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Circular acetabular osteotomy and cup implantation in Postdysplastic hip arthrosis

Jiri Stehlik
Czech Republic

Objective: Radiological and clinical evaluation of patients who underwent acetabular osteotomy during total hip arthroplasty (THA) for postdysplastic hip arthrosis.

Methods: Acetabulum osteotomy was used to allow correct cup position and firm holding of acetabular component of THA in patients with severe postdysplastic acetabular bone defects. A prospective study was conducted evaluating patients who underwent acetabular osteotomy during THA. We collected data on demography, previous surgeries, range of motion and Harris hip score. CT scans were arranged in all patients preoperatively and also postoperatively.

Results: 15 THA surgeries with additional acetabular osteotomy were performed. We evaluated 8 patients in average age of 54. Six patients already underwent orthopedic surgery for hip dysplasia. Spherical press-fit cups were used in all cases. Average postoperative Harris Hip score was 79.5. 1 hip had to be re-operated because of cup malposition.

Conclusion: Acetabular osteotomy during THA is quite rare indicated part of THA surgery and must be precisely planned preoperatively using CT scans. This surgery may assure firm holding of acetabular component especially among patients with severe postdysplastic acetabular bone defects.

Biography

Jiri Stehlik studied at Charles University at Prague and he started his career at University Hospital Vinohrady at Prague, where he also finished his PhD program and afterwards became an associated professor. He published a monography about calcaneus fractures, and was a co-founder of czech external fixation system. He was an initiator of MIS A-L technique in Czech Republic and presented many papers on this topic. He is focusing on postdysplastic hip arthrosis and is using innovative techniques how to ensure ideal prosthesis implantation.

stehlik.ortop@email.cz