Publications 2017

Fiona Wood Foundation

Publishing results of our work in the peer reviewed literature is essential. In 2017, the following research papers were published as a result of collaborations or primary studies conducted by the Fiona Wood Foundation research team.

With our understanding that every intervention from the time of injury influences the scar worn for life, we approach each clinical problem with a unique set of skills to reduce the suffering from burn injury. All the work is focused on solving a given clinical problem across the spectrum from first aid practices in the community, manipulation of scars at the cellular level, to understanding the barriers to improved function. The key strength of the group is the bringing together of basic science, population health research and clinical research and Translating Research into Practice.

1. Burns Dressings Helen Douglas, Fiona Wood, The Royal Australian College of General Practitioners 2017, AFP, Vol 46, No. 3 Mar 2017

2. The effectiveness of session rating of perceived exertion to monitor resistance training load in acute burns patients Grisbrook, Tiffany, Paul Gittings .Dale W.Edgar. Burns, 2017,43(1):169 -175

3. Patient opinion of scarring is multidimensional: An investigation of the POSAS with confirmatory factor analysis Helen DeJong, Michael Phillips, Dale Edgar, Fiona Wood. Burns 2017, 43 (1): 58-68.

4. Geographic distribution of burn in an Australian setting. Sean M. Randall, Fiona M. Wood, James H. Boyd, Janine M. Duke. Burns May 2017

5. Investigation of optical attenuation imaging using optical coherence tomography for monitoring of scars undergoing fractional laser treatment. Shaghayegh Es'haghian, Peijun Gong, Lixin Chin, Karl-Anton Harms, Alexandra Murray, Suzanne Rea, Brendan F Kennedy, Fiona M Wood, David Sampson and Robert McLaughlin. Journal of Biophotonics, 2017, 10 (4): 511-522

6. Identification of factors predicting scar outcome after burn injury in children: a prospective case-control study. Wallace HJ, Fear MW, Crowe MM, Martin LJ, Wood FM. Burns & Trauma. 2017; 5:19.

7. Identification of factors predicting scar outcome after burn in adults: A prospective case-control study. Wallace HJ, Fear MW, Crowe MM, Martin LJ, Wood FM. Burns. 2017. pii: S0305-4179

8. Fracture admissions after burns: A retrospective longitudinal study. .Duke JM, Randall SM, Fear MW, Boyd JH, Wood FM. Burns. 2017. pii: S0305-4179

9. Effects of Paediatric Burns on Gastrointestinal Diseases: A Population-Based Study. Boyd JH, Wood FM, Randall SM, Fear MW, Rea S, Duke JM. J Burn Care Res. 2017 38:125-133.

Publications 2017

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10. Burn Injury Leads to Increased Long-Term Susceptibility to Respiratory Infection in both Mouse Models and Population Studies. Fear VS, Boyd JH, Rea S, Wood FM, Duke JM, Fear MW. PLoS One. 2017 12:e0169302.

11. From genetics to epigenetics: new insights into keloid scarring. He Y, Deng Z, Alghamdi M, Lu L, Fear MW, He L. Cell Prolif. 2017 50.

12. Burns and long-term infectious disease morbidity: A population-based study. Duke JM, Randall SM, Wood FM, Boyd JH, Fear MW. Burns. 2017 43:273-281.

13. Burn leads to long-term elevated admissions to hospital for gastrointestinal disease in a West Australian population-based study. Stevenson AW, Randall SM, Boyd JH, Wood FM, Fear MW, Duke JM. Burns. 2017 43:665-673. 5.

14. Longitudinal recovery following distal radial fractures managed with volar plate fixation: a systematic review with meta-analysis. Susie Stinton, Dale Edgar, Petra Graham, Liam MacLachlan, Niamh Maloney, Evangelos Pappas. The Bone and Joint Journal. Accepted to print Aug 2017

15. A technique to monitor interventions for swelling in minor burns: A pilot study. Pippa Kenworthy, Tiffany L. Grisbrook, Michael Phillips, P Gittings, Fiona M. Wood, William Gibson & Dale W. Edgar. Burns. In press

16. Monitoring wound healing in minor burns – a novel approach. Pippa Kenworthy, Michael Phillips, Tiffany Grisbrook, William Gibson, Fiona M Wood, Dale W Edgar. Burns. In press.

17. Whole arm water displacement volumetry is a reliable and sensitive measure: A pilot to assess acute post-burn volume change. DW Edgar, Briffa, JG Cole, FM Wood. JBCR. In press.

18. Addressing the barriers to bioimpedance spectroscopy use in major burns: alternate electrode placement. Kenworthy P, Grisbrook TL, Phillips P, Gibson W, Wood FM, Edgar DW. Burns. Accepted to print.

