

Osteoarthritis - surgical treatment

- We proceed to surgical treatment if conservative treatment fails, the patient cooperates and there is no contraindication to this procedure.

Basic types of operations

- corrective osteotomy – cutting the bone and aligning its axis;
- arthrodesis – immobilization of the joint by surface resection and fusion;
- alloplastic

More details to alloplastic you can find in Total endoprosthesis of the knee joint and Artificial replacement of the hip joint.

Surgical treatment of gonarthrosis

- They are all symptomatic procedures.
1. Arthroscopic lavage
 - removal of small fragments of cartilage that release inflammatory mediators will alleviate the difficulties in the short term.
 2. Shaving
 - arthroscopic treatment of cartilage defects, where parts that cause mechanical difficulties or can become loose are removed.
 3. Debridement
 - arthroscopic removal of loose bodies, damaged parts of cartilage, menisci, osteophytes,...
 4. Synovectomy
 - removal of the hypertrophic inflammatory synovial membrane.
 5. Corrective osteotomy
 - when only one compartment of the joint is affected, associated with valgus or varus deformity;
 - we cut the bone and let the parts fuse together, the effect usually lasts for many years;
 - increases the risks of later endoprosthesis implantation;
 - good to perform as close as possible to the joint, where there is spongiosis, which heals better – on the tibia just above the tuberosity, on the femur above the epicondyles;
 - many types, most often wedge-shaped osteotomies;
 - we fix the new position with osteosynthesis.
 6. Arthrodesis
 - an alternative to total endoprosthesis in very severe gonarthrosis with significant surface defects, the bones are allowed to fuse together in a physiological valgus position and in a flexion of 5-10°.
 - the function will also allow you to drive a car,...

Surgical treatment of coxarthrosis

1. Osteotomy
 - it is based on a mechanical concept of disease pathogenesis;
 - many types, varus and valgus intertrochanteric osteotomy.
2. Arthrodesis
 - in the time before alloplasty it was a very good method;
 - enables stable and painless standing and walking.

Links

Related Articles

- Osteoarthritis Arthrosis
- Osteoarthritis - conservative treatment

Resources

- BENEŠ, Jiří. *Studijní materiály* [online]. Jiří Beneš, ©2012. [cit. 16.2. 2012]. <http://jirben2.chytrak.cz/materialy/orto,trauma_jb.doc>.