

Pathway for Breast Surgical Wounds

Factors associated with increased risk of wound infection

- Poorly controlled diabetes
- Prior surgery
- Radiation therapy or chemotherapy
- Conditions associated with hypoxia and/or poor tissue perfusion (e.g. anaemia, cardiac or respiratory disease, arterial or vascular disease, renal impairment, rheumatoid arthritis, shock)
- Immune system disorders (e.g. acquired immune deficiency syndrome, malignancy)
- Inappropriate antibiotic prophylaxis, particularly in acute wounding
- Protein-energy malnutrition
- Alcohol, smoking and drug abuse (IWII 2016).

NB:

- An aseptic non-touch technique should be used for changing and or removing a surgical wound dressing.
- Ensure the patients pain is monitored at each dressing intervention and offer appropriate.

Step 1: Patient Risk Assessment Establish the patients Surgical Site Infection (SSI) risk factors.

Low Risk	Medium Risk	High Risk
BMI ≤30 with no risk factors	BMI ≤40 with increased risk factors	BMI ≥40 with increased risk factors

Step 2: Wound Assessment Identify if the wound is healing by primary or secondary intention and conduct a holistic assessment of the patient to establish the dressing options as per the local formulary.

Primary Intention			Secondary Intention
Low Risk Apply a Film and pad island dressing e.g Post Opsite Visible or Mepilex Border Post Op Do not remove the dressing for at least 48 hours unless there is: <ul style="list-style-type: none"> • a bleed • excessive exudate • a haematoma. 	Medium Risk Apply a Film and pad island dressing e.g Post Opsite Visible or Mepilex Border Post Op Do not remove the dressing for at least 14 days unless there is: <ul style="list-style-type: none"> • a bleed • excessive exudate • a haematoma. 	High Risk Apply PICO single use NPWT following wound closure in theatre. <ul style="list-style-type: none"> • Once applied as per instructions for use, ensure the device is operating correctly • Monitor the dressing for the amount of "staining", leave in place until the staining has reached the port or for up to 7 or 14 days depending on the products (PIC07/PIC014), or whichever is sooner. 	<ul style="list-style-type: none"> • Undertake wound cleansing in accordance with the Wound Cleansing Policy and consider using Prontosan Debridement pad to support soft mechanical debridement. • Use an appropriate interactive dressing following the relevant formulary pathway (in accordance with the predominate tissue type within the wound bed).
<ul style="list-style-type: none"> • Use sterile saline for wound cleansing as required up to 48 hours after surgery. • Patient may have a "light shower" whilst the dressing is insitu. 			

Step 3: Document the holistic wound assessment using the relevant documentation and report accordingly.

Step 4: Review, reassess and onward referral

- All patients should be monitored for signs of Surgical Site Infection (SSI) and signs of sepsis until full wound closure.
- Should a SSI be suspected by the presence of cellulitis, either by a new infection or an infection caused by treatment failure
- Obtain relevant samples for culture and sensitivity testing
- Consult the senior clinician involved in the patient's care for regrading antibiotic advice.

Step 5: Patient information and discharge planning

- If a digital image has been captured this should be uploaded to the patient's clinical record and shared with the health care provider responsible for the ongoing care.
- Patients should be given the relevant written information which should include information regarding the:
 - Signs of infection
 - Hygiene (including hand hygiene)
 - Onward healthcare management
 - Who to contact should they have any concerns regarding their wound or its management.

Signs of Clinical Infection

- Erythema, swelling, localised pain or tenderness
- Temperature above 38oC
- Increased exudate levels
- Increased heat at the wound site
- Odour
- Positive organism.

If the named product on this pathway is not available a temporary second line product is available to use. This can be found within the main text of the Doncaster Wide Wound Care Formulary Document.