Anionic Chelation: A New Dynamic In Wound Care

POSTER 1 OF 2

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BACKGROUND
81 year old female patient with multiple chronic non-healing wounds for 6+ years.

PATIENT’S MEDICAL HISTORY
2014
• Cancer of left breast, stage 1, estrogen receptor positive
• Acute CHF (congestive heart failure) possibly diastolic
• Mitral valve replacement 2014 and 2021

2015
• Neuropathy, toxic (HCC)
• Osteoarthritis, localized, shoulder, right
• Hyperlipidemia

2016
• Surgery right ankle fusion due to neuropathy
• Right ankle infection
• Surgery right ankle fusion due to neuropathy

2017
• Split thickness graft right lower leg with later failure of grafts
• Congenital lymphedema

2018
• PVD (peripheral vascular disease) (HCC)
• Atherosclerosis of native artery of both lower extremities with intermittent claudication (HCC)
• Venous ulcers of lower extremity

2019
• Thigh shingles
• Bell’s palsy

2020
• Open wound of right knee with artificial knee with complication, subsequent encounter
• Popliteal artery stenosis, right (HCC)
• Tibial artery stenosis, right (HCC)

2021
• Mitral valve replacement
• Acute respiratory failure with hypoxemia (HCC)
• Acute on chronic systolic CHF
• Acute PE
• Multiple open Wounds in bilateral lower extremities
• Moderate protein-calorie malnutrition (HCC)
• Hypercholesterolemia
• S/P MVR (mitral valve replacement)

2022
• UTI (urinary tract infection)
• Sepsis (HCC)
• Pacemaker implanted

CASE STUDY
Previous costs and treatments 2016- July 2022 have included
1. Amnion: Tissue at least three different occasions totaling a cost over $250,000.
2. DermaGraft used on at least three occasions totaling $150,000.00
3. Hyperbaric O2: Tissues with wound care expenses
4. Multiple operating room debridements totaling over $250,000.
5. Weekly office visits over $20,000.00

Costs:
8/28/22
• 3 Skin grafts lower extremity with failure of grafts
• Hyperbaric chamber, Infliximab, Warton’s jelly injections, true relief treatments over $120,000.
• Multiple operating room debridements costing over $200,000.

9/29/22
• 3 Skin grafts lower extremity with failure of grafts
• 3 Skin grafts lower extremity with failure of grafts

Outcomes:
There was intermittent improvement between 2016 and the first half of 2022 using the previous treatments noted above. During the previous time of care the wounds continued to fail and size wound.

New Treatment Protocol:
The patient was changed to:
Thermoset Anti-biofilm Cleanser
AgFresh™ Wound Hydrogel 2-part suspension wound dressing

The wounds were cleaned and dressings were changed 3X a week.

Results After Three Months of Treatment:
1. Two wounds completely resolved.
2. Two wounds have reduced 60-70% in size and healthy viable tissue can now be seen over the entire area of each wound.
3. Total product costs to date less than $300.
5. Treatment will continue to full resolution of remaining wounds.

Approximate total: $7,800.00

INVESTIGATORS
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