# EFFICIENT AND ECONOMICAL SELF-ADAPTIVE DRESSING TECHNOLOGY for Management of Ulcers with Malodorous Heavy Drainage 

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## OBJECTIVIE



METMODS
We ertorspectively examined data erecrds of patients
with large, hearili/copiously draining venuus insufficiennd diesing between November 1,2012 and
wound
February 28,2013 .

- A single investigator applied similar treatment protocol to all uleers:
$\Rightarrow$ Wound was debitided of al neccoric tissue, and culture-specifict topica ambibiotics were applied
when apporoprite when appropiatie.

| S Self.adapitive wound care dressing $110 \times 10$ or |
| :--- |
| $15 \times 15 \mathrm{~m}$ |

 more than one dressing was reauired.d.es sings were placed side by side and taped with cotton
tape. Iressing $w$ were securred with a kerlix wrap lape. Dessings werd secured wifh kentixw wap
ortape, leassic candage, and seffrodnerent wraa for compression.
4 Derssings were changed daily initially, with a goal
of reducing d tessing chane frecuency to two to of reducing dressing change frequency to two to
three times per week. three imes per week. $\Rightarrow \begin{aligned} & \text { Patients wer evali } \\ & \text { or reer two weeks. }\end{aligned}$
$\Rightarrow$ Dressing leakage, dressing strike-through, contro, peri-wound maceration, dressing change
freauency and debidement frequency and debididement fequencry were noted
$\square$ Data was de-dentit
sheee for analysis.


MULTIPLE COPIOUSLY DRAINING LEG ULCERS
59-year-old morbidly obese male with copiously draining venous sufficiency ulcers


CASE 3: LARGE, CHRONIC VENOUS INSUFFICIENCY ULCERS 57 -year-old male presented with bilateral heavily draining venous insufficiency ulcers that have been present for 20 years.

B. Day 0.

sion, ulcers remain heaxily craining, foul smelling and painful (77/10).

C. Day 14



D. Day 18.


E. 6 weeks.

Patient has been out of town for three weeks. during which time the Wound was treated with wetto-dry yaure and non-adherent dressings
Wound-relested pain and odoror, as well as s slough have eretured, as

F. 10 Weeks.
 and de-epetitelializizg tovard clesurure. Odor it is s not detectectable end

## RESULTS品

$\square 6$ patients with 15 ulcers were evaluated

- All patients were male; average age was 65 years old (range: 57 to
$\square$ Use of the self-adaptive wound dressing in heavily or copiously draining wounds reduced dressing change frequency from an average of once per
17.5 hours to twice weekly

Average wound-relate

- Average wound-related pain prior to start of self-adaptive dressings was
$7 / 10$. In all patients, pain during use of selfwas reduced to $0 / 10$ in an anverage time of 14 days.
- All wounds had foul odor prior to start of self-adaptive wound dressings, Within an average of 7 to 10 days of self-adaptive dressing use, foul odo was not present in any of the wounds.
QThe dressings effectively controlled drainage throughout treatment and
did not express fluid under compression.
$\square$ When applied with proper overlap onto intact skin dessins securely in place with no leakage at each dressing change.
$\square$ Study patients reported high satisfaction with dressing based on com attributes, incluaing non-traumatic dressing cha lated pain and low dressing change frequenc
$\square$ Previously macerated wound edges were resolved in 7 to 10 days and
■ Self-adaptive wound dressings decreased inflammation and wound
dimensions inall cases.


## CONCLUSIONS:

- Use of self-adaptive dressing technology may aid in transitioning heavily draining wounds stalled in the inflammatory phase of wound healing toward a positive wound healing trajectory.
- Self-adaptive dressings are effective in absorbing and retaining copiously draining wound
$\square$ Use of self-adaptive dressing reduces pain and malodor, provides effective control of wound drainage and therefore significantly improves quality of life for patients.
- Reduction in dressing change frequency achieved with this dressing results in reduced materials usage, nursing labor costs, and patient morbidity.
- In our opinion, the new self-adaptive dressing satisfies the vast majority of patient and wound requirements and can be wound care in large, copiously draining wounds.


## REFERENCES:

World Union of Wunnd Healing Societeies (WWWHS) (2007) Principiles of fest Practice: W





with self -adapive ressings in chronic extemity wound. Popsere presested dal

