

Transcutaneous Oximetry Testing and Interpretation


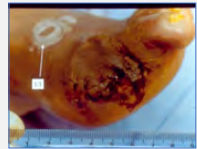

Dick Clarke, CHT

Transcutaneous Oximetry's Evidence-Based Importance

Pro-Con analysis of hyperbaric wound referral screening options

Primary Training in Hyperbaric Medicine
Columbia, South Carolina

Non-invasive physiologic assessment of skin microcirculatory oxygenation

Non-Invasive POC Extremity Wound Screening Options

- Blood pressure
- Blood flow
- Tissue oxygen saturation
- Wound tissue thermal reflectance
- Transcutaneous tissue oxygen tension

Laying the framework

HBO therapy routinely employed in the management of diabetic foot ulcers

HBO DFU efficacy & effectiveness data conflicting

HBO costly, frequently involves many weeks/several month commitment, not without risk

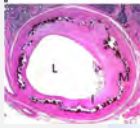
Even reviews favorably disposed to HBO therapy uniformly argue for better patient selection

Emerging NIRS & LWIR thermography technologies

Tissue viability, limb preservation & wound healing a function of oxygen availability

Blood pressure & blood flow common oxygen delivery surrogates

Blood pressure may be normal during development of calcinosis > falsely elevated ABI & reduced flow secondary to wall thickening > undiagnosed low O₂ delivery



Blood flow may be normal while its oxygen content is not > undiagnosed low O₂ delivery

anatomic and/or physiologic dead space > ventilation-perfusion mismatch
physiologic shunt per ARDS, pulmonary edema, alveolar collapse, pulmonary AVM
anemia; elevated altitudes

Risk factors for diabetic amputation

| Pathophysiologic Factor | Odds Ratio |
|---|------------|
| Cutaneous circulation tcpO ₂ <20 vs. >40mmHg | 161 |
| Peripheral arterial circulation Doppler ABI <0.45 vs. 0.70 | 55.8 |
| Neuropathy lacking distal vibratory sense | 15.1 |
| Ulcers become infected | 10.1 |

Reiber GE, et al. 1992
Ann. Int. Med. 117:291-295

THE HYPERBARIC MEDICINE SERVICE

TRANSCUTANEOUS OXYGEN SCREENING

Name: _____ Date: _____
Referral Physician: _____

You have just undergone a transcutaneous oxygen study of:

Both feet
 Your left foot
 Your right foot

This test examines the amount of oxygen present in the skin. This information represents an indirect assessment of the health of both the target blood vessels in your legs, and the overall state of your feet.

It is a screening test, which means that additional tests may be necessary, depending upon the results. The information obtained should be discussed with your regular doctor, who will be responsible for any decision to proceed with further testing, or without same. We have attached several articles that describe the importance of this test to the evaluation of risk for healing complications for the benefit of your doctor. Thank you for helping us!

FINDINGS

Both feet Right foot
Left foot

Normal exam >40 mmHg
There is a normal measurement of a significant blood flow
perfusion.

Borderline exam 30 - 39 mmHg
Suggests lower flow within the threshold, see arterial logs, and do not necessarily represent just or more threatening.


Abnormal exam <30 mmHg
Indicates a critical low flow, requires the arterial angiogram, and may necessitate the finding of any vessel or space compromise.

For additional information, please call the Hyperbaric Medicine Service at _____


Blood Pressure

Ankle-Brachial Index (ABI)

- 1.0-1.2/1.4 normal exam
- 0.9-0.99 borderline exam +/- irregularity; "clinically acceptable"
- 0.8-0.9 modest impairment; identify & manage risk factors
- 0.5-0.8 greater impairment (50-80% perfusion); specialist referral
- < 0.5 severe disease (< 50% perfusion); specialist referral
- > 1.2/1.4 abnormal exam c/w incompressible vessels; clinically significant calcification may be present prior 1.0



How to Interpret the ABI
 • For diagnosis of PAD interpret each leg separately from ABI per leg.
 • For the CI risk stratification take the lowest ABI between the two legs.
 • Interpretation



European Society Vascular Surgery 2018

Blood Pressure

Ankle-Brachial Index (ABI)

Strengths

- Long-standing most widely recognized/employed screening tool
- Relative ease of testing; not operator dependent
- Standardized interpretation largely c/w MRI/MRA findings


