

FACEBOOK LIVE

30 NOV

MAINTAINING SKIN INTEGRITY – FROM PREVENTION TO COMPLEX SKIN DISORDERS



PRESENTED BY:
JACKIE DARK &
JACQUI FLETCHER





HAVE A
QUESTION?

COMMENT ON
THE VIDEO

MAINTAINING SKIN INTEGRITY: FROM PREVENTION TO COMPLEX SKIN DISORDERS

Jacqui Fletcher
Independent Nurse Consultant

MAINTAINING INTACT SKIN

- What are we hoping to achieve?
- Prevention!
 - Pressure ulcers
 - Moisture-associated skin damage (MASD)
 - Medical adhesive-related skin injury (MARSI)
 - Skin tears
 - Leg ulcers
 - Diabetic foot ulcers (DFUs)



(All clinical images used in the first presentation are the property of Jacqui Fletcher)

DOES PREVENTION DIFFER?

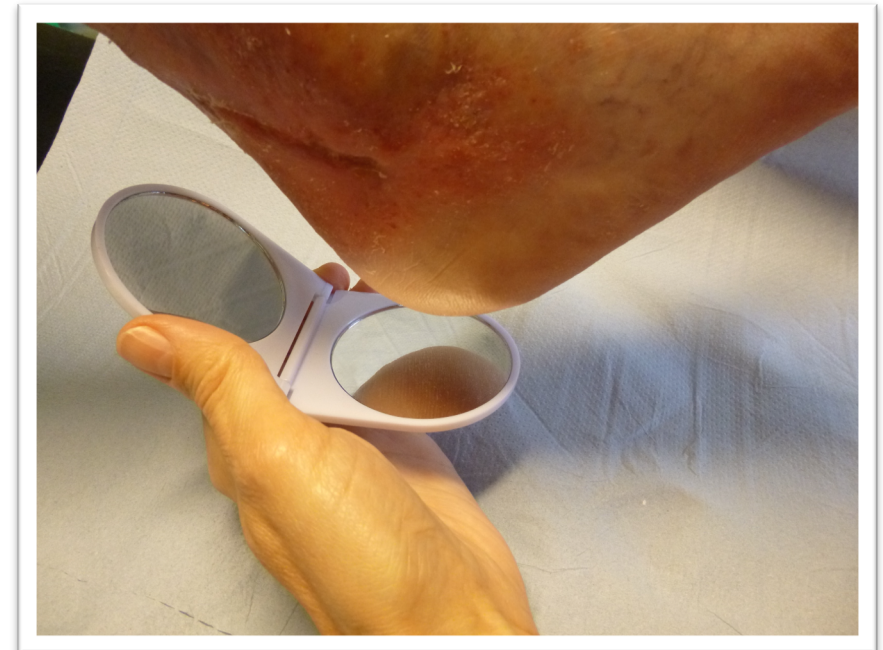
Principles of maintaining good skin integrity are all the same:

- Keep it clean
- Keep it dry
- Keep it well hydrated
- Protect it from external forces:
 - Pressure, shear, friction
 - Moisture
 - Trauma



