

COVID Skin Manifestations

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COI Disclosure

Relevant relationships to disclose:

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Learner Objectives



Participant will be able to:

describe one lesion frequently identified in the literature related to COVID.

compare and contrast lesions identified in the literature with those identified in practice.

identify the impact of COVID lesion management on WOC nursing.



Literature Review

- Printed literature
- Online sources
- Webinars

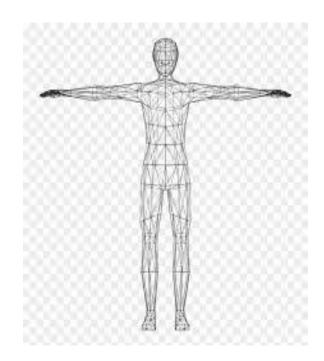






Lesions in General

- Hand or feet
- Chest or back
- **Limbs**
- *Facial or neck
- Prior to other symptoms
- Started simultaneously





Literature Review: Cutaneous Lesions

Chilblains-like lesions

Maculopapular eruptions

- Urticarial lesions
- Vesicular lesions
- Livedoid lesions
- Erythema multiform-like lesions (EM)





Chilblains-like Lesions

- COVID toes
- Superficial inflammatory vascular response
- Exposure to cold
- Dorsum of toes and hands
- Asymptomatic, pruritic or tender







Chilblains-like Lesions

- Dusky erythematous papules, nodules, plaques
- **❖** Bullae
- Last from 10-14 days
- Good prognosis



https://www.medscape.com/viewarticle/930955#vp_1



COVID Toes







https://www.aad.org/public/diseases/coronavirus/covid-toes



https://www.liebertpub.com/doi/10.1089/wound.2020.1309



https://www.newsweek.com/covid-toes-teenager-13-year-old-struggles-walk-nine-months-1610962



Chilblains-like Lesions: Treatment

- Protective and warming
- Topical corticosteroids
- Hydrocortisone creams
- Vasodilators
- Aspirin





Maculopapular Eruptions

- Viral
- Morbilliform rash (measles)
- Trunk and extremities
- Pruritic



https://www.aad.org/public/diseases/coronavirus/covid-toes



Maculopapular Eruptions: Treatment

- Supportive Care
- Corticosteroids
- Drug interaction





Urticarial Eruptions

- Nonspecific
- Viral infections
- Pruritic edematous wheals
- Disappear 24 hours
- Trunk, upper limbs





https://www.liebertpub.com/doi/10. 1089/wound.2020.1309



Urticarial Eruptions: Treatment

- Resolves with symptomatic treatments
- Antihistamines
- Steroids
- Drug interaction





Vesicular Lesions

- Direct toxic effect on keratinocytes
- Asymptomatic
- Present around day 3 of infection
- **❖**Trunk





https://www.liebertpub.com/doi/10.1089/wound.2020.1309



Vesicular Lesions: Treatment

- Supportive
- Resolve without treatment





Livedoid Lesions

- Usually noted in adults
- Rarely seen in the pediatric population
- Severe cases see necrosis, scabbing, skin sloughing
- Two types:
 - Livedo reticularis
 - Livedo racemose



https://www.liebertpub.com/doi/10.1089/wound.2020.1309



Livedoid Lesions: Livedo Reticularis

- Symmetrical, lace-like dusky patches
- Form rings with a pale center
- Along blood vessels





Livedoid Lesions: Livedo Racemose

- Irregular
- Asymmetrical dusky patches



https://www.liebertpub.com/doi/10.1089/wound.2020.1309



Livedoid Lesions: Treatment

- Conservative
- Intensive care support
- Can include hospitalization





Erythema Multiform-like Lesions (EM)

Hypersensitivity syndrome

Typical and atypical target lesions with a central

crust



https://www.jaad.org/article/S0190-9622(20)32190-3/fulltext



Erythema Multiform-like Lesions (EM)

- Treatment
- Supportive care
- Consider medications





Multisystem Inflammatory Syndrome

- Severe Condition
- MIS-C in the US
- Pediatric Inflammatory Multisystem Syndrome (PIMS) in Europe



Multisystem Inflammatory Syndrome

- Shock-like symptoms
- Gastrointestinal symptoms
- Myocarditis
- Multisystem failure





MIS-C/PIMS: Lesions

- Polymorphous eruptions
- Trunk and flexural areas
- Macules, papules



https://www.liebertpub.com/doi/10.1089/wound.2020.1309

- Acral erythema (hand-foot syndrome)
- Extremity swelling and desquamation
- Mucositis
- Fissured lips



MIS-C/PIMS: Treatment

- Supportive care
- Iontropic support
- **❖IV** immunoglobulins
- Aspirin
- Corticosteroids
- Anakinra
- Infliximab