Weaknesses

- Only assesses macro-vasculature
- Doesn't localize disease
- Doesn't assess below level of ankle cuff
- No information related to oxygen delivery

Blood Pressure

Toe-Brachial Index (TBI)

- 0.7 essentially normal exam
- <0.7 c/w arterial occlusive disease



Blood Pressure


Toe-Brachial Index (TBI)

Strengths

- Assesses all-important foot/digits
- Relative ease of testing; not operator dependent

Weaknesses

- Poor consensus re threshold values
- Not obtainable with Hallux; Ray; Ray revision; TMA amputations
- Confounded by calcification; no formal elevated index guidance
- No information related to oxygen delivery




© Robert A. Christian

Blood Pressure

Skin Perfusion Pressure (SPP)

Minimum BP required for restoration of microcirculatory & capillary flow
 Laser light strikes RBCs as flow resumes > Doppler (wavelength shift) effect
 Interrogates shifted & unshifted light; places arbitrary value on shifted light = RBCs

- 50-100 mmHg considered normal range
- 30-50 mmHg marginal ischemia +/- PAD symptoms
- <30 mmHg CLI; wound healing/limb preservation problematic



Vasamed Sensilase

Blood Pressure

Skin Perfusion Pressure

Strengths

- Unaffected by calcification
- Unaffected by mild-moderate edema
- Can be used when TBI not possible
- Assesses microcirculation

Weaknesses

- Pressure responses & predictive aspects poorly validated
- No information related to oxygen delivery

Blood Flow

Doppler Ultrasound/Ultrasonography

- Pulsed sound waves transmitted to area of interest
- Undergoes Doppler (shift in pitch) effect when bouncing off moving objects
- Returning sound interrogated to determine RBC speed & direction

Lifedop L250

Blood Flow

Doppler Ultrasound/Ultrasonography

Strengths

- Widely accepted & ubiquitous screening device
- Accurate & reliable
- Simple to use
- Unaffected by vessel calcification & very low flow rates

Weaknesses

- Resolution not great enough for microcirculation
- No information related to oxygen delivery

Blood Flow

Laser Doppler Flowmetry (LDF)

- Another Doppler-based technology; near infrared low power laser light
- Interchangeable probes for shallow & deeper penetration
- Assesses velocity & direction of RBCs
- Filters out reflected unshifted/scattered light ("noise")
- Generates proportional shifted light scale as estimate of flow

Laser Doppler Flowmetry (LDF)

Blood Flow

Laser Doppler Flowmetry

Strengths

- Accurate & reliable; hematocrit WNL
- Simple to use
- Unaffected by vessel calcification & very low flow rates

Weaknesses

- Arbitrary perfusion scale (1-10) as flow surrogate
- Susceptible to hematocrit changes
- Signal return may include RBCs flowing below skin
- No information related to oxygen delivery

Local Tissue Oxygen Saturation


Near Infrared Spectroscopy (NIRS)

- Emits light (just outside visible spectrum) to area of interest
- Detects various reflective light spectrum differences
- Selectively measures OxyHb & DeoxyHb reflectance values
- Calculates percent "tissue" oxygen saturation

Local Tissue Oxygen Saturation

Near Infrared Spectroscopy (NIRS)

- Introduced as continuous non-invasive monitoring of brain tissue oxygen saturation (StO₂)
- Employment increasingly suggested elsewhere
- Longer wavelengths being researched




Somanetics INVOS

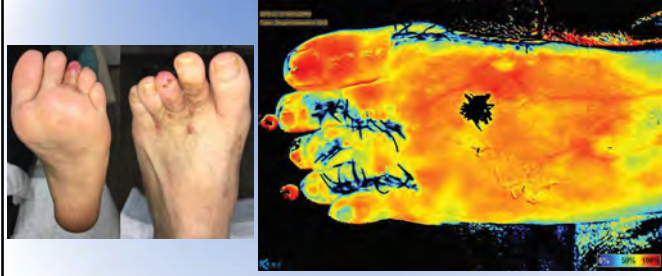
Local Tissue Oxygen Saturation

Near Infrared Imaging (NIR)

- Battery-operated, handheld device
- Single "snapshot" vs. continuous monitoring
- Initially two manufacturers: NIR vs. visible light
- Measures OxyHb; DeOxyHb > calculates StO₂



Snapshot NIR



With permission: Today's Wound Clinic/Kent Imaging

Comparing near infrared spectroscopy and transcutaneous oxygen measurement in hard-to-heal wounds: a pilot study

"The gold standard for assessing oxygenation is TCOM..."

