14.0 - 16.4) Gr. Trochanter 17.0 - 18.0 Ls. Trochanter 17.0 - 18.0 Dist. Femur (14.0 - 17.0)(16.0 - 17.0)(14.0 - 18.0)(13.0 - 18.0)(15.0 - 18.0)(14.9 - 18.0)Prox. Tibia Dist. Tibia (14.0 - 18.0)(16.0 - 18.0)Prox. Fibula 3. Epiphyseal Union, Continued + 25 528 Consensus epiphyseal union: Allobservable ends are comments: except the media CLAUDICU Seen tilla partialli 4. Sternal Rib Change: phase: 4 age: 26-32 [29years = 3years] comments: The set is Ushaped no calloping THIC/C pretty shill 5. Pubic Symphysis A. Suchy-Brooks: phase: 11-/ age: 18.716.5 Comments: Some pulburg MARIE -[32,1±2,5] age: 30-B. Revised Todd: phase: T eff Comments: Vertral Kan con Dart not age: 30-39 6. Auricular Surface: phase: [3252] Comments: Branularity and trausverse organization and small Prominent stride ameteril 0 RUCYOPTY. [3215 years ± 25 years] Composite Age: Rars his Thirtie Comments: wa a assesse 20 an

Site Name: Burial #: Catalog #:		O) Da	bserver:		Page	
	NEW YORK AFRICAN BU AGE DETERMI	RIAL GROUND NATION FORM	PROJECT			
					_	
Seriated Age Ind	icators					
Seriated Age Ind 1) Dental Attr	icators ition(See Dental We	ar Form)				
Seriated Age Ind 1) Dental Attr Score: Ag	icators ition(See Dental We e: Seriated Ag	ar Form) e:				
Seriated Age Ind 1) Dental Attr Score: Ag Comments:	icators ition(See Dental We e: Seriated Ag	ar Form) e:				
Seriated Age Ind 1) Dental Attr Score: Ag Comments:	icators ition(See Dental We e: Seriated Ag	ar Form) e:				
Seriated Age Ind 1) Dental Attr Score: Ag Comments: 2) Osteoarthri	icators ition(See Dental We e: Seriated Ag tic Change	ar Form) e:				
Seriated Age Ind 1) Dental Attr Score: Ag Comments: Ag 2) Osteoarthri 0 = No Lipping 1 =	icators ition(See Dental We e: Seriated Ag tic Change Minimal 2 = Moderate	ar Form) e: 3 = Significa	nt 4 = Ma	ximum		
Seriated Age Ind 1) Dental Attr Score: Ag Comments: Ag 2) Osteoarthri 0 = No Lipping 1 = C1 C2 C3 C Q L 4	icators ition(See Dental We e:Seriated Ag tic Change Minimal 2 = Moderate 4 C5 C6 C7 2 Q	ar Form) e: 3 = Significa T1 T2 T3 Q L C	nt 4 = Ma T4 T Q Q 1	xinum 25 T6	T7	T8
Seriated Age Ind 1) Dental Attr Score: Ag Comments: 2) Osteoarthri 0 = No Lipping 1 = C1 C2 C3 C O Q \bot S T9 T10 T11 O O	icators ition(See Dental We e:Seriated Ag tic Change Minimal 2 = Moderate 4 C5 C6 C7 2 \perp Q Q T12 L1 L2 L3 Q Q Q	ar Form) e: 3 = Significa T1 T2 T3 Q C L4 L5 Q Q	ant $4 = Ma$ T4 T O_{1} O_{2}	ximum 75 T6 0 0	T7	T8 O

Site Name: Burial #: Catalog #:	Observer: Date:	Page 5	5 of 5
NEW YORK AFRICAN AGE DETER	BURIAL GROUND PROJECT MINATION FORM		
3) Osteonal Remodeling			
Seriated age Comments:			
 Multifactorial Age 			
Seriated age Comments:			

SEX DETERMINATION

BURI. CAT# I)	AL # DATE Cranial	4/17	196			
CAT#	Cranial					
I)	Cranial					
I)	Cranial					
I)	Cranial			SCORE		
I)	Cranial					
		F			0	М
	1. supraorbital ridge & glabella	1	2	3	4	5
	2. zygomatic arch	l	2	3	4	5
	*3. mastoid process	1	2	З	4	5
	a. mastoid length	1	2	3	4	5
	L R					~
	4. occipital region	1	2	3	4	5
	5. gonial region	1	2	3	4	5
	6. eve orbit margin	1	2	3	4	5
	7. mental eminence	1	2	3	Ð	5
	8. temporal line	1	2	3	4	5
	9. palate length	1	2	3	4	5
	10 overall robusticity	1	2	3	4	5
11)	 postcranial measurements transport 11. humerus from orgunal measure a. vertical diam. humeral head L 44.79 R 46.62 b. transverse diam. humeral head L R c. biepicondylar width 	interior 1 interior 1 ad 1	2 2 2	3 3 3	4 (4) 4	555
	L = 70 R 69 d. articular width	1	2	3	4	5
	L R	1	2	3	4	5
	12. sternal length	1	2	3	4	5
	manubrium mesostern	um	tota	al =		-
	13. clavicle (length)					~
	L 152 R 150	1	2	3	4	(5)
	14. scapula					
	a. glenoid cavity length					-
	L 46 R 42	1	2	3	4	(5)
	15. femur					1.000
	a. max. diam. femoral head					-
	L 49.5 R 50	1	2	3	4	(5)
	b. femoral midshaft circumf.					1.1.5
	L 95.5 R 95.5	1	2	3	4	5
	c. linea aspera	1	2	3	A	5
	16 tibia	1	2	3	4	(5)
	circumf @ nutrient foramen					0
	L 102 P 1/4	1	2	3	4	(5
+	17 overall robusticity	1	2	3	4	6

