Glenoid Component Fixation

During total shoulder arthroplasty, a polyethylene component is fixed to the glenoid side of the joint. This component serves as the articulation surface between the humeral head and the glenoid. Loosening of the glenoid component is the highest incidence of complication. This loosening may cause pain and impaired movement. Preventing the loosening of this component can increase the lifetime of the implant. Ongoing research aims at testing new ways to increase this component fixation. Increasing fixation can lead to decreased revision surgeries improving patient outcomes.