

WHEN FACING A HIGH RISK PATIENT: EFFECTIVELY PREVENT PJI

THE CHALLENGE

Periprosthetic joint infection (PJI) is **one of the most severe complications** in arthroplasty.



6 out of 10 patients aged 65 and older present with **at least 2 risk factors** for infection.



THE SOLUTION

Crucial for the prevention of infection: Take into account both – the patient’s comorbidities and procedure related risk factors.

RISK FACTORS FOR INFECTION AND POTENTIAL PJI



OBESITY causes various physiological symptoms with negative effects on the patient situation, which may lead to serious postoperative complications:

- Obesity related metabolic syndrom
- Osteoarthritis
- Increased bacterial colonisation
- Prolonged wound healing and wound leakage



8.5 % of the world’s population is diabetic.

DIABETES is responsible for a weakening of the immune system due to:

- Elevated blood sugar levels
- Reduced blood supply within body tissue
- Prolonged wound healing and wound leakage



CARDIOVASCULAR DISEASE refers to a wide variety of heart and blood vessel disorders and includes:

- Atherosclerosis
- Deep vein thrombosis
- Coronary heart disease
- Cerebrovascular disease
- Peripheral vascular disease



IMPACT ON ORTHOPAEDIC PROCEDURES

Literature indicates an exponential increase in PJI risk with the body mass index (BMI). People with obesity are more likely to receive joint arthroplasty. Severely obese patients have a four times increased risk of PJI compared with non-obese patients.

The prevalence of diabetes is even higher in arthroplasty patients. Studies have demonstrated that the infection risk may double or even triple in people with poor glycaemic control. Uncontrolled diabetes is a known, independent risk factor for developing PJI.

Patients with cardiovascular diseases are generally more fragile. Chronic blood vessel damage and medications affecting coagulation and platelet functions make them more susceptible to infection.

OTHER IMPORTANT RISK FACTORS:



SOURCES

THE CHALLENGE

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RISK FACTORS FOR INFECTION AND POTENTIAL PJI

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