

The author evaluates the role of imaging methods in diagnosis of AVN of the femoral head. She foccuses especially on MRI, she finds this imaging modality the most suitable in diagnosis of early stages of AVN. In therapy of AVN, revitalizing operation on the femoral head with using surgical diamond instruments is a promising therapeutical procedure. The author summarizes short term results in group of patients who underwent revitalizing operation.

The special attention is given to patients after renal trasplantation. In this group of renal transplant recipients the author suggests MRI as a screening method for early detection of AVN of femoral head during the first year after transplantation.

In the last part of report, the author evaluates using MRI in acute fracture of proximal femur. She suggests MRI of the hip as a method of choice in concrete age group of patients (about between 40-65 years). Considering this patients, the method significantly helps in choosing of adequate therapy and the proper type of surgical approach.