





RISK FACTORS

- Preterm infants less than 32 weeks
- Low birth weight
- Immobility
- Physiological aberrations such as edema, dehydration or hypotension
- Infants undergoing treatment with vasopressors, sedatives or therapeutic hypothermia.
- The use of probes, electrodes and medical devices, including endotracheal, nasogastric and orogastric tubes, and vascular access devices.
- The use of cardiorespiratory support devices, such as nasal continuous positive airwaves pressure (NCPAP); high frequency ventilation; or extracorporeal membrane oxygenation (ECMO)





Nutrition

- Premature infants have more nutritional requirements than term infants because of diminished nutrient stores at birth.
- Nutritional care for neonates should include adequate fluid, calories, amino acids, proteins, carbohydrates, fats, vitamins, and trace minerals.





High risk areas

- Pressure ulcers are more prevalent on the head, face, nasal region, lower limbs, and ears.
- Ulcers most often occur in infants who must remain immobile for prolonged periods of time, such as after surgery.
- Skin should be routinely monitored, particularly where the skin is susceptible to pressure from medical devices (nasal CPAP prongs and masks, vascular catheter hubs, central line interfaces, arm boards, tracheostomy tubes, and plaster cast edges).





Prevention

- Pressure injuries may occur as a result of inadequate monitoring or the inappropriate use of devices used for oxygen therapy.
- Examine skin at pressure points at least once per shift or more often.
- Rotate nasal prongs and mask for CPAP
- Apply alcohol-free skin protectants when needed.
- Use protective dressings, protective padding, water mattresses, air mattresses, gelled mattresses, and blanket covered sheepskin, when appropriate.





Cause of injury

- Mechanical pressure (adhesive removal, abrasion, friction, pressure sites)
- Thermal conditions (cooling blankets, warming devices)
- Chemical use (diaper dermatitis, cleansing solutions, extravasation injury)
- Congenital (epidermolysis bullosa)
- Infection
- Vascular compromise (hemangiomas, thromboembolism)





Assess the stage of injury or status of wound healing.

Consider the stage of healing, the amount of moisture, and presence of eschar or infection.



Obtain skin cultures, Gram stains, and potassium hydroxide preparations from the skin injury site where there are signs of infection, including, but not limited to ELBW, chronic surgical wounds, and immune compromise.



Clean the affected area with each dressing change using body-temperature, normal saline solution diluted 1:1 with sterile water or undiluted normal saline.

A 20-60-ml syringe with a blunt needle or intravenous catheter can be used to gently debride the area of exudate.



Apply antibacterial or antifungal ointment if indicated.

Medical grade honey with active Leptospermum or Manuka honey may be applied to wounds, especially wounds requiring debridement.

For infants who are not clinically stable or who have negative skin cultures, consider systemic treatment for ELBW.



Consider silicone-based adhesives, hydrocolloids, polyurethane films, hydrogels, or silver dressings for wounds or large denuded areas.

Avoid products that may strip the skin or create a periwound injury.