NYABG B.101 Cat 843

SEX DETERMINATION

III) Pelvis

		F.				M
*18.	os pubis	1	2	З	4	5
	a. ventral arc		N	ONE		
	b. subpubic concavity		N,	ARRI	on	
	c. medial ridge	-	F	LAT	•	
19.	pre-auricular sulcus	1	2	3	4	(5)
*20.	greater sciatic notch	1	2	3	4	5
	a.angle L (5° R 60°)
*21.	pubic angle	1	2	3	4	5
23.	auricular surface	1	2	3	D	5
26.	sacrum	1	2	3	4	5
27.	superior inlet	1	2	3	4	5

Total Sex Score + number of indicators = $\frac{24.5}{108 \div 24}$

Male Summary Sex valual gives Comments: This ruch evenu indica 15 The craniu seina male 10 UNA supra or bital and lar nidae a 10 ea P ne ma a lar 90 high al m æ Ve ana al ic robu eton 10 0
BURIAL # NYA22_ burn, 101 Cot. 293 AGE ASSESSMENT: madeumadate_sonte-termed 200 SEX ASSESSMENT: madeumadate_sonte-termed 200 SEX ASSESSMENT: madeumadate_sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND DENTITION PRESENT: admost complete stateful of the sonte-termed 200 SONES AND COMMENTS: admost complete stateful of the sonte-termed 200 SONES AND COMMENTS: admost complete stateful of the sonte-termed 200 SONES AND COMMENTS: admost complete stateful of the sonte-termed 200 SONES AND COMMENTS: admost complete stateful of the sonte-termed 200 SONES AND COMMENTS: admost complete stateful of the sonte-termed 200 SONES AND COMMENTS: admost complete stateful of the sonte-termed 200 SONES AND COMMENTS: admost complete stateful of the sonte-termed 200 SONES AND COMMENTS: admost complete stateful of the sonte-termed 200 SONES AND COMMENTS: admost complete stateful of the sonte-termed 200 SONE AND COMMENTS: admost complete stateful of the sonte-termed 200 SONE AND COMMENTS: admost complete stateful of the sonte-termed 200 SONE AND COMMENTS: admost complete stateful of the sonte-termed 200 SONE AND		Unc Nee
AGE ASSESSMENT: MALE ASSESSMENT: MALE MALE MALE MALE AND	BURIAL # NYARG Bur 101 Cat 845	CONDITION OF PRESERVATION:
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PERSONAL NOTES FORM (M.C. HILL) 10/4/94 UNCH

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National Brand 45-605 Eye Bese® NYABG, Burial #101, Cat. # 843 45-305 2- Pack Made in USA Prepared By CACH Photospaphic Record Appreved By Bur. 101 Cat. 843 Plotos Bur. 101 Cat. 843 Scapular: night i left together. Radii ; anterior, posterior, medial, lateral anterior, posterior, Tatoral close - up of proximal articular crose-up of glenoid formal close-up of each acromion close - up of distal acticular . surpres process showing or acromide ulnae: 4 anterior posterior medial, lateral Right like: superior & inferior 5 close - up of proximal articular -6 heads & articular facili sternal end oscification of #1 3 # 7 7 close - up of distal articulari 8 Seft dites superior ! inferior 0 articular facts of hade 10 10 11 11 H 12 Bur. 101 Cat. 843 12 843 Pathology Bur. 101 Cat. fibrelae: medial i lateral of fost 13 close up of proximal ender 14 lesions on tarsale 15 15 and metatarsale (medical of tateral) 16 16 17 18 numeri : anterior posterior medial , lateral 19 10 Vatellae superior (close-up of proximal 20 20 anterior, posterior, mediale 21 21 lateral 22 inferior (close - up of distal -22 23 23 articular surfaces) 24 anterior posterior " 24 25 LITT I I I I I I I I I I I 20 Photos & Bur. 101 Cat. 8+3 Bur. 101 Cat. 843 26 27 27 left Hand: dorsal & palmars V femora: 28 28 anterior) porterior, medial 29 29 Right Hand : doreal & palmain : lateral 30 superior (close - up of femoral) 30 31 Sternum: all elements together inferior (close . up of distal) obligate articular surface 31 anterior/ventral -32 32 34 Claincles: fogether) 35 superior inferior 36 onteriors, poeterior 34 anterior, posterior, medial, lateral 35 Vsuperior Close - up of proximal 36 articular surface) comparison of medial ends 37 inferior (close - up of distal 38 articular surface) 38 39 39 40 40

