Nappy Rash Pathway





Primary and Community Care Settings

Clinical Assessment/Management tool for Children

History and Differential Diagnosis

Nappy rash is an acute inflammatory reaction of the skin in the nappy area, which Location, nature, and duration of rash. is most commonly caused by an irritant contact dermatitis.

Skin irritation and alteration of its acidic pH predisposes to colonization and possible secondary infection with Candida albicans and bacteria (most commonly Staphylococcus aureus and streptococci).

Non-infective Causes

- Allergic contact dermatitis
- Psoriasis
- Infantile seborrheic dermatitis
- Atopic eczema
- Zinc deficiency

Infective Causes

- Fungal skin infection-tinea corporis
- Perianal streptococcal dermatitis
- Eczema herpeticum or coxsackium
- Scabies

Predisposing factors

- Type of nappy
- Use of wipes
- Diarrhoea or antibiotics

Any treatment previously tried, such as use of barrier preparations

RED FLAGS AND HIGH RISK GROUPS

- Deterioration despite advice or treatment
- An alternative cause for the rash- see alternative conditions
- An immunocompromised patient and allergy
- Faltering growth

Risk factors for the development of nappy rash

- Type of nappy used more likely with reusable cotton nappies
- Skin care practices (e.g. how often the area is cleaned and the nappy changed) prolonged skin contact with urine and faeces predisposes to irritant contact dermatitis.
- Exposure to chemical irritants such as soaps, detergents, or alcohol-based baby
- Skin trauma for example, mechanical friction from skin contact with nappies or over-vigorous cleaning.
- Medication recent broad-spectrum antibiotics, in particular, predispose to candida colonization; other drugs that increase stool frequency may also increase the risk.
- Gestational age pre-term infants are at increased risk of developing nappy rash and secondary infection due to the reduced barrier function of immature skin.
- Diarrhoea including conditions associated with increased stool volume and pH. such as gastroenteritis, malabsorption, and liver conditions such as hepatitis (rare)

Examination

- Features typical of nappy rash
 - Erythema, scattered papules over surfaces in contact with nappy with sparing of the inguinal skin creases
 - Skin erosions, oedema, and ulceration
- Candidiasis: white pustules, satellite lesions

- Bacterial features: erosions, golden crusting
- Examine the rest of the skin on the body
- Skin swabs are not generally recommended for the management of nappy rash as the results are difficult to interpret.

Images available at: https://dermnetnz.org/topics/napkin-dermatitis-images/

Stage	Features	Management	Consider referra
Mild	Mild erythema, mild scaling and asymptomatic	 Barrier preparations to protect the skin, which are available to buy over-the-counter. Advise to apply thickly at each nappy change. Options include ProShield, Metanium[®] ointment, bepanthen and white soft paraffin BP ointment. 	There is uncerThe rash persicare.
Moderate	Moderate erythema, oedema and discomfort	 Topical hydrocortisone 1% cream BD until symptoms settle. Apply hydrocortisone after bathing and wait 30 minutes before applying the barrier preparation. Keep using barrier preparation with every nappy change 	There are recu
Severe	Skin erosions, oedema and ulceration	Use barrier preparation in addition to trimovate top BD for 1 week	
Candida Infection	Satellite lesions, white papules	 Prescribe Canesten HC or daktacort for 1-2 weeks until rash cleared and to continue for a further 1 week after the rash has cleared 	
Bacterial Infection	Erosions, golden crusting	Topical trimovate bd for 7-10 days. If no improvement- flucloxacillin for 7 days. (Clarithromycin for 7 days if penicillin allergy). Caution – very rare to have a bacterial infection and also oral antibiotics can worsen nappy rash due to diarrhoea	

ral to a paediatric dermatologist if:

- ertainty about the diagnosis.
- rsists despite optimal treatment in primary
- current, severe unexplained episodes.