

**PP-063****The free osteofasciocutaneous fibula flap: clinical applications in skeletal reconstruction****M. Adamesteanu**, D. Zamfirecu, I. Lascar*Clinical Emergency Hospital Bucharest, Bucharest, Romania*

**Introduction:** The free microsurgical transfer of the osteofasciocutaneous flaps is one of the most frequently used methods for skeletal reconstruction. The fibula has advantages and disadvantages, but, at least for the moment, it represents the golden standard for the reconstruction of various bone defects, including mandible, middle face, long bones such as the humerus or femur.

**Methods:** We review our experience of skeletal reconstruction using free fibula osteofasciocutaneous flaps in a series of 4 patients with long bone defects due to trauma, tumor resection or bone necrosis. We adopted a two team approach - plastic and orthopaedic surgeon. While the orthopaedists performed tumor or debris excision, the plastic surgery team performed the flap dissection, the receptor vessel dissection and the vascular anastomosis. Both teams participated in bone shaping and final closure.

**Results:** Short term follow-up (6-24 months) shows satisfactory functional and aesthetical outcome. Bone integration was complete. Limb function was preserved.

**Keywords:** Bone defect; Free fibula flap; Extremity reconstruction; Composite tissue allograft

**Acknowledgement:** This paper was co-financed from the European Social Fund, through the Sectorial Operational Programme Human Resources development 2007-2013, project number POSDRU/159/1.5/S/138907 "Excellence in scientific interdisciplinary research, doctoral and postdoctoral, in the economic, social and medical field- EXCELIS", coordinator The Bucharest University of Economic Studies".