

REFERENCES

- [1] C. Hansson, "Wounds and wound therapy 2010," Sahlgrenska University Hospital, 2010.
- [2] S. P. W. Kumarasinghe, "Wound care in Sri Lanka: our patients deserve better care," *Ceylon Medical Journal*, vol. 49, no. 1, pp. 4–6, 2004.
- [3] P. Katulanda, M. H. R. Sheriff, and D. R. Matthews, "The diabetes epidemic in Sri Lanka – a growing problem," *Ceylon Medical Journal*, vol. 51, no. 1, pp. 26–28, 2006.
- [4] D. G. Armstrong and L. A. Lavery, "Negative pressure wound therapy after partial diabetic foot amputation: a multicentre, randomised controlled trial," *The Lancet*, vol. 366, no. 9498, pp. 1704–1710, Nov. 2005.
- [5] J. T. Thompson and M. W. Marks, "Negative Pressure Wound Therapy," *Clinics in Plastic Surgery*, vol. 34, no. 4, pp. 673–684, Oct. 2007.
- [6] K. T. D. Kahaduwa, T. D. Gooneratne, and S. M. Wijeyaratne, "The Sri Lankan prototype of a negative pressure wound therapy device," *Ceylon Medical Journal*, vol. 56, no. 1, pp. 31–32, Mar. 2011.
- [7] D. Zurovcik, "Development of a Simplified Negative Pressure Wound Device," Massachusetts Institute of Technology, Massachusetts, M.Sc. Thesis, Jun. 2007.
- [8] S. M. Jones, P. E. Banwell, and P. G. Shakespeare, "Advances in wound healing: topical negative pressure therapy," *Postgrad Med J*, vol. 81, no. 956, pp. 353–358, Sep. 2004.
- [9] J. D. N. A. Jayakodi, W. P. D. Welgama, and L. A. U. S. Liyanaarachchi, "Development of a device to deliver intermittent negative and positive pressure to a wound and its surrounding in order to accelerate healing," University of Moratuwa, Department of Mechanical Engineering, Moratuwa, Final year undergraduate report, Apr. 2009.
- [10] P. Driscoll, "Wound Management, 2007-2016: Established and Emerging Products, Technologies and Markets in the U.S., Europ, Japan and Rest of World," MedMarket Diligence, LLC, #S245, 2007.
- [11] C. L. Hess, M. A. Howard, and C. E. Attinger, "A Review of Mechanical Adjuncts in Wound Healing: Hydrotherapy, Ultrasound, Negative Pressure

Therapy, Hyperbaric Oxygen, and Electrostimulation," *Annals of Plastic Surgery*, vol. 51, no. 2, pp. 210–218, Aug. 2003.

- [12] N. Sullivan, D. L. Snyder, K. Tipton, U. Uhl, and K. M. Schoelles, "Negative Pressure Wound Therapy Devices," Department of Health and Human Services USA, 540 Gaither Road Rockville, Maryland 20850, WNDT1108, Nov. 2009.
- [13] C. Hansson, *Sahlgrenska University Hospital*. 2010.
- [14] M. Kirby, "Negative pressure wound therapy," *The British Journal of Diabetes and Vascular Disease*, vol. 7, no. 5, pp. 230–234, Oct. 2007.
- [15] M. S. Miller, M. Ortegon, C. McDaniel, and T. Serena, "Negative pressure wound therapy: An option for hard to heal wounds," *Nursing Homes*, vol. 55, no. 1, pp. 56–61, Jan. 2006.
- [16] S. Gupta, B. bates-Jensen, A. Gabriel, A. Holloway, J. Niezgoda, and D. Weir, "Differentiating negative pressure wound thrapy device: An illustrative case series," *Wounds*, vol. 19, no. 1, pp. 1–9, Jan. 2007.
- [17] H. Albinali, "Traditional Medicine among Gulf Arabs Part II," *Heart Views*, vol. 5, no. 2, pp. 74–85, Aug. 2004.
- [18] W. Meyer and V. Schmieden, *Bier's Hyperemic Treatment*, 2nd ed. London: W B Saunders Company, 1909.
- [19] J. Pierre, S. Jeffery, and J. Clark, "Using negative pressure wound therapy to manage severe military trauma wounds," *Wounds UK*, vol. 5, no. 3, pp. 56–64, 2009.
- [20] D. R. Levinson, "Comparison of Prices for Negative Pressure Wound Therapy Pumps," Department of Health and Human Services USA, USA, OEI-02-07-00660, Mar. 2009.
- [21] D. ZUROVCIK, "Modifiable occlusive skin dressing," WO2013110008 A1, 25-Jul-2013.
- [22] C. L. Radl, J. R. Boehringer, J. Karpowicz, and J. L. Timm, "Device for treating a wound," US20080294147 A1, 27-Nov-2008.
- [23] M. J. Morykwas, L. C. Argenta, E. I. Shelton-Brown, and W. McGuirt, "Vacuum-assisted closure: a new method for wound control and treatment: animal studies and basic foundation," *Ann Plast Surg*, vol. 38, no. 6, pp. 553–562, Jun. 1997.

