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Revision Total Hip Arthroplasty with Acetabular Reinforcement Rings (ARR); Midterm Follow-up Results

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Introduction. The increasing number of patients requiring revision arthroplastics supports the topicality of the theme. Especially for loose or migrated cup components with collateral bone loss.

The aim. The aim of the study is to evaluate the midterm results of acetabulum reinforcement ring (ARR) with allograft for reconstructing acetabulum defects in hip revision.

Materials and methods. Revision hip arthroplasty with ARR 53 hip was performed between 2004 and 2011 (1–6 years) in retrospective series. The evaluation methods were Harris hip score pre and post revision operation and x-ray evaluation by Charnley, De Lee. Acetabular defects were classified by Poprowsky.

Results. Follow-up data were available in 48 cases. 5 patients were signed out from medical records. Reasons for ARR revisions were aseptic loosening in 38 cases for and infection in 10 cases. The mean preoperative Harris HS 38 (range 20–64) points improved up to 88 (range 74–94) points.

Conclusion. Revision THA using acetabular reinforcement rings ends up with acceptable results. Septic complications and lysis of the bone graft with consecutive failure of the ARR remains problematic.