

This is a guide only and does not replace clinical judgment

* The role of nutrition in people with burns requires specialist input and is not included in the scope of this brochure



References

Barber GA, et al. Effects and associations of nutrition in patients with venous leg ulcers: A systematic review. Journal of Advanced Nursing, 2018; 74:774-87.

Chen B, et al. Nutritional status as a predictor of the incidence of pressure injury in adults: A systematic review. Journal of Tissue Viability, 2023; 32:339-48.

Daher GS, et al. A systematic review of oral nutritional supplement and wound healing. Annals of Otology, Rhinology & Laryngology, 2022; 131:1358-68.

Haesler E, Carville K. Australian Standards for Wound Prevention and Management: Australian Health Research Alliance, Wounds Australia and WA Health Translation Network, 2023; http://www.woundsaustralia.org/

National Pressure Injury Advisory Panel, European Pressure Ulcer Advisory Panel, Pan Pacific Pressure Injury Alliance. Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guideline. NPIAP, EPUAP, PPPIA, 2019; https://internationalquideline.com/2019

Posthauer ME, et al. The role of nutrition for pressure ulcer management: National Pressure Ulcer Advisory Panel, European Pressure Ulcer Advisory Panel, and Pan Pacific Pressure Injury Alliance White Paper. Advances in Skin and Wound Care, 2015; 28:175-88.



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This Project was previously funded by the Australian Government Department of Health and Ageing under the Encouraging Better Practice in Aged Care (EBPAC) program.

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TEQSA Provider ID PRV12079 Australian University | CRICOS No.00213J

Nutrition and Wound Healing

Information for health professionals











Nutrition and Wound Healing

Good nutrition and hydration is essential for wound healing

- Older adults are more likely to be malnourished
- A wound increases energy and nutrient needs
- Dehydrated skin is less elastic, more fragile and more likely to break down

Assessment

- Screen and document nutrition status using a validated, age-appropriate tool for all people with, or at risk of, a wound
- Assess nutritional content of food and fluid intake
- Refer those found at risk of malnutrition to a dietician for further assessment
- · Risk factors for poor nutrition include:
 - poor dentition or difficulty swallowing
 - poor mobility
 - reduced appetite and taste changes
 - cognitive impairment, pain or depression
 - loss of independence





Signs of poor nutritional and/or hydration status:

- unintentional weight loss
- poor appetite
- nausea and vomiting
- dry, fragile skin
- · loss of skin integrity or a new wound
- deterioration of an existing wound

Management and Prevention

- Ensure adequate nutritional intake and hydration to address any deficits and promote wound healing
- Provide high calorie and protein supplements if nutrition needs are not met by usual diet
- Provide high protein, high calorie, arginine and micronutrient supplements for those with pressure injuries who are, or who are at risk of, deficiencies or malnourishment
- Provide extra fluids for this with, or at risk of, dehydration (e.g., fever, vomiting)



Ways to promote good nutrition and hydration

- Encourage a healthy, balanced diet including the five food groups: bread/grains; vegetables & fruit; dairy products; protein and fats
- Encourage recommended fluid intake, as appropriate to the person's condition
- Provide assistance with meals if needed and allow sufficient time
- Ensure good oral and dental care
- Position upright for eating and drinking
- Provide a pleasant mealtime environment

Which nutrients are important for wound healing?

Protein

Good sources include meat, fish, dairy products, legumes, nuts, seeds and grains

Vitamins and minerals

Studies have shown wound healing benefits from Vitamin C, Vitamin D, folic acid, zinc, and omega-3 supplements.

Good sources include fruit, vegetables, wholegrains and cereals, dairy products and protein foods.