Literature Review: Treatment Approaches

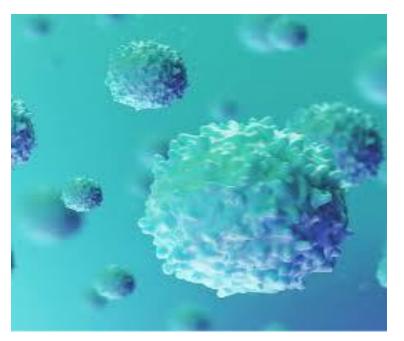
- Supportive care
- Antihistamines
- Steroids
- Spontaneous resolution





Literature Review: Treatment Approaches

- Other viral infections
- Drug reactions

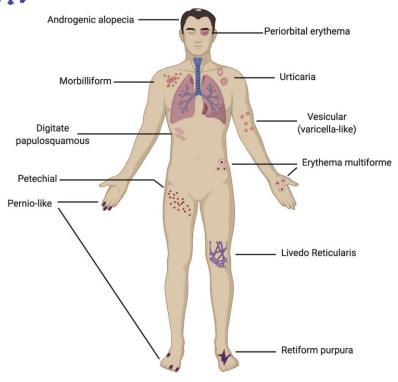


https://urgentmednetwork.com/viral-infection-bacterial-infection-difference/



Literature Review: Cutaneous Lesions







Practice Findings: Pressure and Mucosal

- Pressure injuries
- Mucosal injuries
- Device-related injures





UnityPoint Health-Peoria

UnityPoint Health Central Illinois Region

Methodist Medical Center of Illinois
Average daily census = 250

Proctor Hospital Average daily census = 65

Pekin Hospital Average daily census = 30





COVID Skin Manifestations due to Proning





Device Related Injuries



*Are they that simple?

Were all interventions in place?



Evolution of Deep Tissue Injury









Case 1: 45-year-old female





Visit 7/27/2021





Visit: 7/31/2020







Visit: 8/3/2021







Visit: 8/3/2021







Visit: 8/7/2021









Visit: 8/7/2021-Breakdown under breasts





Visit 8/7/2021

Cardiac arrest on 8/11

Expired





Case 2: Practice Findings







Case 3: Initial Consult



Positioning

Treatment



Evolution of Pressure Injury





No Longer Prone





Extubated: Continued Care



Full Thickness Injury

Multiple treatments



Case 4: Evolution of Injury





Case 5: Initial Injury





Case 6: Visit: 8/19/2021



Right Gluteal

Right Foot/Heel



Visit: 8/24/2021 Right Gluteal





Visit: 8/27/2021 Right Gluteal & Right Heel

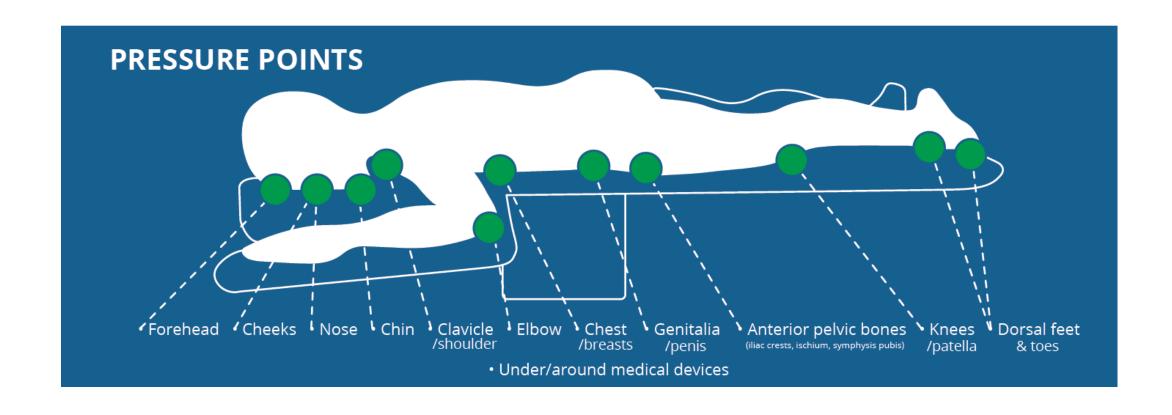








NPIAP Offloading Recommendations



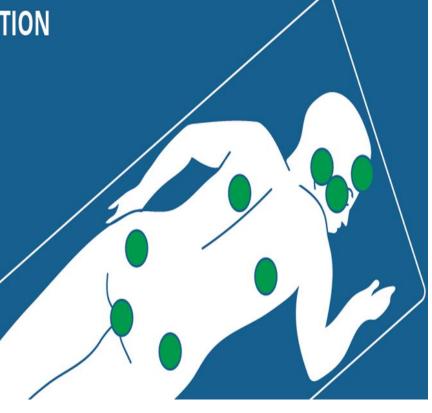


Impact WOC Nursing Practice

- Turn team
- System wide protocol
- Multidisciplinary team collaboration

SWIMMING/FREESTYLE POSITION

- Patients in standard prone position can be repositioned using the swimming position.
- Alternate the position of the arms and direction of the head, in a manner that is similar to that of a freestyle swimmer.
- Pressure points on the diagram correspond to the body surface facing the mattress.