National Brend 45-605 Eyu-Ease NYABG Burial 101 45-305 2 · Pack Made In USA , Cat# 843 Prepared Sy Cuch Photographic Approved By Record for Friday Photos taken Jothology Gur. 101 Cat. 843 B. 101 mandible Left toot: Close-up of metatarsal occlusal / superiors : overwein 2 Close - up a of dentition -3 Slift buccal hight buccal tarsals 5 1 st. prot. phaland, prot. , showing osteochondrytic get Enterior Ilabial 6 Slingual /posterior 7 8 Right Fort: 9 9 10 10 up of erosive lesions on 11 11 tolus and navicular) 11 12 12 Bur. 101, Cat. 843 · close up of erosive lesions on 13 Cranial Photos superior surface of calcaneus 14 Klose - up : right lateral 15 15 of accusory frontal 16 16 17 Close-up of orbital masal 18 area showing perforation of ainusce and supra-orbital inflammation -19 19 20 20 21 21 , anterior view 22 · left oblique view 23 Close-up of left supra -orbital forament notch -24 24 TITIT MILLING MILLING 25 25 B. bl Sun. 101, Cat. 843 26 26 27 27 Cranium: Viloce-up of nuchal - Left. Homer us - very robust Thoracic Vertiliane: - Note: Fractures in the shaft of Tz 172 Schwores - cortex (possibly due to #20) Cranicem: 28 28 29 29 30 30 31 31 32 Sacrum: 33 34 34 Jaccessory sacro-iliac Jaceta (bilateral) 35 15 36 Semara: V Close - up of porterior 37 38 38 close up of ant. prof. 39 39 40 40

BURIAL# [10] CA	TALOG# 843 P-95/08/2	
BEGINNING DATE/_	_/ ENDING DATE// P-96/264/2	
STANDARD PHOTO	GRAPHIC ASSESSMENTS P-96-266/2	
SKELETAL ELEMENTS	VIEW/SURFACES/INDICATOR(S) 🗸 = PHOTOGRAPHED	
POSTCRANIAL ELEMENTS:		
femora	anterior, posterior, medial, lateral	
	proximal close-up's: an <u>terior</u> , medial, posterior distal close-up's: anterior, posterior, distal/oblique	1
tibiae	anterior, posterior, medial, lateral	
	close-up of prox. articular surfaces	17
	close-up of dist. articular surfaces	V
fibulae	medial; lateral	1
	close-up of prox. articular surfaces	V
	close-up of dist. articular surfaces	-
Humeri	anterior, posterior, medial, lateral	~
	prox. close-up's: anterior, medial, posterior	2
	dist. close-up's: anterior, posterior, dist./oblique	1
Radii	anterior; posterior; medial; lateral	-
	close-up of distal articular surface and proxadisuitive	V
Ulnae	anterior; posterior; medial; lateral	~
	close-up of proximal half: anterior;medial;lateral	-
	close-up of distal articular surface	1
Patellae	anterior; posterior (medial & lateral, if pathological)	1.
Clavicles	superior; inferior , and , part,	1
	close-up of medial inferior surface	1

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TINTER /	/ ENDING DATE / /	
NDARD PHOTO	JGRAPHIC ASSESSMENTS	
LETAL ELEMENTS	VIEW/SURFACES/INDICATOR(S) / = PHOTOGRAPHED	
Scapulae	anterior; posterior, lat. close-up of glenoid cavities, close-pot of a normale	11
Innominates	anterior; posterior close-up of iliac crests	Tr
	close-up of auricular platform surfaces close-up of acetabula	F
	close-up of pubic symphyses	Tr
Hands	dorsal; volar (palmar)	11
Feer	dorsal; volar (plantar)	V P.
Tali & Calcanei	close-up of articular surfaces .	7
Sternum	ventral (anterior); dorsal (posterior)	~
Ribs	Left: superior; inferior	1
Cervical Vertebrae	In Line: superior; inferior Stacked Together: putorior:pegatorior: L. Later 1 P. Later 1	
noracic Vertebrae	In Line: superior; inferior	1V
.umbar Vertebrae	In Line: superior; inferior	11
Sacrum	anterior; posterior; left lateraloright lateral (togethen) close up of opportunity articular at form	1
ècente -	general inventory: anterior	
iyu ÷ †	general inventory: anterior	

NEW YORK AFRI	CAN BURIAL GROUND PROJECT PHOTOGRAPHIC RECORD	
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SKELETAL ELEMENTS	VIEW/SURFACES/INDICATOR(S) / = PHOTOGRAPHED	
w/ mandible	In Frankfurt Plane: anterior; L. lateral; R. lateral	V
Cranium	superior; inferior; posterior; endoeranial view	12
Maxillae	left lateral; anterior; right lateral; occlusal	V
Mand ible	left lateral; anterior; right lateral; occlusal	~
Dental Close-Up's	maxillae and mandible in occlusion: left lateral; anterior; right lateral	V