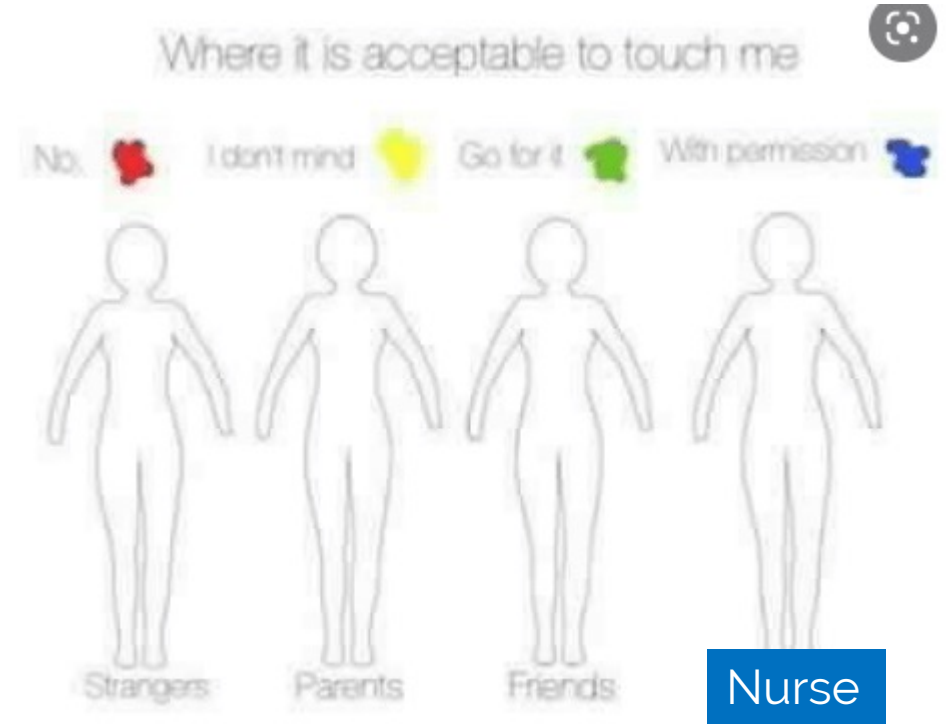
SKIN ASSESSMENT

- A crucial element of maintaining skin integrity
- Not just about what you see
- Skin inspection should include:
 - Visible skin changes
 - Textural skin changes
 - Temperature changes
 - Sensation change
 - Odour



THE IMPORTANCE OF TOUCH

- A two-way communication
- Not just about what you feel
- About what it means



VISUALS – MAY NOT BE ENOUGH

Skin tone
is not
'just a pressure
ulcer thing'

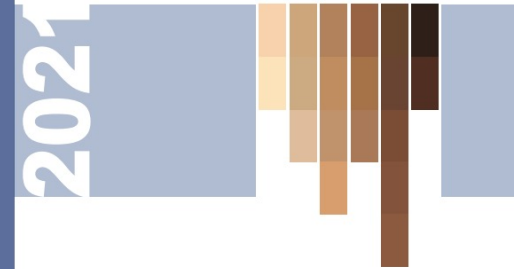
Look for
colour change
Compare like
with like



(Wounds UK, 2021)

WUK BPS

Best Practice Statement
Addressing skin tone bias in wound
care: assessing signs and symptoms
in people with dark skin tones



Assessment & diagnosis
Common wound types
and issue to consider
Product selection
Education and the future

Wounds UK

VISUALS

- Colour leads us to suspect many things
 - A violaceous margin?
 - A white edge?
 - Blue green exudate?



COLOUR CAN BE MISLEADING



Tendon or slough?



TEXTURE CHANGE

- What can texture indicate?
 - Hard:
 - Oedema
 - Inflammation — many causes
 - Callus
 - Soft:
 - Tissue death
 - Detachment from underlying structures



TEXTURE CHANGE *CONTINUED*

- Rough:
 - Dehydration
 - Skin scales
- Smooth:
 - all is well — or is it smoother because of oedema?
- Indication of underlying disease process



TEMPERATURE CHANGE

- Heat
 - Infection
 - Inflammation
 - Dermatitis
 - Environmental
 - Too many clothes



Hot, red and swollen



(Fletcher, 2019)

SENSATION CHANGE

- Loss or change in sensation, e.g. neuropathy
- Pain
- Itch — much underestimated
- Tingling



