



Forensic Anthropology: The Intersection of Science, Justice, and Human Rights

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INTRODUCTION

Forensic anthropology is a specialized field that applies the knowledge of physical anthropology to medico-legal contexts. Forensic anthropologists are important in criminal investigations, disaster recovery, and human rights efforts, providing expertise to assist in identifying victims, determining the circumstances of their deaths, and offering insights into the historical and cultural significance of skeletal remains.

DESCRIPTION

The role of forensic anthropologists in modern investigations

The field is particularly relevant in scenarios where human remains are incomplete, degraded, or fragmented, making traditional identification methods like fingerprinting or facial recognition impossible. Forensic anthropologists specialize in the analysis of human remains, drawing from their understanding of osteology (the study of bones), taphonomy (the study of post-mortem changes), and human variation to identify unknown individuals and analyze the cause and manner of death.

Identification of skeletal remains: A primary function of forensic anthropologists is to establish the biological profile of skeletal remains. This involves determining key factors such as age at death, sex, ancestry, and stature, as well as identifying any unique features or pathologies that might assist in identification. These characteristics are determined through the detailed examination of skeletal markers.

Cause and manner of death: Forensic anthropologists are also trained to recognize trauma patterns on bones that can indicate how an individual died. Trauma analysis can help differentiate between injuries sustained before death (antemortem), injuries occurring at or near the time of death (perimortem), and injuries that occurred after death (postmortem). The distinction between these types of trauma is important in establishing whether injuries were related to the cause of death or were inflicted after the individual had already died.

Forensic anthropology in mass disasters and human rights investigations

Forensic anthropology has become a key discipline in responding to mass disasters and documenting human rights violations. The identification of victims in mass casualty events, such as natural disasters, plane crashes, or acts of terrorism, requires a multi-disciplinary approach. Forensic anthropologists bring a unique set of skills to these investigations, helping to identify remains when other methods are not viable.

Human rights investigations: One of the most significant contributions of forensic anthropology has been its role in documenting human rights violations. In the aftermath of conflicts, genocides, and mass atrocities, forensic anthropologists are called upon to excavate and analyze mass graves, helping to identify victims and establish the nature of the crimes committed. Their findings provide crucial evidence for war crimes tribunals and truth commissions, aiding in the pursuit of justice and accountability.

Challenges and ethical considerations in forensic anthropology

As forensic anthropology continues to grow and evolve, it faces several challenges. The field must struggle with ethical considerations, technological advancements, and the need to maintain rigorous scientific standards in a variety of contexts.

Ethical considerations: Working with human remains carries significant ethical responsibilities. Forensic anthropologists must be mindful of the cultural and religious beliefs of the individuals and communities they work with. This is particularly important in indigenous contexts, where the excavation and analysis of human remains may conflict with spiritual or cultural practices. Native American tribes claimed the remains under the Native American Graves Protection and Repatriation Act (NAGPRA), arguing that the remains were culturally significant and should be relocated. The case raised important ethical questions about the ownership and treatment of ancient human remains.

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Technological advancements: As technology advances, forensic anthropology must adapt to incorporate new tools and techniques. Digital imaging, 3D modelling, and isotopic analysis are just a few of the innovations that have transformed the field in recent years. These technologies allow forensic anthropologists to analyze skeletal remains with greater precision and provide more detailed information about an individual's life and death.

CONCLUSION

Forensic anthropology has evolved from its roots in physical anthropology to become a critical component of modern

forensic science and humanitarian efforts. By providing expertise in the analysis of human skeletal remains, forensic anthropologists contribute to the identification of the deceased, the determination of cause and manner of death, and the documentation of mass atrocities. Their work bridges the gap between science and justice, offering a voice to the voiceless and bringing closure to families and communities affected by violence and tragedy.