19. Increased burn healing time is associated with higher Vancouver Scar Scale score. Finlay V, Burrows S, Burmaz M, Yawary M, Lee J, Edgar DW, Wood FM. Scars, Burns and Healing, Vol 3 (1): 1-10.

20. Heterotopic Ossification in adults following a burn injury: A phenomenological analysis. Foster N, Kornhaber R, McGarry S, Wood FM, Edgar DW. Burns. In press.

21. The development and impact of Heterotopic ossification in burns: a review of four decades of research. Kornhaber R, Edgar DW, Foster N, Haik J, Visentin D, Hati M. Scars, Burns and Healing. Vol 3 (2): 1 – 20.

22. Addressing the barriers to bioimpedance spectroscopy use in major burns: alternate electrode placement.

Pippa Kenworthy, Tiffany L Grisbrook, Michael Phillips, William Gibson, Fiona M Wood & Dale W Edgar. Burns.

23. Posttraumatic growth after burn injury in adults: An integrative literature review. Lisa Martin, Michelle Byrnes, Sarah McGarry, Suzanne Rea, Fiona Wood. Burns. 2017;43(3):459-70.

24. Quality of life and posttraumatic growth after adult burn: A prospective, longitudinal study. Martin L, Byrnes M, Bulsara M, McGarry S, Rea S, Wood F. Burns. 2017;43(7):1400-10.

25. Social challenges of visible scarring after severe burn: A qualitative analysis. Martin L, Byrnes M, McGarry S, Rea S, Wood F. Burns. 2017; 43(1):76-83. (2).

26. Resistance training for rehabilitation after burn injury: A systematic literature review & meta-analysis. Gittings PM, Grisbrook TL, Edgar DW, Wood FM, Wand BM, O'Connell NE. 2017 (in press)

27. Response to Letter to the Editor. De Jong H, Phillips M, Edgar DW, Wood FM. B u r n s, 4 3 (2 0 1 7): 1 3 5 6 – 1 3 7 6

28. Long term cardiovascular impacts after burn and non-burn trauma: a comparative population-based study. Duke JM, Randall SM, Fear MW, O Halloran E, Boyd JH, Rea S, Wood FM. Burns epub accepted 8 August 2017

29. Post-injury diabetes mellitus morbidity in burn and non-burn trauma patients: A population-based retrospective cohort study. Duke JM, Randall SM, Fear MW, O Halloran E, Boyd JH, Rea S, Wood FM. Burns 2017 (in press accepted 25 Oct 2017).

30. Perioperative Temperature Management During Burn Care. Owen K, Litton E, Raby E, Wood F. Journal of burn care & research: official publication of the American Burn Association. 2017.

31. Modified Vancourver Scar Scale score is linked with quality of life after burn. Finlay V, Burrows S, Kendell R, Berghuber A, Chong V, Tan J, Edgar DW, Wood F. Burns. June 2017. Vol.43(4), pp.741-746.

32. Polymeric Nonfibre Scaffold for the Delivery of a Transforming Growth Factor **β Inhibitor**. Agarwal V, Wood F, Fear M, Iyer K. Australian Journal of Chemistry. 2016. Vol.70(3), p.280-285.

33. Up-**regulation of α1**-adrenoceptors in burn and keloid scars. Drummond PD, Dawson LF, Wood FM, Fear MW. Burns.

34. The Western Australia Population-based Burn Injury Project: Using record linkage to examine long-term effects of burn injury. Duke J, Boyd J, Randell S, Fear M, Wood F. International Journal for Population Data Science. 2017. Vol.1(1).

35. Bioimpedance spectroscopy: A technique to monitor interventions for swelling in minor burns. Kenworthy P, Grisbrook TL, Phillips M, Gittings P, Wood FM, Gibson W, Edgar DW. Burns.

36. Real-time Bioimpedance of Antifibrotic Drug Action in Primary Human Cells. Parvis M, Toshniwal P, Viola HM, Hool LC, Fear MW, Wood FM, Gaus K, Iyer KS, Gooding JJ.

Publications 2017

Thank you to all the individuals, corporates, Trusts and Foundations that have supported the Fiona Wood Foundation in 2017. Your financial contribution directly impacts our ability to continue our research. Anyone's life can change in an instant from a burn injury and we strive to continually improve outcomes from burn injury for all.

The Fiona Wood Foundation Board, staff, clinicians and researchers extend to each of you, our heartfelt appreciation of your support. Without you, we would not be able to continue on our journey of scarless healing – in mind and body.

www.fionawoodfoundation.com