The Need For Advanced Wound Care

The Sheehan Study

Insignificant decrease in wound size early in treatment makes definitive wound healing more challenging.

The likelihood of a wound being healed at 12 weeks is dramatically decreased if the wound is not 50% smaller in the first 4 weeks.

STPH Clinic for Wound Care and Hyperbaric Medicine

- Established in 2003
- Advanced wound care technologies
- Innovative Multidisciplinary Approach
Multidisciplinary Approach

- John Kessels, MD, Medical Director
- Brian Strand, MD, Plastic Surgeon
- M’Liss Hogan, MD, Plastic Surgeon
- Consulting Services
  - Infectious Disease, Mike Hill, MD
  - General Surgery, Northlake Surgical Group
  - Cardiovascular Services
    - Covington Cardiology Clinic
    - Ochsner Cardiology
  - Podiatric Services, Sept. 1, 2015
Innovation

• Wound Care Telemedicine
STPH Clinic for Wound Care and Hyperbaric Medicine

Advanced Wound Technologies Available

Current Best Practice:
Wounds that have *not healed after 4 weeks* should be treated with Advanced Wound Therapies

- Total Contact Casting
- Sensilase Vascular Testing
- Regenerative Medicine
- Ultrasonic Debridement
- Negative Pressure
- Hyperbarics
Hyperbaric Oxygen Therapy

Pressurized 100% oxygen *significantly increases tissue oxygenation*

Substantial **benefits** for slow healing wounds

- Speed of healing
- Blood vessel formation
- Elimination of toxins
- Preservation of damaged tissue
- Infection control
- Surgical incision healing
IV Antibiotic Infusion

Initiation and **coordination of IV Antibiotics** for long-term need

**In-clinic infusions** by Registered Nurses
Total Contact Casting

Significantly improves **success and speed** of wound healing

Application and management of walking casts for **diabetic/insensitive foot wounds**

1) Source: Evaluation of Removable and Irremovable Cast Walkers in the Healing of Diabetic Foot Wounds
2) A randomized controlled trial.
3) David G. Armstrong, DPM, MSC, PHD123, Lawrence A. Lavery, DPM, MPH4, Stephanie Wu, DPM, MS2 and Andrew J.M. Boulton, MD, FRCP3
Sensilase Vascular Testing

Evaluation of Peripheral Artery Disease or Critical Limb Ischemia

Prediction of wound healing and optimization of limb salvage

1) Source: Castronuovo et al.3—53 patients (61 limbs), prospective study (100% ulcers/gangrene). SPP reliably predicted wound healing and accurately identified CLI. Kondo et al.4—24 patients (44 limbs), prospective study (100% diabetes mellitus [DM]/hemodialysis). SPP was more sensitive to quantify ischemia compared with ABI; validation metric was digital subtraction angiography. Okamoto et al.5—140 patients (266 limbs), prospective study (100% hemodialysis patients). SPP was more effective in identifying PAD than transcutaneous partial pressure oxygen or transcutaneous oxygen tension (TcPO2), ABI, or toe-brachial index or toe-brachial indices (TBI); validation metric was multidetector-row computed tomography angiogram. Yamada et al.6—211 patients (403 limbs), retrospective study. SPP was a more accurate, objective measurement for assessing severity of PAD and predicting wound healing compared with ABI, TBI, or TcPO2.
Ultrasonic Debridement

When appropriate, Ultrasonic Debridement can achieve healing faster with fewer procedures.

Less invasive than standard sharp debridement.

Debridement Procedures Needed to Achieve Healing in a 12-week Period

- Ultrasonic: 3.5
- Sharp: 5.8

2) Martin E. Wendelken, DPM, RN, Lee Markowitz, DPM, and Oscar M. Alvarez, PhD
Negative Pressure Wound Therapy
STPH Clinic patients are much less likely to have a more invasive surgical debridement procedure than patients at other wound care centers.
Lower Cost

Less invasive selective debridement also comes with lower cost for payers/patients. Selective debridement is ¼ the billed cost of surgical debridement.

STPH Clinic 2014 Average Procedures Performed

- $1445 per procedure*
- 499 Surgical

- $331 per procedure*
- 864 Selective

* Based on CPT specific Medicare reimbursement rates
STPH Clinic for Wound Care and Hyperbaric Medicine

Faster Healing

Average Days to Heal All Wound Types

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<thead>
<tr>
<th>STPH Clinic</th>
<th>Wound Expert Database Average</th>
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<td>33</td>
<td>63</td>
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Patients treated with less invasive and lower cost procedures at STPH Clinic heal faster - on average 30 days faster than patients at other wound clinics.

Source: January – April 2015 Wound Expert Database, St. Tammany Wound Clinic vs all database wound care centers.
Access

- Established relationship with Ochsner Hospital outpatient services and STPH outpatient services, acute care setting, and the ED to ensure timely handover of patients.
- Focus is to see patients within 24-48 hours of referrals, depending on payer requirements.
- Same day access for urgent care patients on an individual case basis.
Resources