- TCOM: ok, several drawbacks
- Time/labor intensive
- Room temp must be between 68-72F
- Probes cannot be placed in wound bed
- Disposable are expensive

Advantages of NIRS vs. TCOM

- Non-invasive
- Does not require skin contact
- Does not require spectable eyes
- Immediate real-time data, avoiding delay in treatment regimen

NIRS derived mmHg O₂: electromagnetic light reflectance from IR wavelengths measured by a patented computer interface algorithm to generate calculated OxyHb level which is mathematically converted to StO₂, that is then mathematically converted to pO₂ using standard Severinghaus dissociation curve

TCOM derived mmHg O₂: ...direct measurement free oxygen that diffuses to skin surface.

Conclusion: Data suggests TCOM overestimates O₂ measurements vs. NIR

Serena TE, et al. Journal Wound Care 2020;29(6)

Local Tissue Oxygen Saturation

Near Infrared Imaging (NIR)

Strengths

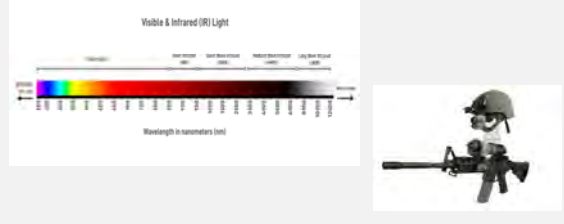
- Battery-operated handheld; high image storage capacity
- Uniquely assesses regional StO₂
- Ease of use/interpretation; touch screen display StO₂ values
- Suggested healing response tracker

Weaknesses

- Does not measure tissue oxygenation
So, no assessment plasma-borne oxygen delivery (basis for HBO)
- Unable to direct HBO case management as per tcPO₂
- Presently ill-defined normal/abnormal StO₂ values; some crossover
- Presently unclear as to clinical relevance wound StO₂

Wound Thermal Reflectance

Long-Wave Infrared Thermography (LWIT)

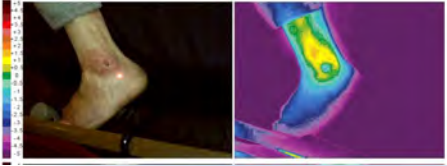



Wound Thermal Reflectance

Detects & maps thermal energy created by cellular metabolism

Reflects relative state of/changes in perfusion compared to healthy tissue

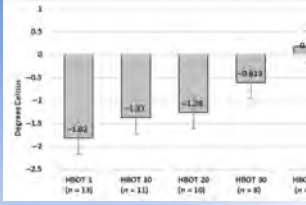
Does change (increase) in thermal reflectance indicate healing response?

With permission: M. Heyboer, SUNY

Pilot study: Utility of long-wave infrared thermography as a correlate to transcutaneous oximetry for candidates of hyperbaric oxygen therapy

Heyboer M, et al. *Wound Repair Regeneration* 2022; 1-7



| Treatment | Mean Change (°C) | n |
|-----------|------------------|----|
| HBO T 1 | -1.84 | 13 |
| HBO T 20 | -1.00 | 13 |
| HBO T 20 | -1.28 | 13 |
| HBO T 30 | -0.833 | 13 |
| HBO T 40 | 0.44 | 13 |

Wound Tissue Thermal Reflectance

Strengths

- Battery-operated handheld, ease of operation
- Directly measures changes in wound/tissue thermal energy
- Preliminary data...correlates with TCOM improvement during ulcer healing
- High quality evidence: Detects pre-visual temp. anomalies before visual pressure injuries

Weaknesses

- Possible confounding factor peri-HBO changes in environmental temperature
- Value as a wound management/hyperbaric screening tool not yet quantified


Transcutaneous Tissue Oxygen Tension

Transcutaneous Oximetry (TCOM)

Air breathing tcpO₂ values at 1.0 ATA offer no useful healing prediction
progressively decreasing values likewise offer no specific guidance
identifies local hypoxia

Oxygen breathing tcpO₂ values at 1.0 ATA likewise provide no useful prediction
can indicate need for additional arterial testing

In-chamber tcpO₂ values offer some guidance; lack statistical precision
tcpO₂ > 200 mmHg most associated with healing response



PeriMed PeriFlux 6000

Four-part transcutaneous oximetry screening questionnaire

Is wound healing complicated by local hypoxia?
- are patients **EXPECTED** to benefit?

