MAKING TREATMENT OF A COMPLEX LYMPHEDEMA PATIENT FEASIBLE IN A COMMUNITY SETTING

¹Harriet Span - Boersma, Tissue viability nurse, ¹A.J. Oosting, Dermatologist, ³A van den Wijngaard¹, RN, Wound and Compression Specialist, ¹Spaarne Hospital, 2134TM Hoofddorp, The Netherlands, ³Lohmann & Rauscher, Almere, The Netherlands

Introduction:

In The Netherlands 350.000 patients suffer from lymphedema. Ambulant patients typically attend lymphedema clinics, which may be time consuming and burdensome. The aim was to improve treatment outcome enabling treatment in the community in this complex lymphedema patient.

Material and methods:

Case ascertainment was used for the patient with massive lymphedema of both her legs. The 80 years old patient had diabetes and neuropathy. Her legs were covered with hyperkeratoses and copiously exuding lesions containing pseudomonas. She had pressure damage on her foot due to ill-fitting orthopedic shoes. For compression ^ashort stretch cohesive bandages with ^btubular terry underpadding was used. The toes were included in the compression bandage using a ^cfixation bandage. She received manual lymph drainage, twice weekly. Skin lesions were treated with a polyhexanide containing ^dbio-cellulose dressing covered with a ^esuperabsorbent pad. Depending on exudate production dressing changes took place on average 2 x/weekly in the first 2 weeks of treatment. Skin and wound debridement was conducted with a ^fmonofilament debridement product and PHMB, a moisturizer was used to treat the dry skin condition.



Fig 1: Day 0: Toe bandages caused friction damage.



Fig 2: Day 0: Edema, hyperkeratosis, scaling and fissures in both legs.



Fig 3 and 4: Day 0: Orthopedic shoes are too tight causing pressure damage. Copious foul smelling exudate and critical colonization with Pseudomonas.



Fig 5: Day 0: Leakage all the way through to the compression bandages



Fig 6: Day 1: After debridement and correct compression bandaging there is no leakage.















Fig 7: Right foot after one debridement session

Fig 8: After one debridement session, lesions are visible

Fig 9 - 12: The pressure damage (indicated with the arrows) is caused by the ill-fitting orthopedic shoes. Until the edema went down she was advised not to wear them.

Results :

Fig 13:

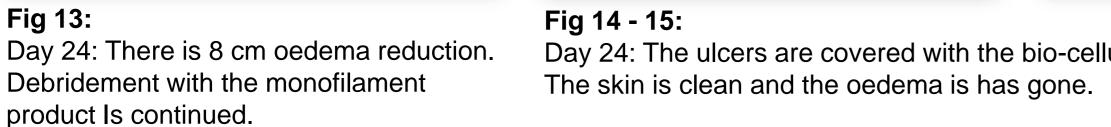
Oedema had reduced after one week and the ulcers had closed at day 42 of treatment. She was then fitted new shoes and ready to wear compression stockings for maintenance therapy. To prevent recurrence, concordance with maintenance therapy is key.

Conclusion :

Wound healing and reduction of edema was achieved in a patient-friendly and effective manner within 2,5 months of treatment, improving her quality of life significantly.







Day 24: The ulcers are covered with the bio-cellulose dressing + PHMB.



Fig 16 - 18: Day 24: The forefoot is padded relieving pressure over the ulcer. The compression bandage is adapted to the patients' needs.











Fig 20 - 22: Day 42: End result, the edema is further controlled with compression and the dry skin is treated with a moisturizer to prevent recurrence.

Fig 19: Day 24: Dedicated treatment working together with a multidisciplinary team at the wound expert center.

References:

1. Haemerle G, Duelli H, Abel M, Strohal R. Br J Nurs. **2011** Mar 24-Apr 14;20(6):S35-6, S38, S40-2.

2. S. Bahr, N. Mustafi, P. Hättig, A. Piatkowski, G. Mosti, K. Reimann, M. Abel, V. Dini, J. Restelli, Z. Babadagi-Hardt,

3. F. Abbritti, T. Eberlein, T. Wild, K. Bandl, M. Schmitz.J Wound Care. **2011** May ;20 (5):250-6 21647070

^aRaucodur[®] Kohäsive, ^bTG[®] Soft, ^cMollelast[®], ^dSuprasorb[®] X, ^eVliwasorb[®], ^fDebrisoft[®]: Lohmann & Rauscher GmbH, Rengsdorf, Germany Scientific grant Lohmann & Rauscher

EWMA: 23-25 May, 2012, Vienna, Austria ID: 42523