NEW YORK AFRICAN BURIAL GROUND PROJECT PHOTOGRAPHIC RECORD

P-96-114

BURIAL# 101 CATALOG# 843

BEGINNING DATE 5/10/94 ENDING DATE 5/10/96

KELETAL ELEMENTS	VIEW/SURFACES/INDICATOR(S) / = PHOTOGRAPHED	
Marillary + Mandibular Dentition	ANTERIOR, R. Latoral, L lateral, occlusal-general inventory Max	KMA
Maxillary Dustition	Close-up- Auterior R. Locleral L. Lateral Occlusal All-Tooth - Pathologies	KMH
Mandibulas Devotition	Clase-up- Anteriore, R. Latesof, L. Latesal, orchusal All Keeth - Peethologies	routh
Central Max Incisions LI'RI'	Close-up- Anterior, Occlusal -> Exam. Hypocaleification Exam Hypopl, Pitting, Chipping	Kent
LPMZ	Close-up Occlusal - three lingual cusps	KMIH
		7

NYASA Barrad 101 Cat # 845 Historligh Stample New York African Burial Ground Project Howard University Skeletal Sampling Document Identification: Rurial # 101 Zlement <u>Crn</u> Sample <u>O multice</u> Quality: Preservation status (0) withd Soil type Charles Age Landy to the Demography: Sex anals Commenta: Date sampled: 818195 Destination: Unit & Oklahora Sectioning Radiography Initials: Measurement

New York African Burial Ground Project
New Jork Arrivand University
abalatal Complete Descret
Skeletal Sampling Document
1 Dil
Identification: Burial # 101_ Element L. K. D Sample mid shaft
CAT # 843
Quality: Preservation status Stage () Soil type ((ay (.')
(cond)
(good)
Demography: Sex MALE ARE MADINE ANUT (PARTIANIS 30.)
Demography. Sex MIRD Age MIRIDE (Cong - Mid 303)
Terrer merente Marinum length - Disendular length -
Femur measurements: Maximum length Bicondylar length
Comments:
*
Data complete of 110/95
Date sampled: <u>x</u> / <u>10</u> / <u>43</u>
Destination: Univ. of OKlahoma
- 0
Purpose:
Initials: Measurement Radiography Sectioning KAMH
Interarb, neaburement Radiography beectoning

Appendix C

PRESERVATION STATUS CODES FOR NEW YORK AFRICAN BURIAL GROUND

APPENDIX C

PRESERVATION CODES

S. S. Mahoney and C. Null

In order to get an idea for overall preservation of each entire skeleton, the Inventory database was modified to create a preservation database.

The Inventory database provides a completeness assessment for each element, or portion of the element, of the individual's skeleton. The completeness is based primarily on the "Chicago Standards" guidelines:

1 = >75% present 2 = 25% to 75% present 3 = <25% present 8 = Partially observable (25% to 75%) 9 = Complete but unobservable Blank = missing element

These values in the Inventory database were recoded to create the following preservation value labels:

- 1 = good
- 2 = fair
- 3 = poor
- 4 = missing

In order to modify the inventory database to make it useful as a preservation database in SPSS, the completeness value had to be modified to a preservation value. Codes 1, 2, and 3 did not change. Code 8 (partially observable) was recoded to 2 (fair condition), Code 9 (complete but unobservable) was recoded to 3 (poor condition), and blank entries were modified to Code 4 (Missing)

The preservation database was split into two databases: one for cranial preservation and another one for postcranial preservation. Each database had a new variable attached for the mean of all the preservation codes for every bone in that section. The mean formula calculated the average of all the element codes for each burial, resulting in one number. The cranial and post-cranial preservation means were then placed together for comparative purposes (see the attached table).

There are two issues that must be taken into consideration with this database.

Some individuals (e.g. Burial 101), had consistent preservation throughout the skeleton, and the final preservation code should be a very good representation of overall condition. Other burials, however, had been modified by nineteenth- and twentieth-century ditches, subsequent burials, plumbing, and other trenching which cut burials in half or removed a good portion of the remains. These individuals (e.g., Burial Nos. 428, 120, or 200) might have good preservation in the upper torso (1 to 2) but the missing remains from the lower half of the body would place the final preservation mean closer to 4 (missing). The final mean for the post cranial preservation codes will tend to be weighted heavily toward the long bones. The clavicles each have one preservation code linked to them. The long bones, however, were assessed for the proximal and distal ephiphyses as well as the proximal, medial and distal third of the diaphysis. This results in five preservation codes for each long bone versus one preservation code for another element (i.e., the clavicle), resulting in a mean that is more indicative of long-bone preservation. For the cranial elements, the ear bones (malleus, incus, and stapes), which are rarely recovered, each have a code for both sides, resulting in a set of six missing codes for most of the cranial material.

Taking these qualifications into consideration, the preservation codes provide an efficient and useful method of assessing the condition of the remains.