Is any such hypoxia reversible?
- are patients **CAPABLE** of benefiting?

Is there early evidence of response?
- **ARE** patients benefiting?

Has a therapeutic endpoint been reached?
- have patients **SUFFICIENTLY** benefited?

Is wound healing complicated by local hypoxia?

Normal lower extremity/foot tcpO₂ defined as > 50 mmHg

Holman DA, et al. *Surg Clin North Am* 2003;107:107-124
Gupt S, et al. *Angiology* 2002;53(2):333-339
Hessner DS, et al. *Ann Surg* 2006;243:1037-1043
Dowd GSC, et al. *J Bone Joint Surg* 2003;85B:79-83
Dowd GSC, et al. *Clin Phys Physiol Meas* 2006;31(4):65-68
Collinson JJ, et al. *Clin Phys Physiol Meas* 2006;31(5):259-263
Dowdy J, et al. *Undersea Hyperb Med* 2002;29:243-246
Tombura AA, Munster TA. *World J Surg* 2004;28:204-209

Support of tissue viability & wound healing defined as tcpO₂ ≥ 40 mmHg

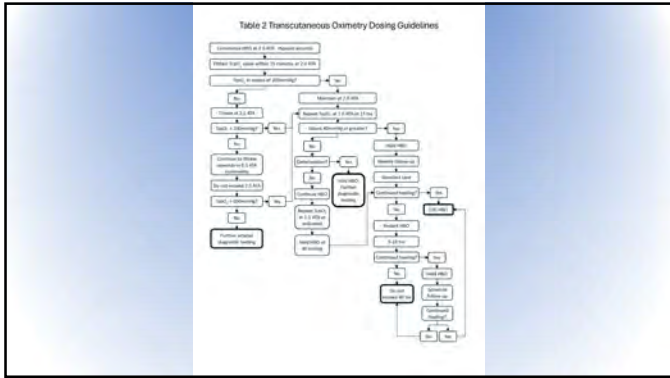
Dowd GSC, et al. *J Bone Joint Surg* 2003;85B:79-83
Smart DR, et al. *Chung Hua Hsueh Kuo Tsa Chih* 2006;86(1):71-85
Ruangrueang C, et al. *J Wound Care* 2012;23(3):202-206
Gronholtz H, et al. *Diabetes Care* 2010;33(3):677-682

Impaired wound healing threshold defined as tcpO₂ < 40 mmHg

Hunt TG, et al. *World J Surg* 2003;27:1
Pothong T, et al. *Surg Res Int* 2016;9(2):365-369
Bakken M, et al. *Diabetes Care* 1999;22(2):147-151
Gronholtz H, et al. *Ann Surg* 2012;255(1):107-110
Smart DR, et al. *Chung Hua Hsueh Kuo Tsa Chih* 2006;86(1):71-85
Tranck T, et al. *Chung Hua Hsueh Kuo Tsa Chih* 2012;92(5):82-87

Critical limb ischemia defined as tcpO₂ ≤ 30 mmHg

Clin C, et al. *J Vasc Med Biol* 2004;16(2):102-111
Birkhoj S, et al. *J Vasc Med Biol* 2006;18(4):405-412
Pothong T, et al. *J Surg Res* 2016;198:106-110
Burt TL, et al. *Ann Vasc Med Biol* 2006;18(2):224-227
Berkman S, et al. *Regener Med* 2012;3(3):206-209
Alpaytan V, et al. *European Heart J* 2018;39:763-822



Low tcpO₂ predicts abnormal arteriography

96% of 66 limbs with tcpO₂ < 30mmHg had abnormal arteriogram
Ballard JL, et al. 1995

tcpO₂ < 30mmHg reliable indicator of need for arteriography, with 98% limbs showing significant disease
Bunt TJ, et al. 1996

What about any control sites?

