

Keywords: Forensic Odontology; Forensic Dentistry; Human

3D imaging and digital forensics

With advances in technology, 3D imaging and digital forensics have become increasingly important in forensic odontology. 3D imaging allows for the precise reconstruction of bite marks, dental structures, and even entire facial features based on dental remains. Digital dental records, stored in databases, also facilitate faster and more accurate identification processes, especially in mass disaster situations.

Challenges and limitations

While forensic odontology is a powerful tool in forensic science, it is not without its challenges and limitations. Some of the key issues include:

Bite mark analysis controversy

Bite mark analysis has faced increasing scrutiny over the years due to questions about its reliability and scientific validity. Studies have shown that bite marks can be distorted by the skin's elasticity and that there is considerable variation in human dentition. As a result, bite mark analysis has been criticized as being subjective and prone to error. In recent years, several high-profile cases have resulted in wrongful convictions based on bite mark evidence, prompting calls for stricter

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