Evidence Table

Reference (include title, author, journal title, year of publication, volume and issue, pages)	Evidence level (I-VII)	Key findings, outcomes or recommendations
Bonham, A. (1996) Managing procedural pain in children with burns. Part 1: Assessment of pain in children. <i>International journal of trauma nursing</i> , 2 (3), 68-73.	VII	 Managing procedural pain is difficult because of different cognitive and physical development.
		 Assessment of a child's pain during a burns dressing may be difficult as children may not be able to express or identify where there pain is.
Bonham, A. (1996) Procedural pain in children with burns. Part 2: Nursing management of children in pain. International journal of trauma nursing, 2 (3), 74-77.	VII	 Pharmacological interventions are important in burns dressing changes in the paediatric population but they are not the only methods that can be successful.
		 Caring for children with burn wounds present special challenges because children are still developing physically and psychologically.
		Before a painful procedure the child should be prepared both physically and emotionally.
		 In paediatrics, family members should be involved in patient care to give them a sense of competence. They also offer the child a sense of security and comfort, helping to alleviate anxiety and enhance pain relief.
		 The parent and where possible the child should be educated about what causes burn pain, how it is relived and different coping strategies help to relieve pain.
		 Therapeutic play allows the child to use methods to explore the equipment and act out procedures.
		 Children should be given the opportunity to choose whether they want to participate in wound care and be allowed to make decisions about how the dressing is performed.
		 Documentation of pain assessment, effective pain control strategies and the child's response will help ensure that pain management is optimised.
Clifton, L., Chong, L. & Stewart, K. (2015). Identification of factors that predict outpatient utilisation of a plastic dressing clinic. A retrospective review of 287 paediatric burn cases. <i>Burns</i> , 41, 469-475.	V	 A retrospective review was performed of all paediatric burn cases to one hospital focusing on presentations to outpatient clinics and inpatient admission times
		 Multidisciplinary teams optimise patient care in burns patients. The use of dressing's clinic is an important part of the team.
		 Most simple burns can be managed at home and been seen in outpatient clinics therefore reducing hospital length of stay
		This study looked at only one hospital therefore it is hard to apply to further populations

Dhaliwal, K., Lopez, N. (2018). Hydrogel dressings and their application in burn wound care. British Journal of Community Nursing, 23, 24-27.	VI	 After a burn injury, skin loses its protective properties. Hydrogels have been shown to exhibit a number of beneficial properties favourable for burns patients.
Douglas. H. & Wood. F. (2017). Burns dressings. RACGP- Burns dressings. 46, 3.	VII	 This paper only reviews the literature. No study was actually performed. It is important to consider the size of a burn when a dressing is applied. Deep dermal/ full thickness burns require dressings to debride and lift the dead skin. Dressings prevent infection; promote wound healing, reducing pain.
Elena Stoica, A., Chircov, C. & Grumezescu, A. (2020). Hydrogel dressings for the treatment of burns wounds: an up to date overview. <i>Materials (Basel), June; 13 (12) 2853.</i>	VII	 This paper is a review of the literature. Hydrogels provide skin healing Antimicrobial dressings prevent the needs for drug treating infections in some instances
Holland, Carolyn & A. DiGiulio, Gregg & A. Gonzalez del Rey, Javier. (2012). Wound Care and the Pediatric Patient. 10.1016/B978-0-323-07418-6.00005-8.	VII	 Addressing the emotional needs of children and parents is as important as wound care. If the history is inconsistent with the wounds physical abuse of the child should be considered. Distraction can be effective at any age using such things as toys, cartoon characters, songs, dummies, blankets and colours. Children are often distracted well with visual imagery. Special attention should be paid to the immunisation status of children with burns. This can be achieved by simply asking parents. Often there are times where a child is unable to cope with the pain of the procedure therefore the use of pharmacological sedation may be required.
Kitney, P., Tam, R., Bennett, P., Buttigieg, D., Bramley, D. & Wang, W. (2017). Handover between anaesthetists and care unit nursing staff using isbar principles: a quality improvement study. Revue de l'AHSOC, 27		- A structured approach to communication between health care professionals containing introduction/identification, situation, background, assessment and request/recommendation (ISBAR).

