Transplantation of a full-cut upper limb (in wrist): A cases study

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Abstract

Background: Complete traumatic amputation of upper limb in wrist area is relatively rare. During the past years thanks to advances in scientific and microscopic methods peripheral nerve surgery has increased the success rate of such surgeries.

Case Presentation: An 18 year old man with his wrist has been cut for about 6 hours in an accident was referred to emergency Ward of Taleqani Hospital of Kermanshah. The patient suffered from complete cut of left wrist in car accident in 2008. The patient was really agitated and restless. His Blood pressure was 50/90 mm Hg and pulse rate was 120 per minute. Cut hand has been pressed and contaminated with soil and was wrapped in cloth and sent to the medical center. At first radius and ulnar bones were fixed by pin and articular capsule was sutured. In the second stage muscles were sutured. Arteries and veins in the third stage were anastomosed. Vessels were anastomosed end-to-end. Median, radial and ulnar nerves were restored by microscopic surgery after blood supply of hand has been flown. Finally, fasciotomy of organ was done to prevent compartment syndrome.

Conclusion: Two years later it was realized that the patients’ sense of touch, heat and pressure of hand was remarkably good in transplanted hand and the surgery was really successful.

Keywords: organ transplantation, cut wrist
References