

# Pediatric Thermal Burns

## EVIDENCE REPOSITORIES

Evidence repositories are collections of best available resources and evidence (clinical guidelines, peer reviewed literature, systematic reviews, etc.), collated by our knowledge synthesis team and content advisors. This evidence repository is not intended to be an exhaustive list of resources for a topic, but rather a curated list of current, evidence-based resources, based on expert consensus of relevance and usability for a general emergency department setting. We search databases (Cochrane Library, PubMed, TRIP Database) and web search engines (Google, Google Scholar) to locate evidence. Additionally, hospital websites are browsed for guidance documents, such as clinical practice guidelines (CPG) for healthcare professionals.

Every effort is made to identify resources that are open access (i.e. publicly available, free of charge, not requiring a subscription).

More information about the creation of our evidence repositories can be found at <https://pubmed.ncbi.nlm.nih.gov/28537762/>

## CONTENT TEAM

Thank you to the following content experts and Knowledge Synthesis team who led the development of this evidence repository.

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TREKK developed resources for healthcare providers and parents & families can be found [here](#).

## Clinical Guidelines

1. The Royal Children's Hospital Melbourne. [Burns - Acute management](#). 2020.
2. International Society of Burn Injuries. [ISBI practice guidelines for burn care](#). Burns. 2016;42(5):953-1021.

## Overviews

1. Ontario CritiCall. [Burns centre consultation guidelines](#). Critical Care Services Ontario. 2019.
2. University of British Columbia Division of Plastic Surgery. [Pediatric burn referrals](#). 2017.

## Systematic Reviews

1. Nímia HH, Carvalho VF, Isaac C, et al. [Comparative study of silver sulfadiazine with other materials for healing and infection prevention in burns: A systematic review and meta-analysis](#). Burns. 2019;45(2):282-92.
2. Strobel AM, Fey R. [Emergency care of pediatric burns](#). Emerg Med Clin North Am. 2018;36(2):441-58.
3. Stiles K. [Emergency management of burns: Part 1](#). Emerg Nurse. 2018;26(1):36-42.
4. Stiles K. [Emergency management of burns: Part 2](#). Emerg Nurse. 2018;26(2):36-41.
5. Sheridan RL. [Burn care for children](#). Pediatr Rev. 2018;39(6):273-86.
6. Romanowski KS, Palmieri TL. [Pediatric burn resuscitation: Past, present, and future](#). Burns Trauma. 2017;5:26.
7. Norman G, Christie J, Liu Z, et al. [Antiseptics for burns](#). Cochrane Database of Systematic Reviews. 2017(7).
8. Nherera LM, Trueman P, Roberts CD, et al. [A systematic review and meta-analysis of clinical outcomes associated with nanocrystalline silver use compared to alternative silver delivery systems in the management of superficial and deep partial thickness burns](#). Burns. 2017;43(5):939-48.
9. Palmieri TL. [Pediatric burn resuscitation](#). Crit Care Clin. 2016;32(4):547-59.
10. Haines E, Fairbrother H. [Optimizing emergency management to reduce morbidity and mortality in pediatric burn patients](#). Pediatr Emerg Med Pract. 2015;12(5):1-23; quiz 4-5.
11. Wasiak J, Cleland H, Campbell F, et al. [Dressings for superficial and partial thickness burns](#). Cochrane Database of Systematic Reviews. 2013(3).
12. Barajas-Nava LA, López-Alcalde J, Roqué i Figuls M, et al. [Antibiotic prophylaxis for preventing burn wound infection](#). Cochrane Database of Systematic Reviews. 2013(6).
13. Khundkar R, Malic C, Burge T. [Use of acticoat dressings in burns: What is the evidence?](#) Burns. 2010;36(6):751-8.
14. Latenser BA. [Critical care of the burn patient: The first 48 hours](#). Crit Care Med. 2009;37(10):2819-26.

## Key Studies

1. Ro HS, Shin JY, Sabbagh MD, et al. [Effectiveness of aspiration or deroofting for blister management in patients with burns: A prospective randomized controlled trial](#). Medicine (Baltimore). 2018;97(17):e0563.
2. Raymond SL, Zecevic A, Larson SD, et al. [Delayed healing associated with silver sulfadiazine use for partial thickness scald burns in children](#). Am Surg. 2018;84(6):836-40.

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3. Brown M, Dalziel SR, Herd E, et al. [A randomized controlled study of silver-based burns dressing in a pediatric emergency department.](#) J Burn Care Res. 2016;37(4):e340-7.
4. Goverman J, Bittner EA, Friedstat JS, et al. [Discrepancy in initial pediatric burn estimates and its impact on fluid resuscitation.](#) J Burn Care Res. 2015;36(5):574-9.
5. Gee Kee EL, Kimble RM, Cuttle L, et al. [Randomized controlled trial of three burns dressings for partial thickness burns in children.](#) Burns. 2015;41(5):946-55.

## Other Resources

1. Helman A, Fish J, Ivankovic M, et al. [Emergency medicine cases podcast: Burn and inhalation injuries: ED wound care, resuscitation and airway management.](#) Emergency Medicine Cases. 2019.
2. Victoria Adult Burns Service at the Alfred. [Paediatric burn assessment.](#) The Royal Children's Hospital Melbourne. 2012.