ODOUR

- Noticeable
- Indicative
- Pungent



INDICATION OF UNDERLYING DISEASE

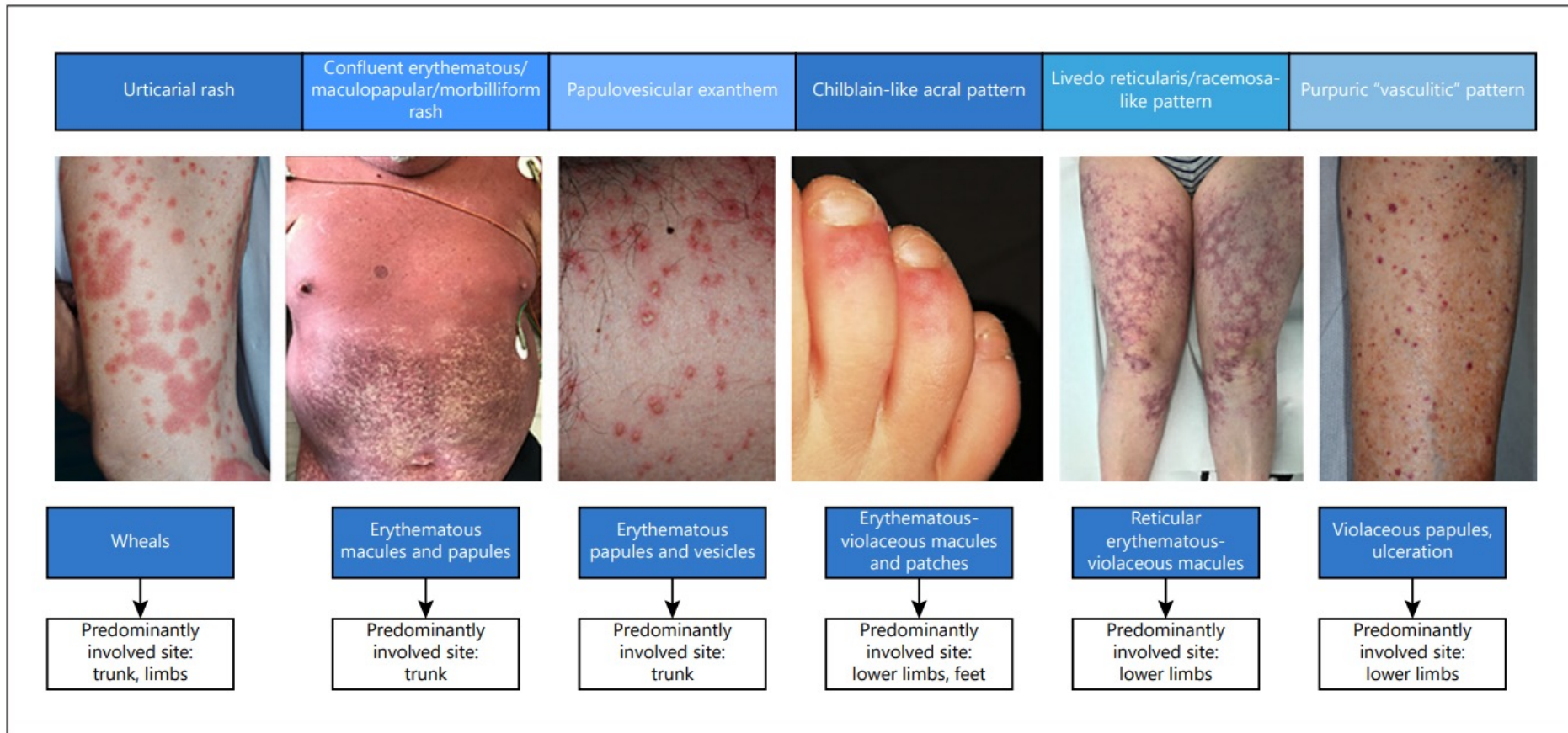


Fig. 1. Clinical features of COVID-19-associated cutaneous manifestations.

(Genovese et al, 2021)

SKIN ASSESSMENT

- Is a really fundamental aspect of care
- We all have skin
- It communicates with us and for us
- We need to treat it well



GOOD SKIN CARE

- Establish a baseline
- Determine the 'problem'
- Determine the cause
- Think about systemic care as well as topical approaches
- Think about psychological as well as physical care
- Standardise the approach:
 - Give step up and step down options

- The principles of maintaining good skin integrity are all the same
- Keep it clean
- Keep it dry
- Keep it well hydrated
- Protect it from external forces
 - Pressure, shear, friction
 - Moisture
 - Trauma

SKIN CARE PATHWAY

- When you would start
- What you use and how often
- When to step up or down
- When to refer on



SKIN CARE PATHWAY

Smith+Nephew

Helping you get **CLOSER TO ZERO**[®]
delay in wound healing
smith-nephew.com

+ Moisture-associated skin damage (MASD) pathway¹



WHAT TO DO WHEN THE OVERALL PICTURE DOESN'T QUITE ADD UP...

- Or looking for things that are out of the ordinary

AGING AND COMPLEX SKIN CONDITIONS

Jackie Dark

**Tissue Viability Clinical Nurse Specialist
Great Western NHS Hospitals Foundation Trust**

AGING SKIN

Intrinsic:

'Biological aging'
regardless of skin type

Additional:

Extrinsic factors:

