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Treatment of proximal humeral fractures-osteosynthesis and alloplasty of the shoulder joint

Karol Szyluk

District Hospital of Orthopedics and Trauma Surgery, Poland

Fractures of the proximal humerus account for about 5-7% of all fractures. The incidence is approximately 70 per 100,000 per year, but rises to 400/100.000/ year in women over 70 years old. In women ≥ 80 years old, the incidence is third only to fractures of the proximal femur and of the distal radius. Despite the rapid development of surgical techniques and an increasingly perfect implant, the treatment of proximal humeral fractures is a serious challenge. Firstly, this is related to the extremely complex biomechanics of this anatomical region and the action of muscles attaching to tuberosity of the proximal humerus, which, by pulling, lead to the displacement of bone fragments. Secondly, it is due to anatomical factors such as blood supply and the morphology of the articular surface. Therefore, the following questions are still relevant: who needs surgery, when to operate, what technique to use, how to reduce the risk of complications. Imaging tests and the necessary use of available fracture classifications are certainly useful in making decisions, but is reliance on these criteria a guarantee of success? And finally, which patients need fixation with plates and who require alloplasty. The question is complex. Especially when the surgeon has at his disposal: anatomical shape and fully modular prostheses-the fourth generation.

Biography

Karol Szyluk is an Orthopaedic Surgeon. He has completed his Graduation at Silesian Medical University, Katowice, Poland in the year 2001. He is a Consultant and Deputy Head in District hospital of Orthopedics and Trauma Surgery in Piekary Slaskie, Poland. He is a Professional Member of the Polish Society of Orthopaedics and Traumatology, Polish Society of Sports Medicine, Polish Society of Shoulder and Elbow, Société Européenne Pour La Chirurgie De L'épaule Et Du Coude, European Society for Surgery of the Shoulder and the Elbow, European Wrist Arthroscopy Society. He is an author and co-author of more than 30 scientific papers, published in scientific literature. He is the Reviewer of the *Medical Science Monitor*, Scientific Consultant at Hofer-medical, Scientific Consultant at Lima Corporate, Member of the Scientific Council of the Center Medical Training Pact. He is the Head of the research project from 2017 to 2020 with the title: "The effect of selected genetic factors on the efficiency of the treatment process of tennis elbow (lateral Epicondylitis) with autologous platelet rich plasma".

kszyluk@o2.pl

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