Patients for risk reducing or therapeutic mastectomy for in situ or T1, T2 breast cancer and immediate breast reconstruction

Pre-operative eligibility assessed

Exclusion Criteria:
1. Psychiatric illness other than depression
2. Active smoker
3. Diabetes
4. Prior history of radiation or anticipated to require post-mastectomy radiation
5. BMI > 30
6. Breast cup > D or grade III ptosis

Inclusion Criteria:
1. Nipple sparing or skin sparing mastectomy
2. > Age 18
3. English speaking

Baseline assessment:
1. Clinical (cancer stage, BMI, breast size)
2. Patient reported (BREAST-Q, EQ-5D)
3. Standardized 5 view breast photographs

Informed consent Baseline Assessment

Pre-operative randomization

Nipple sparing or skin sparing mastectomy

Acellular Dermal Matrix Assisted 1-stage reconstruction

Tissue expander (TE) / implant 2-stage reconstruction

Peri-operative assessment Clinical: conversion from one stage to two stage, complications

2 week assessment BREAST-Q, complications

6 month assessment BREAST-Q, EQ-5D, complications

12 month assessment BREAST-Q, EQ-5D, complications, standardized 5-view breast photographs

Stratify by:
1) Site (Toronto, Vancouver, Calgary)
2) Laterality (Unilateral vs. Bilateral)