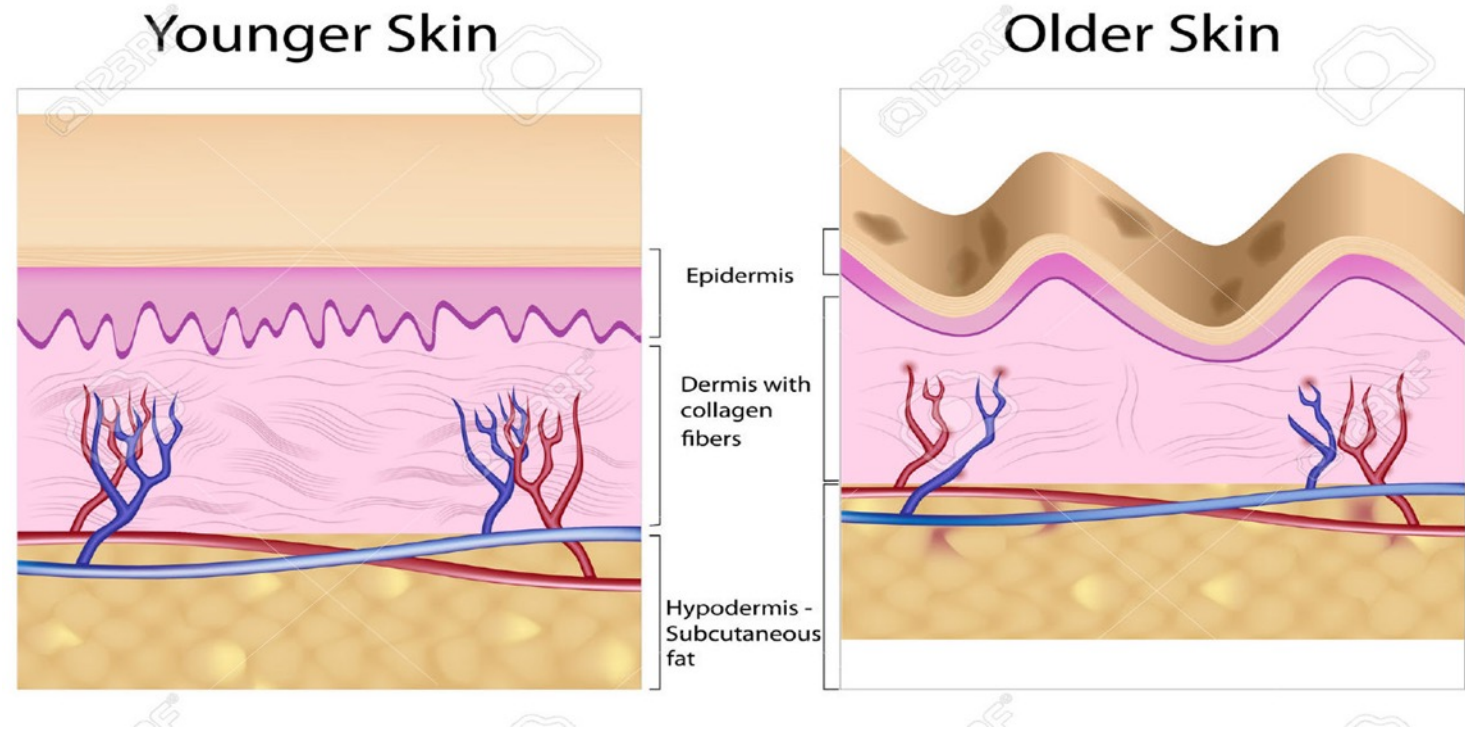
- Ultraviolet radiation
- Smoking
- Pollutants



(Ayer, 2018)

IMPACT OF AGING SKIN

- Epidermal and dermal thickness declines by 20%
- Basement membrane reduces contact between epidermal and dermal layers
- Collagen and elastic fibres reduce
- Keratinocytes — cannot repair DNA damage so well



(Image from: Skincare physicians.net)

