The efficacy of topical preparations in reducing the incidence of P. Acnes in total shoulder arthroplasty

ACTRN12618000261213

Status	RECRUITING
Phase	Phase 4
Sponsor	Orthopaedic Research Institute Queensland
Enrollment	105 participants

Plain Language Summary

This study is testing whether applying medicated skin preparations — benzoyl peroxide (BPO) alone, or benzoyl peroxide combined with clindamycin (BPO/C) — to the shoulder skin before total shoulder replacement surgery can reduce the level of a specific bacteria called Propionibacterium acnes. This bacteria naturally lives on shoulder skin and is a common cause of infection after shoulder joint replacement surgery. Infection after joint replacement is serious and often requires repeat surgery. Participants apply the skin preparation at home in the days before their scheduled operation.

You may be eligible if:
- You are aged 30 to 90 years
- You are male or female
- You require primary total shoulder replacement surgery for osteoarthritis or rotator cuff injuries

You may NOT be eligible if:
- You have an active infection
- Your BMI is above 40
- You are pregnant or planning to become pregnant during the study
- You have had a previous shoulder replacement, previous infection, previous surgery, or a shoulder injection in the past 6 months
- You have a documented allergy to the skin preparation solutions

Talk to your doctor about whether this trial might be right for you.

Key Eligibility Criteria

Inclusion (4)

- Male or Female
- Age 30-90
- a. This age range depicts the typical population that undergo total shoulder arthroplasty. Participants less than 30 years are not amenable to a total shoulder arthroplasty. Patients older than 90 years often have much higher co-morbidity and have an increased risk of complications and thus do not typically have total shoulder arthroplasty.
- Patients who require a primary TSA for treatment of OA or rotator cuff injuries

Exclusion (7)

- Patients with active infection
- Patients with BMI >40, (may impact on study)
- Patients who are pregnant or planning on becoming pregnant during the course of the study
- Patients unable to provide informed consent
- Patients who have undergone previous arthroplasty, have had previous infection, previous surgical procedures or injection into the shoulder within the previous 6 months prior to surgery.

... and 2 more (see full listing online)

Locations (1 total)

Mater Hospital Pimlico - Pimlico, QLD, Australia