Appendix C: Preservation Codes for NYABG Burials

Codes: 1.00-1.99 = Good 2.00-2.99 = Fair 3.00-3.99 = Poor 4 = Missing

Burial #	Crania	Post-Crania	Burial #	Crania	Post-Crania] [Burial #	Crania	Post-Crania
1.0	2.62	2.79	48.0	4.00	4.00		100.0	4.00	4.00
2.0	3.00	4.00	49.0	2.05	2.66		101.0	1.84	1.23
3.0	2.89	3.99	50.0	4.00	4.00		102.0	4.00	4.00
4.0	2.89	4.00	51.0	2.35	1.29		103.0	4.00	3.01
4.1	2.62	4.00	52.0	4.00	4.00		104.0	3.41	2.35
5.0	3.70	4.00	53.0	3.84	3.40		105.0	3.81	2.81
6.0	1.97	1.26	54.0	4.00	3.55		105.1	3.95	3.89
7.0	1.92	1.96	55.0	2.76	2.10		106.0	3.54	3.47
8.0	4.00	4.00	56.0	1.70	1.54		107.0	2.19	1.48
9.0	2.19	2.23	57.0	4.00	4.00		108.0	3.11	3.02
10.0	1.95	2.37	58.0	2.32	2.12		109.0	3.97	4.00
11.0	2.73	2.52	59.0	3.70	3.77		110.0	3.95	4.00
12.0	1.73	1.59	60.0	3.65	3.88		111.0	3.89	3.93
13.0	4.00	4.00	63.0	2.46	1.63		112.0	3.92	3.97
14.0	2.38	3.53	64.0	3.73	3.79		113.0	3.97	3.98
15.0	4.00	3.84	65.0	3.92	4.00		114.0	3.05	2.46
16.0	3.08	3.09	66.0	4.00	4.00		115.0	2.46	2.77
17.0	2.73	3.38	67.0	4.00	1.68		116.0	3.16	2.39
18.0	2.78	3.43	68.0	2.68	2.89		117.0	3.86	3.80
19.0	4.00	4.00	69.0	4.00	2.95		118.0	4.00	4.00
20.0	4.00	3.20	70.0	4.00	2.68		119.0	2.81	3.15
21.0	4.00	4.00	71.0	2.59	1.19		120.0	2.57	3.70
22.0	2.70	2.49	72.0	2.84	3.49		121.0	3.41	3.97
23.0	2.27	2.49	75.0	2.41	3.07		122.0	2.19	1.19
24.0	2.54	5.45 1.94	75.0	2.11	3.99		123.0	2.70	4.00
25.0	2.37	1.84	70.0	2.11	2.27		124.0	5.70	4.00
20.0	2.42	3.07	77.0	2.95	4.00		125.0	4.00	3.74
27.0	3.45	3.90	70.0	2.05	4.00		120.0	3.05	3.48
20.0	4.00	3.56	80.0	4.00	4.00		127.0	3.95	3.9/
30.0	2 38	3.54	81.0	4.00	3.44		120.0	3.04	3.13
31.0	2.30	3.26	82.0	2 27	3.63		131.0	4 00	4 00
32.0	2.57	1.70	83.0	3 97	4 00		132.0	3 70	2.67
33.0	3.97	3.93	84.0	3.03	3.57		133.0	3.41	3.08
34.0	4.00	4.00	85.0	3.97	4.00		134.0	2.68	2.34
35.0	2.30	2.40	86.0	2.19	2.19		135.0	2.32	1.33
36.0	4.00	3.72	87.0	3.65	4.00		136.0	4.00	4.00
37.0	2.14	1.16	88.0	4.00	3.94		137.0	3.89	3.34
38.0	2.95	3.82	89.0	1.76	1.99	1	138.0	2.46	1.42
39.0	2.19	2.57	90.0	2.19	2.49	1	142.0	2.30	3.44
40.0	2.38	1.70	91.0	2.30	2.45		143.0	2.73	3.52
41.0	4.00	3.89	93.0	4.00	4.00		144.0	4.00	3.82
42.0	3.65	2.88	94.0	3.95	3.88		146.0	3.59	3.43
43.0	3.22	3.85	95.0	2.27	2.14		147.0	2.54	2.30
44.0	4.00	4.00	96.0	2.51	3.00		148.0	3.11	3.66
45.0	3.41	3.19	97.0	2.51	2.84		149.0	3.95	3.90
46.0	3.89	3.53	98.0	3.89	3.97		150.0	2.51	2.37
47.0	2.70	3.06	99.0	3.84	3.91] [151.0	2.62	2.03

Burial #	Crania	Post-Crania	1 C
152.0	4.00	4.00	
153.0	2.92	3.73	
154.0	2.00	1.65	
155.0	4.00	3.63	
156.0	4.00	3.49	
157.0	4.00	3.90	1
158.0	2.35	1.26	1
159.0	2.78	3.20	1
160.0	3.08	4.00	1
162.0	3.84	3.41	1
163.0	4.00	3.65	
164.0	3.76	3.12	
165.0	3.35	2.87	
166.0	3.68	3.50	1
167.0	2.51	3.85	
168.0	4.00	3.42	
169.0	3.54	3.85	
170.0	4 00	3.84	1
171.0	2 43	1.55	
172.0	3 78	2.67	
172.0	3.81	3.90	
173.0	2 41	2 35	
175.0	2.41	2.33	-
175.0	2.70	2.45	-
177.0	2.00	3.48	-
178.0	4.00	3.74	-
170.0	2.03	1 30	-
1/9.0	2.05	2.07	-
181.0	2.55	2.07	-
182.0	4.00	2.30	-
182.0	2.54	3.94	-
184.0	3.34	4.00	-
104.0	4.00	2.30	-
105.0	1.95	2.49	-
180.0	2.92	5.21	-
187.0	2.78	1.05	-
188.0	4.00	3.80	-
189.0	4.00	5.95 2.25	┥┝
190.0	2.97	2.22	┤┝
191.0	2.70	2.38	┥┝
192.0	2.80	3.34	┥┝
193.0	2.81	2.85	┥┝
194.0	3.43	2.90	┥┝
195.0	2.86	1.29	┤╞
196.0	2.49	2.38	-
197.0	2.35	1.85	┥┝
198.0	4.00	4.00	┥┝
199.1	2.62	2.53	┥┝
199.2	4.00	3.91	┥┝
200.0	2.05	3.25	┤┝
201.0	3.78	4.00	┥╽
202.0	2.89	3.49	┤┝
203.0	3.81	3.80	
204.0	4.00	3.85	