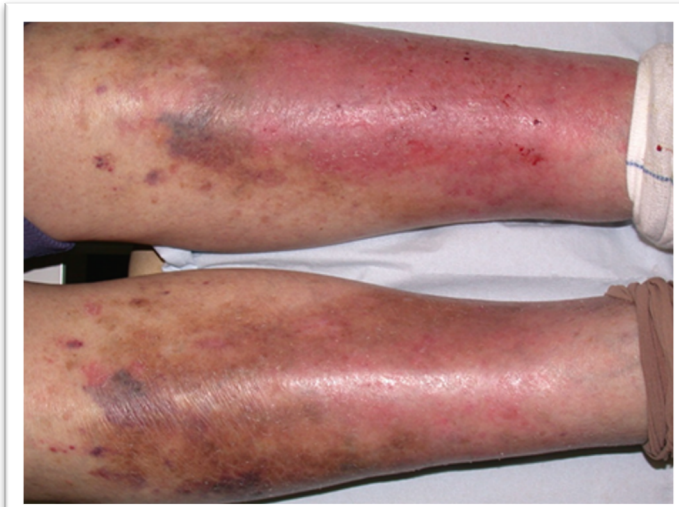
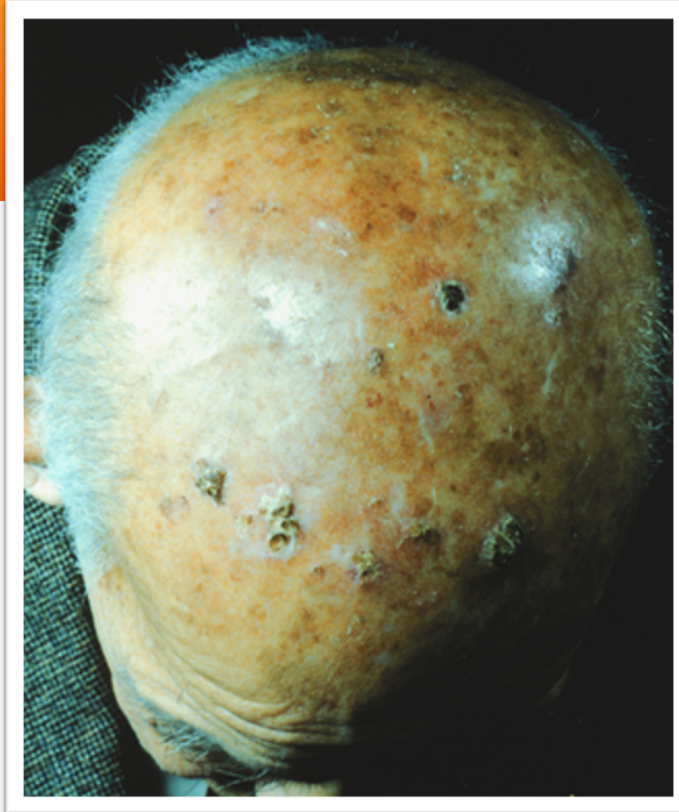
IMPACT OF AGING SKIN

- Decline in cell regeneration and renewal
- Fewer fat cells — reduced protection pressure
- Immune cells sparse and less mobile — increase in melanocytes
- Degeneration of connective tissue and elastic fibres — reduced firmness and elasticity
- Reduced sebaceous and sweat gland secretions



IMPACT OF AGING SKIN

- Fragility/skin tears/wounds — delayed healing
 - Atrophy/wrinkles/laxity (skin sagging)
 - Skin infections/infestations
 - Haematomas/bruising/pigmentation
 - Benign and malignant skin lesions
-
- Cellulitis
 - Bullous pemphigoid
 - Skin tears

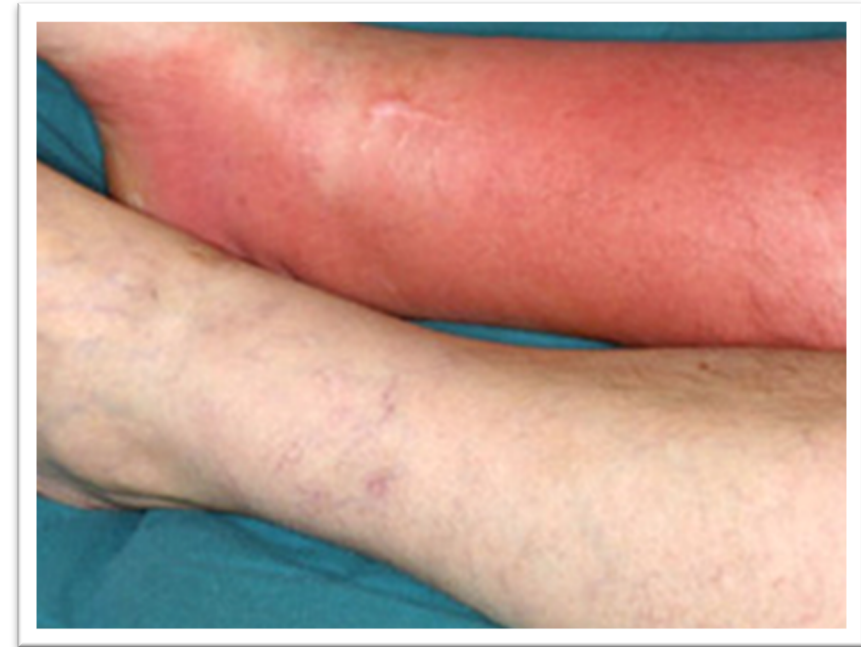


CELLULITIS



CELLULITIS – WHAT IS IT?

