

Date: 2009-11-01

Session: Arthroplasty-Shoulder & Elbow

Time: 1030-1200

Room: Pattaya 11

Abstract number: 22076

MID-TERM RESULTS AFTER LATITUDE® ELBOW ARTHROPLASTY - EVALUATION OF ELBOW FUNCTION WITH A ASSESSMENT SET

Michael JOHN, Wolfram NEUMANN, Katja SCHENK, Sebastian LIESKE

Department of Orthopaedics, Otto-von-Guericke University, Magdeburg (GERMANY)

The Latitude Total Elbow is the first 3rd generation elbow prosthesis, provides a high modularity of its components, features a true anatomical joint reconstruction and is adaptable to a wide range of indications. We assessed mid-term results of the Latitude prosthesis using a comprehensive assessment set for the evaluation of subjective elbow function and objective clinical findings. 52 patients were treated with elbow arthroplasty due to rheumatoid or posttraumatic arthritis since 2005. We underwent a retrospective joint assessment for the subjective and objective evaluation using the following scores: SF-36, DASH, PREE, ASES-e. The mean follow up time was 3.6 years. In the SF-36 score, the mean physical component scale (PCS) was worse the mean mental component scale (MCS) better than normative values of a German population. Whereas the pain level dropped down to normal, functional deficits remains: PREE 67.9, ASES-e 67.1, DASH 57.5 points. Clinical examination resulted in a mean ASES-e score of 75.6 points. The grip strength measured 17.2 kg, the ROM (flexion/extension) 116.2 degree on average. 87% of the patients were completely satisfied with the operation result, 89% would undergo the procedure again. Assessment of mid-term results after elbow arthroplasty yielded good clinical and subjective results. Despite the functional deficits patient satisfaction was high and quality of life could be regained significantly. The absence of major complications such as loosening or instability indicates for the accuracy of the implant, restoring the natural kinematics and function of the elbow joint.