

Online Course 2024
PALEOPATHOLOGY COURSE



32 hours; Price: 215 €

1. PALEOPATHOLOGY AND PSEUDOPATHOLOGY

- Definition
- Pseudopathologies
 - Natural causes
 - Anthropic action
 - Pseudopathology associated with mortuary practices
 - Microbial agents
 - Anatomical variability
 - Pseudo diagnostics
- General stress indicators

2. INFECTIOUS DISEASES

- Biological principles of infection
- Periostitis and its diagnostic value
- Bacterial infections: Examples and cases.
Characteristics, history and differential diagnosis
- Tuberculosis. Leprosy. Syphilis. Osteomyelitis.
Brucellosis. Other infectious diseases of bacterial origin.
- Parasitic infections: Examples and cases



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3. METABOLIC AND ENDOCRINE DISEASES

- Scurvy
- Vitamin D deficiency: rickets and osteomalacia
- Osteopenia and osteoporosis
- Hyperostosis frontalis interna
- Gigantism and acromegaly

4. MICROSCOPY (lecturer: Álvaro Monge Calleja, PhD in Biological Anthropology)

- Potential of microscopy in Paleopathology: enlargement of the visual field and other variables of interest
- History of microscopy and application in Paleopathology
- Types of microscopes and sample viewing mechanism: optical vs. electronic
- 3D visualization (scanning electron microscope) vs. 2D (histology): advantages and disadvantages
- Practical examples of its application in pathological cases



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5. DENTAL PATHOLOGY (lecturer Laura González-Garrido, PhD in Dental Anthropology)

- Dental wear
- Tooth decay and periapical inflammation
- Periodontal disease
- Recognition of the type of tooth loss: antemortem, perimortem and postmortem
- Maxillofacial and temporomandibular pathologies

6. GENETIC-BASED BONE DISEASES (lecturer Sofia Zdral, PhD candidate)

- Introduction to the inheritance of traits, Mendelian genetics and genetically based diseases
- Concept of bone dysplasia, hereditary syndrome and congenital disease
- Most frequent skeletal dysplasias
- Genetic syndromes with bone and/or dental involvement
- Differential diagnosis
- Practical cases



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7. DEGENERATIVE DISEASES

- Degenerative diseases in the spine
- DISH
- Ankylosing Spondylitis
- Rheumatoid arthritis
- Juvenile Rheumatoid Arthritis
- Osteoarthritis
- Gout

8. NEOPLASTIC DISEASES

- Cancer in ancient times
- General principles of neoplastic diseases
- Primary benign tumors
- Primary malignant bone tumors
- Metastatic tumors

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9. TRAUMATIC INJURIES

- Antemortem, perimortem and postmortem trauma
- Types of fractures
- Dislocations
- Interpersonal violence:
 - Blunt force trauma
 - Sharp force trauma
 - Gunfire injuries
 - Skeletal evidence of torture
- **PRACTICE: DIFFERENTIAL DIAGNOSIS**

10. PALEORADIOLOGIC TECHNIQUES

- Paleoradiologic techniques
- Paleoradiological diagnostic for paleopathologists
- Taphonomic process, biological variation, and X-ray studies
- **PRACTICE: DIFFERENTIAL DIAGNOSIS**

Special discount for 2 courses – 20% off!



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11. A BRIEF HISTORY OF MEDICAL AND COSMETIC TREATMENTS

- Amputations
- Signs of autopsies
- Trepanations
- Intentional deformations
- Use of mercury in medicine

12. FINAL REMERKS

- Comorbidity
- Developmental Origin of Health and Disease (DOHaD) theory
- Osteological paradox
- How to publish your case in a journal?
- **PRACTICE**

**Course director: Natasa Sarkic, PhD in Physical Anthropology
Founder CEO of AITA BIOARCHAEOLOGY**

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