Burial #	Crania	Post-Crania
205.0	2.57	1.18
207.0	2.43	3.07
208.0	4.00	3.80
209.0	2.84	2.30
210.0	2.16	1.16
211.0	4.00	4.00
212.0	3.95	3.56
213.0	3.00	2.83
214.0	2.30	2.23
215.0	3.97	3.77
216.0	3.11	3.63
217.0	4.00	2.79
218.0	4.00	4.00
219.0	3.78	3.37
220.0	4.00	4.00
221.0	2.05	2.65
222.0	4 00	3.18
223.0	2 41	1.26
223.0	3 19	3.91
224.0	3 32	2.13
225.0	3.95	4.00
220.0	3.70	3.77
227.0	4.00	3.55
228.0	4.00	3.33
229.0	2.02	3.43 2.12
230.0	2.24	2.12
235.0	4.00	4.00
234.0	3.95	4.00
235.0	2.24	1.70
230.0	3.10	3.88
237.0	4.00	3.91
238.0	2.27	1.80
239.0	3.00	3.73
240.0	4.00	3.99
241.0	2.62	1.57
242.0	1.65	1.40
243.0	2.00	1.27
244.0	3.54	2.51
245.0	3.38	3.64
247.0	2.54	3.18
248.0	4.00	3.73
249.0	4.00	4.00
250.0	3.84	3.95
251.0	3.08	3.50
252.0	2.97	2.48
253.0	2.65	2.55
254.0	3.05	3.82
255.0	4.00	4.00
256.0	2.41	2.34
257.0	2.92	1.66
258.0	4.00	4.00
259.0	3.05	2.26
260.0	3.95	3.93
262.0	2.05	1.52

