Activated Carbon Cloth in Contact with Venous Leg Ulcer Granulation Tissue is Synergistic with Fuzzy WaleFocused Elastic Compression Therapy

Problem
- 76 yo with Traumatic R Leg VLU
- Senile skin
- Congestive Heart Failure with Edema
- Painful wound-intolertant of elastic compression Rx

Treatment
- Mechanical Debridement
- 3 layer dressing
- Activated Carbon Cloth* is added as a contact layer + 3 layer compression dressing at day #14

Outcome
- Slow response to 14 weeks of 3 layer compression
- Active carbon cloth + wrapped foam compression

Conclusion
- Activated charcoal therapy appears to have enhanced effectiveness of elastic compression therapy

Problem
- VLU refractory to 11 weeks of advanced wound clinic Rx
- Morbid Obesity
- Sleeps sitting up to prevent apnea, Pickwickian syndrome
- Massive edema with weeping lymphoedema
- Noncompliant with CHF Rx
- Tracheostomy, pulmonary hypertension
- Thick exuberant granulation tissue

Treatment
- VLU refractory to 14 weeks of 3 layer compression
- Active carbon cloth + wrapped foam compression

Outcome
- After 6 months of Rx activated charcoal therapy* + foam wrap compression heals VLU in 5 weeks

Conclusion
- Activated charcoal therapy appears to have enhanced effectiveness of elastic compression therapy

Problem
- Early recurrent VLU
- Recurrent VLU 3 weeks after 10 weekly clinic visits for 3 layer compression
- Senile skin

Treatment
- Active carbon cloth* + fuzzy wale elastic compression

Outcome
- Recurrent VLU heals 80% with 11 weeks of standard layer compression

Conclusion
- Activated charcoal therapy appears to have enhanced effectiveness of elastic compression therapy

Problem
- Comorbidities:
  - non-diabetic, chronic
  - high risk critical comorbidity that predicts healing
  - poorly controlled edema around the venous leg ulcer (VLU) evidence of poor modulation of the immune system

Treatment
- 6 layer

Outcome
- This study asks two questions, is activated charcoal a superior antimicrobial contact layer during elastic compression therapy when delivering elastic compression therapy to:
- VLU (wound present >12 weeks)
  - Thick exuberant granulation tissue
  - Noncompliant with CHF Rx

Conclusion
- Activated charcoal therapy appears to have enhanced effectiveness of elastic compression therapy

References
- www.altrazeal.com/global/randomized-clinical-trial.html

*Zorflex® Active Carbon Cloth, Calgon Carbon, Tyne and Wear, UK  
**Actisorb ® Carbon Cloth with Silver (deconstructed at bedside), Systagenix, Gatwick, UK  
***EdemaWear®, Compression Dynamics, LLC, Omaha, NE