Kee, E., Kimble, R., Cuttle, L., Khan, A. & Stockton, K. (2015) Randomized controlled trial of three burns dressings for partial thickness burns in children. <i>Burns, 41, 946-955.</i>		- Effective wound healing treatments are
		imperative in burns wound management of the paediatric patient.
		 There is a lack of evidence and trails comparing silver dressings to each other in the paediatric population.
		 The study compared the effects of three silver dressings on small to medium size acute partial thickness burns in children, focusing on re- epithelisation, pain and distress.
		 96 children were included in the analysis from one hospital.
		 The results of this study indicate that <10% TBSA partial thickness burns in children 0- 15years, dressed with Mepilex Ag re- epitheliaslised significantly faster than those with Acticoat. Children also experienced less pain on dressing removal and application.
		 Sample size of this study is small and only included one hospital population.
Langschmidt, J., Caine, P., Wearn, C., Bamford, A., Wilson, Y. &	VI	 Hydrotherapy is commonly used in burns management
Moieman, N. (2014). Hydrotherapy in burn care: A survey of hydrotherapy practices in the UK and Ireland and literature review. <i>Burns, 40,</i> 860-864.		There may be risks associated with the use of hydrotherapy including infection
		 A survey included 28 burns care providers using hydrotherapy was conducted. Only 11 used a defined criteria in the use of hydrotherapy with many variations to practice noticed
		The use of hydrotherapy should be done with enforced infection control procedures
		 Hydrotherapy for burns management is used nationwide however high variation in practice exists.
Liao, A., Andreson, D., Martin, H., Harvey, J. & Holland, A. (2013). The infection risk of plastic wrap as an acute burns dressing. <i>Burns</i> .	VI	 Plastic wrap has been recommended as an appropriate burns dressing. There are limited studies reporting the risk of infection with this dressing.
		 Ten plastic wrap samples were collected from an open roll on a burns unit. Plates were then imprinted with the plastic and incubated.
		 There was no significant growth on the plates after incubation indicating that the potential risk for plastic wrap to act as a fomite when used, as an acute burn, wound dressing is low.
		 Sample size for this study is small and there has been no control used in the study.

McGarry, S., Elliott, C., McDonald, A., Valentine, J., Wood, F. & Girdler, S. (2014). Paediatric burns: From the voice of the child. <i>Burns</i> , 40, 606-615.	VI	 This study uses a qualitative methodology to explore the psychological experiences of children with burns. The sample size of this study was small with only 12 surveys completed. This makes application to the larger population difficult. Burns are described as one of the most painful injuries a person can experience. In addition to the burn itself children may experience surgery, invasive procedures and are often left with permanent scarring. Burns not only affect a child's physical appearance but also psychologically, socially and functionally. Dressing changes are imperative to the physical outcome of burns however children fear not knowing about the dressing changes. Preparatory information about medical procedures reduces distress. Procedural preparation recommends age appropriate content, format and timing. Appropriate pain management is fundamental to minimising the onset of secondary complications such as anxiety. In addition to pharmacological methods of pain control non-
		 pharmacological methods of pain control, non-pharmacological methods of are just as important. Non-pharmacological techniques have been proven to reduce pain and anxiety in burns dressing changes. Non-pharmacological methods include; distraction, relaxation techniques, and
Selig, H., Lomenta, D., Giretzlehner, M., Jeschke, M., Upton, D. & Kamolz. (2012). The properties of an "ideal: burn wound dressing- What do we need in daily clinical practice? Results of a worldwide online survey among burn care specialists. <i>Burns</i> , <i>38</i> , 960-966.	VI	distraction, relaxation techniques, and preparation/education. - An online cross sectional survey was completed by burns care providers across the globe focusing on daily practice to develop an "ideal" burns wound dressing - Results from the study indicate that: - "Ideal" wound dressing features include a non-adhesive, absorbent and antimicrobial property containing. It should be easily removable and only require changes once per week. - Antimicrobial activity is the most essential property of a burns dressing due to burns incurring a high potential risk for infection. - Absorbency is also essential of a burns dressing. - This survey included a number of worldwide burns care providers therefore is easily applied to the larger population. The study however is based on individual's opinions.

References

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