

July 2002

Colleagues draw conclusion on occlusive silicone dressing

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Denver — A new silicone wound dressing patients who use it heal faster than those provides a room with a view — and who have had conventional wound care.

That's the finding of a study on the new silicone occlusive dressing (Silon-TSR; Bio Med Sciences, Inc. Bethlehem, Pa.). The ing erythema and a welcome convenience for physicians who want to keep close tabs on postoperative skin, said Richard Ort, data suggest it is more effective at mitigat-M.D., a co-author of the study. (Arch Dermatol. 2001;137;1317-21). Other coauthors included R. Sonia Batra, M.D., Kenneth Arndt, M.D., and Jeffrey Dover, M.D., F.R.C.P.C.

ical professor of dermatology, University of through it, and you can keep an eye on dressings have become quite a source of "It's like putting a piece of saran wrap on the face. It's clear, you can see right wound healing," said Dr. Ort, assistant clin-Colorado School of Medicine. Postlaser debate, he added.

wound technique, it is easy to spot signs of ing for the open-wound alternative. Some for infection, by trapping bacteria under There are compelling reasons for optphysicians feel that use of closed dressings after laser resurfacing can increase the risk trophobic," he said. With the openthe dressing. Moreover, occlusive dressings can make patients feel a bit "clausinfection and it is inexpensive.





Dr. Ort

In the study, postsurgical healing times were compared after combination carbon dioxide and erbium:YAG full-face laser skin esurfacing. The patients' wounds were treated one of two ways: with traditional open wound care (consisting of frequent ment) or with the silicone occlusive dresssoaks and application of Aquaphor ointing applied for three days postoperatively.

comes, had no financial interest in the new Dr. Ort, who helped evaluate the outproduct, he said.

open-wound care. The prospective part of sisted of 35 patients with closed dressings compared with 35 control subjects with the study compared 27 patients using The retrospective part of the study conclosed dressings with 27 historical controls using the open-wound technique.

ing comfort were assessed across the Erythema, crusting, swelling, pain, purpura, long-term complications, and dressgroups, he said.

Application of the silicone occlusive tion of erythema. Erythema resolved in dressing decreased the severity and duraapproximately half the time in the closed

dressing group. The duration of swelling cone-dressing group. Crusting in the closed there was a dramatic decrease in redness, dressing group was seen only in areas that ed to slip off the chin, he observed). Even when crusting did occur, it was of substansignificantly diminished, as well. "Overall, were uncovered (the silicone dressing tendcrusting, and swelling," he said of the sili. tially shorter duration.

There was no difference in the incidence of infection between the open-wound and closed-dressing groups,

There was no difference in final outcome, he said. Long-term results and complication rates remain unchanged.

However, patients liked the silicone dressing. They made comments about progress in the mirror. And when they had discomfort, it tended to be mild. Was this because they could see the swelling abate and the redness fade under the dressing? Dr. Ort does not discount that possibility, but his observations on the Dr. Ort hopes the study will help settle the investigators found that healing was more rapid among patients who had occlusive dressings and crusting was seen only in how much they enjoyed seeing their topic would be only anecdotal, he said. open-versus-closed debate: He and his councovered areas.

Dr. Ort and his colleagues concluded that occlusive silicone dressing application decreases immediate postoperative morand duration of erythema, and decreases bidity and significantly reduces the severity

the duration of swelling and crusting.

There was no greater rate of infection in added. He cautioned that patients treated with an occlusive dressing should probably the occlusive-dressing groups, Dr. Ort be treated with an oral antibiotic to avoid

One study on wound care following CO2 aser resurfacing found that Duoderm worked well for postsurfacing healing study found that closed dressings worked Other studies, using other laser techniques, have reached the same conclusion. Derm Surg. 2000;26(4):341-344). Another well after laser resurfacing, but overall satsfaction was highest with perforated mesh and polymer dressings (Derm Surg. 2000; 26(6):562-571).

ings with open-wound care have attained similar results: Healing is quicker and patients are happier. The findings have been replicated so many times that occlusive dressings have become the standard of tions that have compared occlusive dress-In fact, a number of European publicacare in some countries outside the United As those studies suggest, the quest for the best occlusive dressings are underway.

Whether the use of occlusive dressings as Dr. Ort suggested, short-term postoperreally is better remains open to debate. Just ative morbidity is significantly decreased by closed dressings. However, long-term outsures of a less-than-optimal result - look comes - in terms of scarring or other meaabout the same either way. CST