

## Procedure: **Elective Arthroplasty Urinary Screening**

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### Purpose

The purpose of this procedure is to identify the necessary steps to take after elective urinary screening.

### Objectives

The utility of routine preoperative urinary screening for all patients undergoing elective arthroplasty surgery has been reviewed and is no longer recommended. The new protocol for urinary screening is detailed below.

### Scope of Use

**This procedure is applicable to the Orthopaedic services.**

### Procedure

#### Rationale

Patients with culture positive urine tests but no clinical symptoms of urinary infection have “asymptomatic bacteriuria” (ASB).

- 1) ASB is present in up to 16% of the general population aged 65-80yrs old.
- 2) ASB is associated with a higher risk of prosthetic joint infection (PJI), much like increased BMI, longer operative durations etc, however ASB does not directly cause PJIs (ie it is a marker for higher risk but is not causative)
- 3) Antibiotic treatment of ASB does not decrease the risk of PJI
- 4) Urinary screening and antibiotic treatment in this group creates unnecessary costs, service requirements and the risk of antibiotic related adverse events without any discernible benefit

Put another way, ASB is common, identifies high risk patients but does not create any new opportunities to intervene to reduce PJI risk.

#### Protocol

All patients for elective arthroplasty are to be screened for symptoms of urinary infection (dysuria and urinary frequency).

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<b>Counties Manukau Health</b>			

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1. Symptomatic patients will undergo midstream urine testing, follow-up of test results and where urinary infection is confirmed (pyuria and a positive culture with a urinary pathogen), a short course of targeted antibiotic therapy.
2. Asymptomatic patients will NOT have urinary screening except in the following situations
  - a. A reliable history is unable to be taken regarding urinary symptoms (e.g. cognitive impairment)
  - b. The patient has a long term urinary catheter or regularly performs intermittent urinary catheterization

## Definitions/Description

Terms and abbreviations used in this document are described below:

Term/Abbreviation	Description
ASB	Asymptomatic bacteriuria
PJI	Prosthetic joint infection

## Associated Documents

Other documents relevant to this procedure are listed below:

<b>NZ Legislation / Standards</b>	None
<b>CM Health Documents</b>	Acute periprosthetic joint infection guideline Periprosthetic joint infection sampling guideline Surgical strategies in the management of periprosthetic joint infections - guideline
<b>Other related documents</b>	None

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