

Evaluations of the effects of a new Water-Jel system on specific bacterial and yeast strains in laboratory conditions.

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Introduction:

In three previous studies the Water Jel system was found to protect burn wounds from microbial contamination, to have excellent analgesic and cooling effects when used as a first-aid dressing and to be bactericidal to 15 micro organisms including yeasts tested from the Ostrava Burn Unit.

Now new Water Jel system has been introduced without povidone iodine. An extensive bacteriological laboratory evaluation of the new Water Jel system showed quite clearly its excellent antimicrobial and antimycotic properties for 13 of the 15 strains of micro organisms tested, the only exceptions being *Clostridium difficile* and partially *Streptococcus faecalis*.

In a preliminary study, the new Water Jel system was used for 24-49 h in 74 burned patients with superficial partial and deep partial skin thickness burns.

Results:

In 89 per cent of them were no signs of infection on their burn wound after 48 h.

Conclusion:

The new Water Jel system was well tolerated and no allergic reactions appeared.