Impact WOC Nursing Practice

Lack of resources

Dependency on bedside nurses

Balance struggles





Protocol: Non-intubated Proning

Goal was to match pulmonary perfusion to ventilation to improve oxygenation

Evidence supported



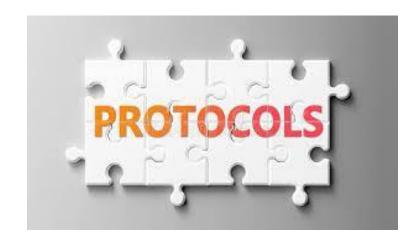


Protocol: Non-intubated Proning

Contraindications

Equipment

Protocol Components





Protocol: Intubated Proning

- Goal was to increase pulmonary perfusion
- Evidence supported
- Contraindications
- Protocol components





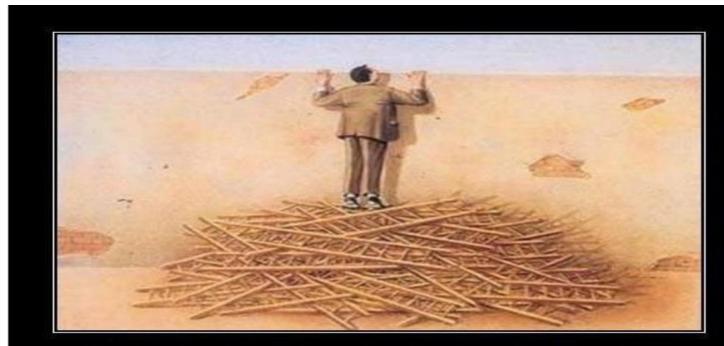
Practice Treatment Approach

- Basic wound healing principles
- Product knowledge
- *Resource utilization
- Restricted vendors





Who has felt this way?

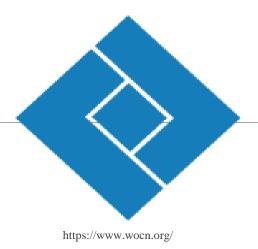


It doesn't matter how many resources you have if you don't know how to use them, they will never be enough



Resources: WOCN

- COVID-19 Community Forum
- COVID-19 Wound Photos Submission

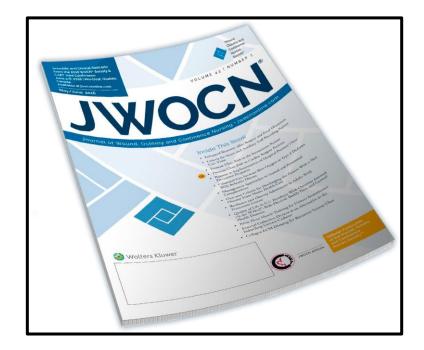


- Guidance for Maintaining Skin Health When Utilizing Protective Masks for Prolonged Time Intervals
- Recommendations for Wound Assessment & Photo Documentation in Isolation
- COVID-19 Skin Manifestations: A Guide for WOC Nursing Practice



Resources: JWOCN

- ❖July/August 2020
- September/October 2020
- November/December 2020





Additional Resources: WOCN

- Legislative & Administrative Actions in Response to COVID-19 Pandemic
- ANA COVID-19 Resource Center and Free Webinars
- COVID-19 Self-Recovery Package for Nurses Free for ANA Members
- NDNQI® Product Update Related to COVID-19



Additional Resources: WOCN

- United Ostomy Association of America
- Lippincott Nursing Center
- Wolters Kluwer COVID-19 Resources and Tools
- Industry Resources
- Homeless during the pandemic: what to do and how to help



Impact WOC Nursing

- Still evolving
- Multidisciplinary approach
- Product knowledge
- Increased staff education
- Documentation



https://www.whywoundcare.com/sites/default/files/2019-

01/WWC%2BProfessional%2BPractice%2BModule%2B1%2BWound%2BCare%2BNurse%2BEducation%2BFINAL.pdf



References

Available as a separate handout.



