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Vacuum sealing drainage with instillation in treatment of necrotizing soft-tissue infection: A retrospective analysis

Necrotising soft-tissue infection is a rare but life-threatening infectious disease with high morbidity and mortality. It is typically caused by toxin-producing bacteria and characterized clinically by a very rapid progression of the disease with significant local tissue destruction. In this study, we intend to explore effective wound management to control the invasive infection and to decrease the high mortality. This retrospective analysis explored the wound management and mortality in patients with necrotising soft-tissue infection. Extensive debridement, vacuum sealing drainage (VSD) with normal saline instillation combined with broad-spectrum or sensitive antibiotics, and supportive therapies were used. All 17 patients included in the analysis survived. The microbiology of 11 patients was found to be polymicrobial. Of the patients, 14 were discharged with completely healed wounds and three were transferred to a local hospital after the systemic and invasive wound infection was controlled. Our experiences revealed the outstanding effect of VSD with instillation in removing the debris of necrotising tissue on the wound bed, in the continual and complete drainage of wound exudates, and in prompting wound healing.

Recent Publications

1. Duan H, He Y, Zhang H, Wang F, Chen S, Wang J. Vacuum sealing drainage with instillation in the treatment of necrotising soft-tissue infection: a retrospective analysis. J Wound Care, 2020, 29(9):510-517.
2. Duan H, Bai H. Is Mitochondrial Oxidative Stress the Key Contributor to Diaphragm Atrophy and Dysfunction in Critically Ill Patients? Crit Care Res Pract. 2020, 2020:8672939.
3. Bai HL, Duan HJ, Chen C, Liu LY, Wu YS, Han SF, Wang XT. Effects of Janus kinase/signal transduction and activator of transcription 3 pathway inhibitor in skeletal muscle function in severely burned rats and its mechanism. Zhonghua Shao Shang Za Zhi. 2021, 37(3):271-278.

Speaker Biography

Hongjie Duan has completed his MD at the age of 25 years from the Fourth Military Medical University and PhD at the age of 39 years from PLA Medical College, China. He is the director of Burn Institute, The Fourth Medical Center of PLA General Hospital. Currently, working as physician and researcher in the Fourth Medical Center. He has over 40 publications that have been cited over 100 times, and he has been serving as an editorial board member of Chinese Journal of Burns.

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