- Bacterial skin infection affecting the lower dermis and subcutaneous tissue
- Commonly caused by *Staphylococcus aureus* and *Streptococcus pyogenes*
- **Complications:** ulceration, endocarditis, osteomyelitis and sepsis
- Legs are the most common site, in the elderly
- Rare: bilateral occurrence



RED FLAG SYMPTOM REQUIRING IMMEDIATE ATTENTION

National Wound Care Strategy Programme (NWCSP) lower limb recommendations
(NWCSP, 2020)

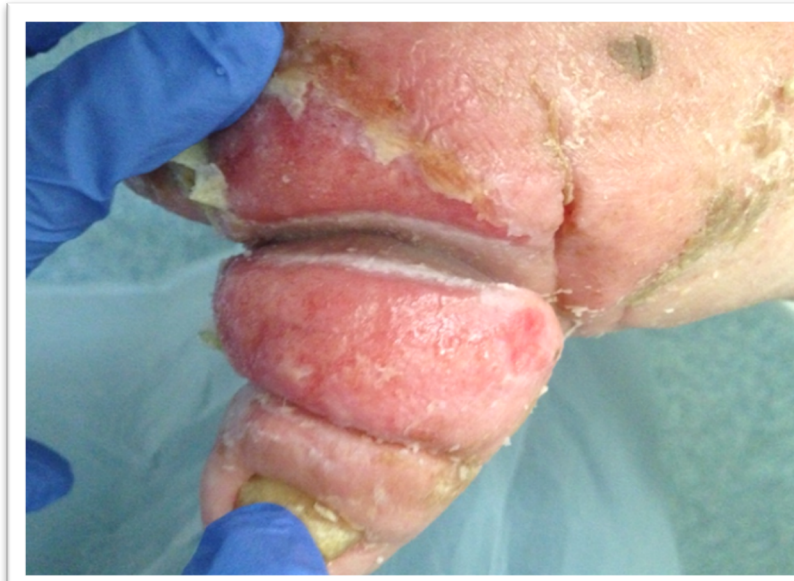
CELLULITIS

Risks:

- Previous episode(s) of cellulitis
- Immune suppression: disease/medication

Skin integrity changes:

- Fissuring of toes or heels: tinea pedis (athlete's foot) or cracked heels
- Varicose eczema, lymphoedema/chronic oedema
- Blisters/cuts/trauma/leg ulceration



CELLULITIS – CLINICAL SIGNS AND SYMPTOMS

Acute onset:

- Increasing redness — limb/skin (unilateral)/periwound skin
- Red/purple hue in darker skin tones
- Heat
- Swelling
- Pus/purulent exudate
- Pain (may be reduced for patients with neuropathy)
- Blisters/necrosis may develop
- Fever/malaise/nausea may precede skin changes
- Lymphangitis
- Raised erythrocyte sedimentation rate (ESR)/white blood count (WBC)/C-reactive protein (CRP)/wound swab



CELLULITIS MANAGEMENT – SHORT TERM

- Limb elevation
- Antibiotic therapy: consider severity of symptoms/infection site microbiological results/meticillin-resistant *Staphylococcus aureus* (MRSA) status, if known
- Give oral antibiotics first line if possible — review intravenously in 48 hours, consider switching to oral (National Institute for Health and Care Excellence [NICE], 2019)
- Refer to local AB guidelines/antibiotics formulary

🚩 **Diabetic foot ulcer (DFU): refer to DFU multidisciplinary team (MDT)**

🚩 **No compression if lower limb** (NWCSP, 2020)

CELLULITIS MANAGEMENT – LONG TERM

- Patients with two or more episodes of cellulitis within 12 months may benefit from prophylaxis antibiotic treatment:
 - Phenoxyethylpenicillin – 250mg twice a day, or
 - Erythromycin 250mg twice daily for penicillin allergy – review six monthly
- Treat coexisting skin conditions, i.e. eczema/fungal infections
- Manage and maintain chronic oedema
- Optimise comorbidities

