

Cumulative Initial Experience Using Hyaluronate-Iodine Complex in Wound Healing

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Background:

Hyaluronate-iodine complex, which is composed of sodium hyaluronate, potassium iodide, and iodine, is a wound healing agent currently approved for use in the European Union. Combining these agents has the potential to facilitate wound healing through synergy. Recent studies from a community teaching center in the United States have shown excellent results.

Methods:

Fourteen patients with indolent wounds were recruited from the hospital, outpatient center, and the wound healing center. Hyaluronate-iodine soaked gauze was applied to wounds either daily or every other day. Wounds were measured weekly and progression was documented with digital photography. All wounds were debrided as needed using standard techniques.

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Patient 1

	Type of wound	Length of Treatment
	Chronic venous insufficiency wound of lower extremity	Complete healing in 62 weeks
Patient 1	Acute venous insufficiency wound of lower extremity	Complete healing in 33 weeks
Patient 2	Chronic left groin wound	Complete healing in 18 weeks
Patient 3	Chronic non-healing traumatic pre-tibial wound	Complete healing in 50 weeks
	Chronic venous insufficiency wound	Complete healing in 20 weeks
Patient 4	Traumatic lower extremity wound	Complete healing in 18 weeks
	Burn to thigh	Complete healing in 7 weeks
Patient 5	Burn to thigh	Complete healing in 7 weeks
	Diabetic foot ulcer	Still undergoing treatment (10 weeks)
Patient 6	Diabetic foot ulcer	Still undergoing treatment (10 weeks)
Patient 7	Perianal fistula with abscess, excision of anorectal fistula	Complete healing in 4.5 weeks
Patient 8	Surgical abdominal wound	Complete healing in 3.5 weeks
	Surgical abdominal wound	Still undergoing treatment (11.5 weeks)
Patient 9	Surgical abdominal wound	Still undergoing treatment (11.5 weeks)
Patient 10	Surgical abdominal wound	Discontinued after 22 weeks
Patient 11	Chronic diabetic foot ulcer, osteomyelitis, MRSA	Still undergoing treatment (7 weeks)
Patient 12	Venous insufficiency wound lower extremity	Still undergoing treatment (6 weeks)
Patient 13	Diabetic foot ulcer	Still undergoing treatment (4 weeks)
Patient 14	Diabetic leg ulcer	Complete healing in 5 weeks





Patient 7

Results:

Fourteen patients (nineteen wounds) have been entered into our prospective study. Nine patients (twelve wounds) have completed treatment. Of the twelve wounds, eleven have gone on to complete healing with a mean healing time of 21 \pm 20.82 weeks. Treatment was discontinued in one patient due to burning/painful application of ointment after twenty-two weeks with 20.2% wound area remaining to heal. Five patients (seven wounds) are still undergoing treatment satisfactorily.

Conclusion:

Hyaluronate-iodine is effective in healing all types of wounds studied. Enhanced and accelerated wound healing was noted in both chronic and acute wounds. The anti-adhesive and antimicrobial properties of hyaluronate-iodine are believed to create a desirable environment conducive to natural wound healing. Further studies are being conducted to determine the efficacy of wound healing with hyaluronate-iodine complex as compared to other wound healing agents.





Patient 14