**Outcome of Finger tip replantaion**

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**Abstract**

**Background:** fingertip injury is most commonly presented to emergency department and from those we have chosen the fingertip amputation only as the aim of our study is to evaluate the outcome of fingertip replantation regarding the success and failure of the procedure and then to assess the functional and aesthetic outcome.

**Patient and method:** we had 12 patients with 14 fingertip replantation as two of them had two fingertip amputation, and those fingertip replantation held between( 2016-2021), most of them work related and few with nonwork related from those (1o) were male and (2) were female ,the level all were tamaii (1 or 11),in all cases the operation done under general anesthesia. In all cases except in one the bone fixation done after the anastomosis of artery. The vein (whenever possible )done +\_nerve repair ,sometime vein graft was in need ,and all that done under microscopic magnification and using heparin intraoperative and postoperatively, and if venous congestion happened we have used medicinal leech to overcome this problem and probably in needing patient for blood transfusion.

**Result:** the operation time took from(4-10)hrs and the average hospital stay of patients were(6-10) days and from these 14 fingertip replantation we had only 3 failure(15%)those had crush mechanism of injury and 11 success (85%) that most of them with sharp injury ,and on follow upping of those replantation’s that period variable in each from 3 months up to one year. functional outcomes were all satisfactory regarding sensory recovery and DIP joint movement were good except for 2 patients that have intra articular DIP joint injury and cosmetically was excellent apart from nail deformity in only 3 patient .

**Conclusion:** we have found that replantation give the best satisfaction regarding functional and aesthetic result in compare to all other options of management ,and venous congestion is most common cause of crise occurs post operatively and its well manageable with using medicinal leech and giving heparin intraoperative and postoperative period .