- [24] I. M. Gutierrez and G. Gollin, "Negative pressure wound therapy for children with an open abdomen," *Langenbecks Arch Surg*, vol. 397, no. 8, pp. 1353–1357, Dec. 2012.
- [25] J. R. R. Jr and R. Petrosenko, "Wound treatment apparatus," US7678090 B2, 16-Mar-2010.
- [26] H. Niu, H. Tian, C. Chang, D. Li, and Y. Fan, "Development of a Device for Negative Pressure Wound Therapy Based on ARM9 Embedded System," in *(iCBBE) 2011 5th International Conference on Bioinformatics and Biomedical Engineering*, 2011, pp. 1–4.
- [27] "Low Flow Control Valves | Electronic Flow Control," *Proportion Air*. [Online]. Available: <http://proportionair.com/electronic-flow-controls/flow-control/>. [Accessed: 03-Dec-2011].
- [28] G. Thomson, "Considerations in vacuum pump suitability," *World Pumps*, vol. 2002, no. 430, pp. 30–33, Jul. 2002.
- [29] T. Wilmshurst, *Designing Embedded Systems with PIC Microcontrollers, Second Edition: Principles and Applications*, 2 edition. Amsterdam; Boston; London: Newnes, 2005.
- [30] M. A. Mazidi, R. D. McKinlay, and D. Causey, *PIC Microcontroller and Embedded Systems: Using Assembly and C for PIC18*. Pearson Prentice Hall, 2008.
- [31] H. Birke-Sorensen, M. Malmso, P. Rome, D. Hudson, E. Krug, L. Berg, A. Bruhin, C. Caravaggi, M. Chariker, M. Depoorter, C. Dowsett, R. Dunn, F. Duteille, F. Ferreira, J. M. F. Martinez, G. Grudzien, S. Ichioka, R. Ingemansson, S. Jeffery, C. Lee, S. Vig, N. Runkel, R. Martin, and J. Smith, "Evidence-based recommendations for negative pressure wound therapy: Treatment variables (pressure levels, wound filler and contact layer) – Steps towards an international consensus," *Journal of Plastic, Reconstructive & Aesthetic Surgery*, vol. 64, Supplement 1, pp. S1–S16, Sep. 2011.
- [32] G. Noble-Bell and A. Forbes, "A systematic review of the effectiveness of negative pressure wound therapy in the management of diabetes foot ulcers," *International Wound Journal*, vol. 5, no. 2, pp. 233–42, 2008.
- [33] E. Y. Hartwell, C. J. Fryer, S. J. Collinson, and M. D. Phillips, "Composition, apparatus, kit and method and uses thereof," WO2013076450 A1, 30-May-2013.

- [34] D. Schimelman, "Miniature diaphragm pumps meet the performance challenge," *World Pumps*, vol. 2006, no. 477, pp. 44–46, Jun. 2006.
- [35] D. Schimelman, "Tiny pumps drive portable medical devices," *World Pumps*, vol. 2008, no. 503, pp. 22–25, Aug. 2008.
- [36] K. K. Desai, E. Hahn, B. Pulikkotill, and E. Lee, "Negative Pressure Wound Therapy: An Algorithm," *Clinics in Plastic Surgery*, vol. 39, no. 3, pp. 311–324, Jul. 2012.
- [37] D. Vijayan, J. Thomas, and S. Rajalingam, "Non-Invasive Blood Pressure Monitoring Using Labview Interfacing," *International Journal of Applied Engineering Research*, vol. 8, no. 19, p. 2013, 2013.