The mangled hand Revisited: The challenge of the functional reconstruction

Hazem Alfeky, University Hospitals Coventry and Warwickshire, UK.
Susie Yao, Jamie Barnes, Ahmed Abd El Gawad, Irfan Khan, Chris West, David Bell, Whiston Hospital, UK.

• Introduction: The mangled hand is one of the challenges hand surgeons face on a routine basis. Hand surgeons should have their options open when faced with such devastating injuries. Restoration of not only the look but mainly the function is crucial for post injury functional and psychological integration with society.

• Patients and methods: We present our experience with mangling hand injuries including sever soft tissue and bone loss that necessitates bone and soft tissue transfer through pedicled and microvascular techniques as the wound dictates. In our regional Plastic surgery service, we provide a great variety of post traumatic reconstruction for complex hand trauma cases with good functional outcomes.

• Results: Reconstruction through analysis of the defect and adopting staged approach when needed. Planning in reverse and respecting the early mobilisation principles usually dictates the sequence of the layered repair of mangled hand.

• Conclusion: Early tumour like surgical debridement combined with soft tissue coverage and anatomical layered repair through replacing.