Reverse Saphenous Conduit Flap: A Case Report in a Cat with severe large metatarsophalangeal degloving injury

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Case Description- A four years old male cat was referred to the Veterinary Clinic of Urmia University with a history of non-weight bearing lameness of the right hindlimb due to dragging trauma of vehicle accident.

Clinical Findings- There was a large metatarsophalangeal degloving injury of dorsal right hindlimb along with the complete loss of digit II and III. Radiographs revealed the fracture of the lateral malleolus and tarsal join subluxation. No any other fracture, rupture or herniation was detected.

Treatment and Outcome- Initial debridement, lavage, and wound dressings was performed. Stabilization of medial malleolus fracture and luxation with internal fixators were also performed during the wound management. After two month a healthy pink granulation tissue was seen. Because of the large tissue and skin loss the reverse saphenous conduit flap was chosen for reconstruction. Before creating the flap, the length of skin needed is carefully measured. The proximal incision is made first, cranially to caudally and the saphenous artery and vein are ligated and divided. The cranial and caudal incisions are made to the level of the tibiotarsal joint. A bridging incision is made and the flap rotated into place. A drain was placed and the defects apposed. After five days the drain was removed. Two weeks later the graft completely healed and one month later hair grew.

Clinical Relevance- Treatment of large, distal extremity degloving injuries of dogs and cats is technically difficult. The desirable results achieved with the mentioned method, emphasize the use of this method for such cases.

Key Words- Axial Pattern Flaps, Reverse Saphenous Conduit Flap, Abrasion, Degloving Wound, Cat.

References