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Burial #	Crania	Post-Crania
265.0 3.95 4.00 266.0 2.76 1.98 267.0 3.43 3.59 268.0 3.89 3.70 269.0 3.32 3.94 270.0 2.76 3.01 271.0 2.43 2.70 272.0 4.00 4.00 273.0 4.00 3.98 274.0 2.84 3.93 275.0 4.00 3.92 276.0 2.76 1.59 277.0 4.00 3.93 278.0 2.49 1.37 279.0 4.00 3.82 281.0 2.95 3.93 282.0 1.81 2.79 283.0 3.76 3.98 284.0 2.30 2.82 285.0 2.27 1.68 286.0 3.00 2.60 287.0 4.00 3.96 289.0 2.86 3.42 290.0 3.00 3.46 291.0 3.95 4.00 292.0 4.00 3.99 293.0 4.00 3.99 293.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 <t< td=""><td>264.0</td><td>4.00</td><td>3.99</td></t<>	264.0	4.00	3.99
266.0 2.76 1.98 266.0 3.43 3.59 268.0 3.89 3.70 269.0 3.32 3.94 270.0 2.76 3.01 271.0 2.43 2.70 272.0 4.00 4.00 273.0 4.00 3.98 274.0 2.84 3.93 275.0 4.00 3.92 276.0 2.76 1.59 277.0 4.00 3.93 278.0 2.49 1.37 279.0 4.00 3.52 280.0 4.00 3.82 281.0 2.95 3.93 282.0 1.81 2.79 283.0 3.76 3.98 284.0 2.30 2.82 285.0 2.27 1.68 286.0 3.00 2.60 287.0 4.00 3.96 289.0 2.86 3.42 290.0 3.00 3.46 291.0 3.95 4.00 292.0 4.00 3.99 293.0 4.00 3.97 298.0 3.73 4.00 297.0 4.00 3.27 298.0 3.73 4.00 301.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 <t< td=""><td>265.0</td><td>3.95</td><td>4.00</td></t<>	265.0	3.95	4.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	266.0	2.76	1.98
268.0 3.89 3.70 268.0 3.32 3.94 270.0 2.76 3.01 271.0 2.43 2.70 272.0 4.00 4.00 273.0 4.00 3.98 274.0 2.84 3.93 275.0 4.00 3.92 276.0 2.76 1.59 277.0 4.00 3.92 276.0 2.76 1.59 277.0 4.00 3.93 278.0 2.49 1.37 279.0 4.00 3.82 281.0 2.95 3.93 282.0 1.81 2.79 283.0 3.76 3.98 284.0 2.30 2.82 285.0 2.27 1.68 286.0 3.00 2.60 287.0 4.00 3.96 289.0 2.86 3.42 290.0 3.00 3.46 291.0 3.95 4.00 292.0 4.00 3.99 293.0 4.00 3.93 302.0 4.00 3.27 298.0 3.73 4.00 297.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.95 309.0 4.00 3.95 <t< td=""><td>267.0</td><td>3 43</td><td>3 59</td></t<>	267.0	3 43	3 59
260.0 3.32 3.94 270.0 2.76 3.01 271.0 2.43 2.70 272.0 4.00 4.00 273.0 4.00 3.98 274.0 2.84 3.93 275.0 4.00 3.92 276.0 2.76 1.59 277.0 4.00 3.93 278.0 2.49 1.37 279.0 4.00 3.82 281.0 2.95 3.93 282.0 1.81 2.79 283.0 3.76 3.98 284.0 2.30 2.82 285.0 2.27 1.68 286.0 3.00 2.60 287.0 4.00 3.96 289.0 2.86 3.42 290.0 3.00 3.46 291.0 3.95 4.00 292.0 4.00 3.99 293.0 4.00 3.99 293.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 302.0 4.00 3.93 <t< td=""><td>268.0</td><td>3.89</td><td>3.70</td></t<>	268.0	3.89	3.70
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	269.0	3 32	3.94
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	200.0	2.76	3.01
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	270.0	2.70	2 70
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	271.0	4.00	4.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	272.0	4.00	4.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	273.0	2.84	3.98
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	275.0	4.00	3.02
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	275.0	4.00	1.50
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	270.0	2.70	2.02
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	277.0	4.00	1.27
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	270.0	2.49	2.52
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	279.0	4.00	3.32
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	280.0	4.00	3.82
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	281.0	2.95	3.93
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	282.0	1.81	2.79
284.0 2.30 2.82 285.0 2.27 1.68 286.0 3.00 2.60 287.0 4.00 2.87 288.0 4.00 3.96 289.0 2.86 3.42 290.0 3.00 3.46 291.0 3.95 4.00 292.0 4.00 3.99 293.0 4.00 3.84 294.0 3.78 4.00 295.0 3.46 3.80 297.0 4.00 3.27 298.0 3.73 4.00 299.0 2.22 1.84 300.0 3.89 4.00 301.0 4.00 3.93 302.0 4.00 3.71 303.0 3.97 4.00 304.0 3.81 4.00 305.0 2.57 3.26 306.0 1.97 2.40 307.0 3.81 3.88 308.0 3.78 3.95 309.0 4.00 3.05 311.0 2.27 2.01 311.0 2.43 2.08 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	283.0	3.76	3.98
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	284.0	2.30	2.82
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	285.0	2.27	1.68
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	286.0	3.00	2.60
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	287.0	4.00	2.87
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	288.0	4.00	3.96
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	289.0	2.86	3.42
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	290.0	3.00	3.46
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	291.0	3.95	4.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	292.0	4.00	3.99
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	293.0	4.00	3.84
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	294.0	3.78	4.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	295.0	3.46	3.80
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	297.0	4.00	3.27
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	298.0	3.73	4.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	299.0	2.22	1.84
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	300.0	3.89	4.00
302.0 4.00 3.71 303.0 3.97 4.00 304.0 3.81 4.00 305.0 2.57 3.26 306.0 1.97 2.40 307.0 3.81 3.88 308.0 3.78 3.95 309.0 4.00 3.05 310.0 2.27 2.01 311.0 3.81 3.90 312.0 3.16 3.37 313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	301.0	4.00	3.93
303.0 3.97 4.00 304.0 3.81 4.00 305.0 2.57 3.26 306.0 1.97 2.40 307.0 3.81 3.88 308.0 3.78 3.95 309.0 4.00 3.05 310.0 2.27 2.01 311.0 3.81 3.90 312.0 3.16 3.37 313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	302.0	4.00	3.71
304.0 3.81 4.00 305.0 2.57 3.26 306.0 1.97 2.40 307.0 3.81 3.88 308.0 3.78 3.95 309.0 4.00 3.05 310.0 2.27 2.01 311.0 3.81 3.90 312.0 3.16 3.37 313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	303.0	3.97	4.00
305.0 2.57 3.26 306.0 1.97 2.40 307.0 3.81 3.88 308.0 3.78 3.95 309.0 4.00 3.05 310.0 2.27 2.01 311.0 3.81 3.90 312.0 3.16 3.37 313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	304.0	3.81	4.00
306.0 1.97 2.40 307.0 3.81 3.88 308.0 3.78 3.95 309.0 4.00 3.05 310.0 2.27 2.01 311.0 3.81 3.90 312.0 3.16 3.37 313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	305.0	2.57	3.26
307.0 3.81 3.88 308.0 3.78 3.95 309.0 4.00 3.05 310.0 2.27 2.01 311.0 3.81 3.90 312.0 3.16 3.37 313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	306.0	1.97	2.40
308.0 3.78 3.95 309.0 4.00 3.05 310.0 2.27 2.01 311.0 3.81 3.90 312.0 3.16 3.37 313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	307.0	3.81	3.88
309.0 4.00 3.05 310.0 2.27 2.01 311.0 3.81 3.90 312.0 3.16 3.37 313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	308.0	3.78	3.95
310.0 2.27 2.01 311.0 3.81 3.90 312.0 3.16 3.37 313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	309.0	4.00	3.05
311.0 3.81 3.90 312.0 3.16 3.37 313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	310.0	2.27	2.01
312.0 3.16 3.37 313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	311.0	3.81	3.90
313.0 2.70 1.94 314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	312.0	3.16	3.37
314.0 2.46 2.79 315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	313.0	2.70	1.94
315.0 2.43 2.08 316.0 2.62 1.82 317.0 4.00 3.87	314.0	2.46	2.79
316.0 2.62 1.82 317.0 4.00 3.87	315.0	2.43	2.08
317.0 4.00 3.87	316.0	2.62	1.82
	317.0	4.00	3.87