DIFFERENTIAL DIAGNOSIS

Cellulitis



Lipodermatosclerosis

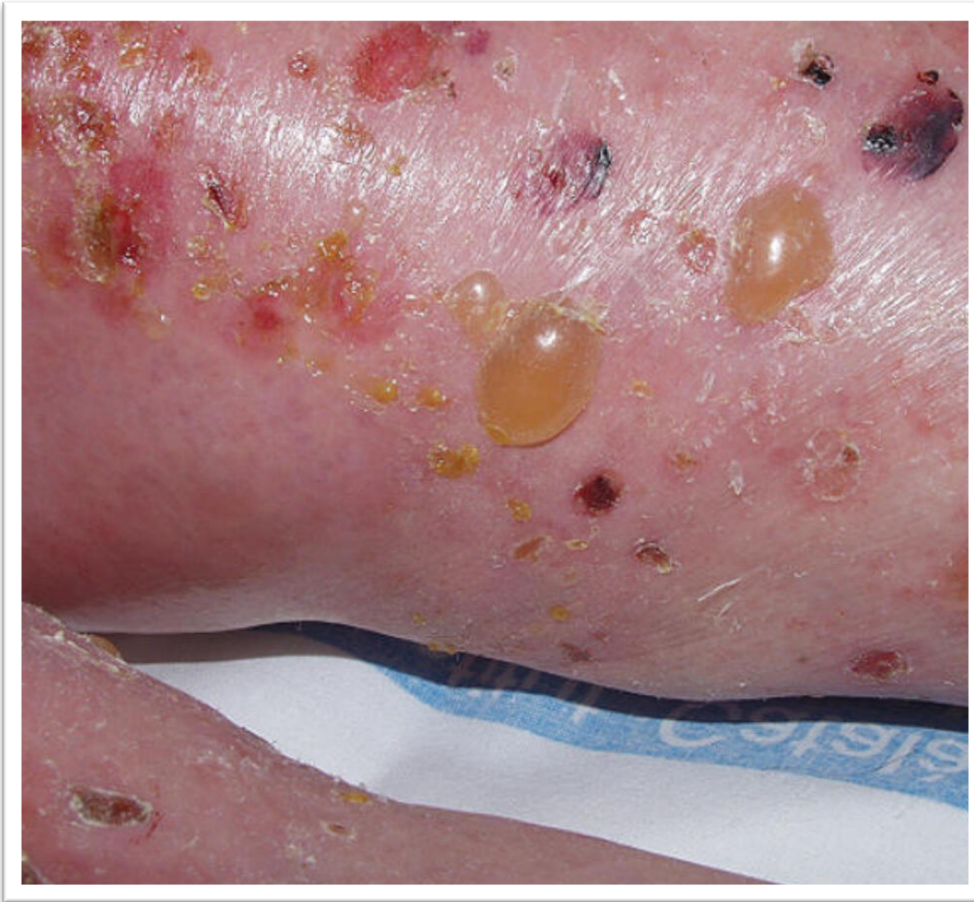


DIFFERENTIAL DIAGNOSIS

Cellulitis



Bullous pemphigoid



BULLOUS PEMPHIGOID

Bullous pemphigoid (bullous disorders)



BULLOUS PEMPHIGOID

- Most common autoimmune blistering disease in the West
- Incidence in the UK of 4.3 per 100,000
(Primary Care Dermatology Society, 2021)

- Onset 60 plus years, commonly 80

Causation:

- May be genetic disposition
- Skin infection/injury or drugs may be a trigger
- Several drugs have been implicated, including furosemide/betablockers



BULLOUS PEMPHIGOID – CLINICAL PICTURE

- Males and females are equally affected
- Generalised (more common) — trunk, arms and flexures
- Localised — limited to lower limbs
- Itch — common feature, often precedes rash by several months
- Even in cases of extensive blistering, patients otherwise appear well
- Mucosal blisters can occur mainly affecting the palate (mouth) — 25% of patients

BULLOUS PEMPHIGOID – CLINICAL PICTURE

Blisters — sub-epidermal



Large/tense

Fluid filled — clear or blood stained

Present for a few days — once ruptured → form crusted erosions

Heal without scarring — post inflammatory hyperpigmentation

BULLOUS PEMPHIGOID – DIAGNOSIS

Referral — dermatology

Diagnosis:

- Clinical history — signs and symptoms
- Skin biopsy and direct immunofluorescence
- Bloods: indirect immunofluorescence pemphigoid antibodies



BULLOUS PEMPHIGOID – MANAGEMENT

Over several years

Local:

- Emollients: 'very potent'/'potent' topical steroids <10%

Systemic:

- Systemic steroids
- Tetracycline antibiotics: isolation/jointly with steroids (steroid sparing), adjust dose until no blister formation
- Long-term: systemic immunosuppressive agents, e.g. methotrexate/azathioprine

NB: side-effects of drugs → cutaneous malignancy

SKIN TEARS



SKIN TEARS



SKIN TEARS – WHAT ARE THEY?

‘A skin tear is a traumatic wound caused by mechanical forces, including removal of adhesives. Severity may vary by depth (not extending through the subcutaneous layer.)’

