

Conclusions: intramedular nailing osteosynthesis represents a favorable method for healing the long tubular bone fractures. This method represents reduced surgical traumatism, less hemorrhage, early mobilization and low risk of perioperative complications.

Keywords: diaphyseal fractures, long tubular bones, intramedular nailing

SURGICAL TREATMENT OF FRACTURES IN REGIONAL HOSPITAL



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Study objectives: The analysis of the results of fractures surgical treatment in the Orthopedics and Traumatology Department of the Regional Hospital.

Methods and Materials: 1689 patients were treated in the Orthopaedics and Traumatology Department of the Regional Hospital during years 2011-2015. The surgical treatment ratio during the period covered by the study increased from 9.7% to 19.2%, as per Hospital provisioning with implants, with an average ratio of 16.3%. The methods of osteosynthesis applied in closed diaphyseal fractures: clavicle with intramedullary nail – 25 (9.5%), arm with plate – 11 (4.2%), forearm – 12 (4.6%) centromedular fixation and 22 (8.4%) plate fixation, femur – centromedular 10 (4%) and plate fixation 2 (0.5%); leg with plate fixation – 7 (2.7%), Ilizarov device – 12 (4.6%); malleolus with plate fixation – 44 (16.7%) nail fixation – 21 (7.9%); leg and hand nail fixation – 81 (30.7%). In open fractures we preferred osteosynthesis with Ilizarov device – 15 (5.8%). Surgical interventions were applied in 2-7 days after trauma.

Results: Slow consolidation in diaphyseal fractures at 6 patients (2.2%), pseudarthrosis at 2 patients (0.7%). Septic complications were observed in closed fractures in 2 cases (0.7%) (soft tissues inflammation). Leg open fractures had complications in 6 patients – soft tissues necrosis. These fractures were treated with a tegumentary plasty. Osteitis in 2 patients.

Conclusion: A stable osteosynthesis of diaphyseal fractures was obtained by fixation with plates and extrafocal fixation with Ilizarov device. Short term and long term results obtained were classified as good.

Keywords: Osteosynthesis, Diaphyseal fractures.

SELECTIVE ARTHRODESIS IN WRIST INSTABILITIES: INDICATIONS AND SURGICAL TECHNIQUES



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The causes of deforming arthritis of the hand are ligament injuries associated with subluxations and luxations, fractures of the carpal bones, malunions, and osteoarticular diseases as Kienbock disease. There are many surgical interventions to resolve these problems (D. Green)

Materials and methods

Our experience is based on the treatment of 134 patients with deforming osteoarthritis of the wrist who underwent various selective arthrodesis. The average duration of disease was 3 years. Kienbock disease was diagnosed in 41 patients, pseudoarthrosis of the scaphoid complicated by deforming osteoarthritis - in 68 cases, rotational subluxation of the scaphoid - in 9 cases, trapezium-trapezoid-scaphoid osteoarthritis - in 4 patients and malunion of the radius fracture - in 4 cases.

Results and discussions

Nowadays deforming arthritis occurred in the wrist more often requires surgical treatment. Arthrodesis directed to obtain an ankylosis of the carpal bones by losing the amplitude of movements allows to achieve a stable joint, without pain and to restore gripping power.

In 68 patients with scaphoid pseudoarthrosis complicated with deforming osteoarthritis, arthrodesis of "four carpal bones with scaphoidectomy" in 49 cases, total wrist arthrodesis in 7 cases, scaphocapitate arthrodesis in 3 cases, removing the first row of carpal bones in 3 cases, scaphoidectomy in 4 cases, radial-scaphoid arthrodesis - in 1 case, and in other scapho-trapezium-trapezoid arthrodesis.

In 41 patients with Kienbock disease, Graner operation was performed in 16 cases, arthrodesis of "three carpal bones" in 10 cases, capitate-scaphoid arthrodesis - in 8 cases, radial-semilunar - in 4 cases, radial-scaphoid arthrodesis - in 1 case, removing the first row of carpal bones - in 2 cases.

Arthrodesis of "three carpal bones" was performed in 4 cases of deforming arthritis of the scapho-trapezium-trapezoid joint. Triple scaphoid arthrodesis, arthrodesis of "three carpal bones" was done successfully on 9 patients with rotational subluxation of the scaphoid.

Total wrist arthrodesis was performed in 4 cases of the intraarticular radial fracture malunion.