APPENDIX C. PRESERVATION STATUS CODES FOR NEW YORK AFRICAN BURIAL GROUND BURIALS • 225

Post-Crania 3.05 4.00 3.48 3.70 2.99 2.16 3.52 1.32 1.86 3.72 1.59 3.46 1.43 3.59 2.76 3.18 3.13 3.81 2.26 3.80 1.98 3.40 3.75 2.41 1.66 2.30 3.94 3.12 2.91 4.00 4.00 4.00 3.85 3.07 2.66 4.00 3.87 4.00 3.43 4.00 2.52 2.46 3.04 3.60 3.78 2.32 1.66 3.15 3.98 3.80 4.00 4.00 4.00

ſ	Burial #	Crania	Post-Crania	Bu	rial #	Crania
Ī	318.0	4.00	3.98	3	71.0	2.35
	319.0	4.00	3.77	3	72.0	3.89
Ī	320.0	3.92	4.00	3	73.0	2.24
Ī	321.0	3.19	3.93	3	74.0	3.30
ſ	322.0	4.00	3.55	3	75.0	2.95
ŀ	323.0	2.08	1.54	3	76.0	2.30
f	324.0	3.14	2.09	3	77.0	2.81
ŀ	325.0	2.68	2.24	3	79.0	2.05
ľ	326.0	2.38	1.33	3	80.0	1.97
ľ	327.0	2.38	2.36	3	82.0	3.54
ŀ	328.0	1.81	1.94	3	83.0	1.59
ſ	329.0	2.35	2.14	3	84.0	1.70
ſ	329.1	4.00	3.80	3	85.0	1.95
ŀ	330.0	3.00	4.00	3	86.0	2.78
ŀ	331.0	3.27	4.00	3	87.0	2.27
ŀ	332.0	2.65	3.02	3	88.0	2.57
ľ	333.0	2.78	1.91	3	89.0	2.65
ľ	334.0	4.00	4.00	3	90.0	4.00
ľ	335.0	2.57	1.37	3	91.0	3.03
ľ	336.0	3.97	4.00	3	91.1	4.00
ľ	337.0	2.51	1.46	3	92.0	2.97
ľ	338.0	2.43	3.16	3	93.0	2.68
ľ	339.0	4.00	4.00	3	94.0	4.00
ŀ	340.0	2.65	3.05	3	95.0	2.54
ŀ	341.0	2.38	2.66	3	96.0	3.46
ľ	342.0	2.16	1.27	3	97.0	2.78
ľ	343.0	2.03	1.74	3	98.0	3.73
ľ	344.0	2.49	3.91	3	99.0	3.03
Ī	345.0	2.84	3.96	4	00.0	2.84
Ī	346.0	3.16	3.23	4	01.0	4.00
Ī	347.0	3.95	4.00	4	02.0	4.00
Ī	348.0	3.27	3.77	4	03.0	2.05
Ī	349.0	4.00	3.95	4	04.0	3.95
Ī	350.0	3.84	3.79	4	05.0	2.76
Ī	351.0	2.51	2.41	4	06.0	2.76
Ī	352.0	3.35	3.27	4	07.0	4.00
Ī	353.0	2.27	2.15	4	08.0	4.00
Ī	354.0	1.86	1.80	4	09.0	4.00
Ī	355.0	4.00	4.00	4	10.0	4.00
ľ	356.0	3.76	3.73	4	12.0	3.65
l	357.0	2.89	3.03	4	13.0	2.84
l	358.0	4.00	3.91	4	14.0	2.84
Ī	360.0	4.00	4.00	4	15.0	3.19
Ī	361.0	2.16	3.21	4	16.0	4.00
Ī	362.0	2.86	3.98	4	17.0	3.89
ľ	363.0	2.43	2.00	4	18.0	2.84
Ī	364.0	3.78	3.13	4	19.0	2.19
l	365.0	4.00	3.57	4	20.0	3.81
l	366.0	2.70	2.06	4	20.1	4.00
ľ	367.0	3.89	4.00	4	20.2	4.00
ľ	368.0	2.38	1.67	4	23.0	4.00
Ī	369.0	1.86	1.24	4	24.0	4.00
Ī	370.0	3.95	3.98	4	26.0	4.00

Burial #	Crania	Post-Crania
427.0	2.97	2.20
428.0	2.41	3.08
429.0	4.00	4.00
430.0	4.00	4.00
431.0	4.00	3.95
432.0	4.00	4.00
433.0	4.00	4.00
434.0	4.00	4.00
435.0	4.00	4.00
436.0	4.00	4.00