International Skin Advisory Panel (ISTAP) (2018)
Best Practice Recommendations: The Prevention and Management of Skin Tears in Aged Skin



SKIN TEARS – RECOGNITION

Type one

No skin loss

Linear or flap tear which can be repositioned to cover the wound bed



Type two

Partial skin loss

Partial flap loss which cannot be repositioned to cover the wound bed



Type three

Total skin loss

Total flap loss exposing entire wound bed



SKIN TEAR MANAGEMENT

Recommended:

- Control bleeding
- Cleanse wound
- Reapproximate flap — moistened gauze

Wound management product:

- Non-adherent
- Pain-free and atraumatic removal
- Optimise healing
- Avoid aggressive adhesive dressings
- Lower limb will require assessment/support



SKIN TEAR MANAGEMENT

Not recommended — consensus:

- Skin closure strips
- Staples/sutures (full-thickness lacerations only)
- Glue (type 1 only — expensive and generates hospital activity, iodine-based dressings)



DISCUSSION



SKIN TEAR PATHWAY

5. DOCUMENT:

- Ensure all care plans, documentation, and templates are completed

6. REVIEW AND REASSESS:

- Monitor for any changes and observe for signs of infection, including increased pain, redness, exudate, heat, oedema and/or odour
- If the wound becomes infected, change the primary dressing to UrgoTul Silver for two weeks and review
- Consider systemic antibiotics only when indicated by clinical signs e.g. spreading erythema and/or if patient becomes systemically unwell
- Refer to the tissue viability team if flap deteriorates or becomes discoloured
- For any skin tears on the lower limb, refer to the Swindon Leg Ulcer Pathway to guide appropriate assessment and management, and escalate to the case load holder.

EXAMPLE:



Remove in the direction
of the arrow

RISKS

- Age >75 years of age
- Dry/fragile skin
- History of previous skin tears
- Impaired mobility and/or vision
- History of Falls
- Cognitive /sensory impairment e.g. Dementia
- Poor nutrition and hydration
- Other conditions (diabetes; chronic heart disease; renal failure; venous stasis etc.)
- Medication – Consider those which may directly affect the skin e.g. topical/oral steroids

PREVENTION

- Daily skin inspection
- Use appropriate emollients to cleanse and rehydrate dry/fragile skin (i.e. Dermal 500 lotion as soap substitute/cleanser and warm water for cleansing; Doublebase Dayleve Gel as a moisturiser, applied twice daily to all at-risk skin)
- Make use of protective clothing i.e. long sleeves, trousers etc.
- Avoid sharp fingernails/jewellery for both staff and residents
- Avoid use of adhesive dressings and tapes where possible
- Ensure sensible, comfortable and correct fitting footwear
- Provide a safe environment – adequate lighting, removing any obstacles/barriers, padding for equipment and furniture
- Avoid friction and shear on skin – use slide sheets, hoists and good manual handling techniques
- Encourage adequate nutrition and hydration
- Make appropriate referrals to specialist services for support with impaired sensory impairment/perception (i.e. diabetes, visual impairment)
- Discuss reason for skin tear prevention strategies with family/carers to improve understanding and engagement

*Skin Tear
Pathway,
Great Western
Hospitals NHS
Foundation
Trust, 2021*

SKIN TEARS – RISK ASSESSMENT

- Age — older than 75 years
- Dry, fragile skin
- History of previous skin tears
- Impaired mobility/vision
- History of falls
- Cognitive impairment, e.g. dementia
- Other conditions, e.g. diabetes
- Medication



SKIN TEARS – PREVENTION

- Daily skin inspection
- Emollients
- Protection of limbs — long sleeves or trousers
- Avoid sharp fingernails (in both patients and healthcare staff)
- Adequate light
- Safe environment to move around — good footwear
- Avoid friction/shear — good manual handling and slide sheets
- Adequate nutrition and hydration
- Refer if wound not progressing/infection

IN SUMMARY:

- Clinical signs observed may not just be a symptom of old age or mature skin, but may indicate underlying pathologies
- Treat your findings as per standard practice, monitor/re-evaluate in an appropriate timescale and escalate if no improvement, so that appropriate interventions can take place.

Contact details: Jacqueline.dark@nhs.net

SEND IN YOUR QUESTIONS FOR JACKIE & JACQUI



LIVE Q&A

SOLUTIONS TO SUPPORT GUIDELINES

Always aim for prevention, with effective dressings and skin care

For further information on the topics presented or the products below, please subscribe to Wound Club Online or contact us:

Contact us: www.smith-nephew.com/uk/contact-us/contact-us---hcp/

Visit: www.youtube.com/channel/UCJzOaUc1GgJxqpZBIKAarsw/featured





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