Severe Penetrating Craniofacial Stab Injury with Retained Sharp Knife with Rounded Handle: A Very Rare Case

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Abstract:

Background: Craniofacial penetrating injuries are unusual but may cause massive injury to facial tissues and severe brain damage if cranium is entered. Because of the very critical anatomical area involved, these injuries can be challenging to the physicians who first receive them as well as the treating team. Prompt evaluation by utilizing the best diagnostic modality available and timely interference to remove foreign objects is the key aspects to avoid damage to vital organs surrounding the injury and to minimize the late complications.

Case report: We report a case of 24 year old male presented in surgical emergency that sustained a severely penetrating craniofacial assault with a 15 centimeter long sharp knife with intact iron handle and retained blade. Patient was adequately resuscitated and x- ray skull and CT of head along with 3 dimensional reconstruction of face was done to assess any injury. CT scan showed no brain parenchymal injury and only undisplaced fracture of the anterior cranial fossa.

Methods and Result: Patient was explored surgically on an emergency basis. The debridement of the wound was done, bone fragments and necrotic tissue was excised. The penetrating knife was gradually removed after surgical procedure. The patient recovered well, and there was no neurological deficit on discharge.

Conclusion: The management of penetrating craniofacial trauma is a challenging task and should be handled by multidisciplinary team, so that the management and outcome can be favorable.

Keywords:

Daylighting, Urban Daylight Simulation, Machine Learning, Artificial Neural Networks.