Left second intercostal space as 'central' oxygenation state...normal range 65-90mmHg (1.0 ATA)
regional perfusion index (RPI)

Contra-lateral sites may represent poor comparison of normal to diseased perfusion states

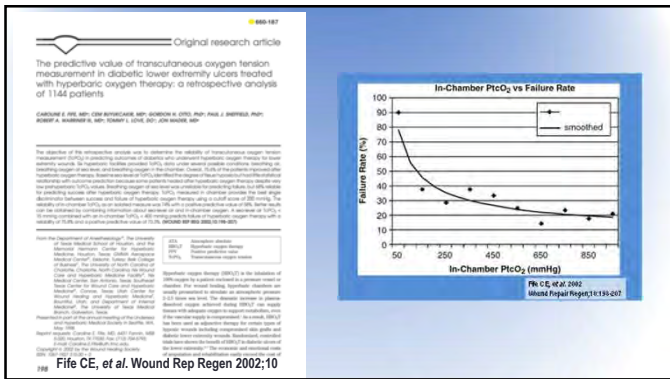
Testing process

Upon site preparation and sensor(s) attachment...air breathing until value(s) stabilization

- ~ semi-recumbent
- ~ 10-15 mins

Value(s) < 40 mmHg...100% O₂ challenge @ 14 lpm per non-rebreather mask

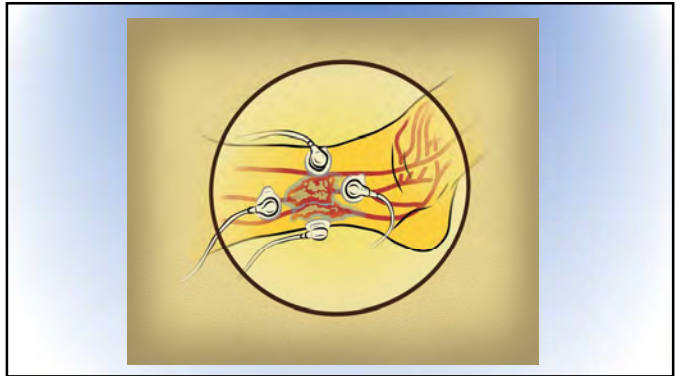
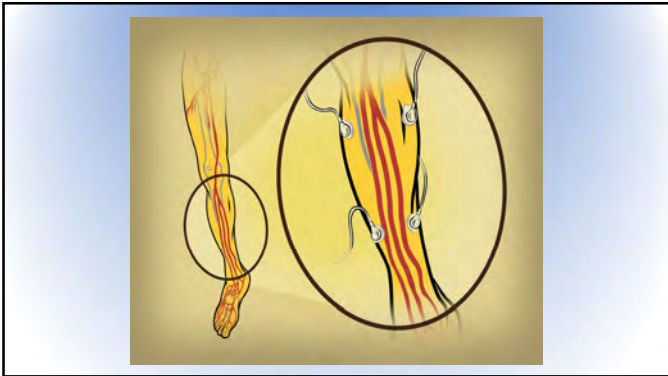
- ~ 10 mins.



- Factors influencing tcpO₂**
- | Systemic | Local |
|--|--|
| Pulmonary & cardiac function; oxygen content | Obesity |
| Central & peripheral vascular perfusion | Edema |
| Smoking/nicotine, caffeine ingestion | Increased skin thickness |
| Vasoactive pharmacologic agents | Bony prominences |
| Environment (temperature /altitude) | Cutaneous late radiation tissue injury |
| | Poor skin preparation |
| | Poor electrode attachment |

Site selection; anatomic factors

- Clear understanding of question in need of address
- Appreciate arterial anatomy associated with question
- Principal testing site(s) consistent with that determinant
- Any necessary secondary testing site(s)





Journal of Tissue Viability

Analysis of transcutaneous oxygen pressure values stratified for foot angiosome or podiatric diabetic foot ulcer healing

Maria Lopez-Moral, Maria Garcia-Alcalá, José J. Muñoz-Suero, Roberto García-Sánchez, María Fernández-Rodríguez, María Victoria Rodríguez-Cordero

1000-303

This study suggests that angiosome guided tcpO2 contributes to a prognosis of successful foot ulcer healing

Lopez-Moral M, et al. J Tissue Viability 2023;32:480-486

1000-303

Foot Angiosome Assessment from Peripheral Tissue Perfusion Using Transcutaneous Oxygen Saturation from mapping in Patients with Critical Limb Ischemia

Kagaya Y, et al. European J Vasc Endo Surgery 2014;47(3)

When to delay testing

Immediately post hemo-dialysis
Nutritive skin perfusion impaired during dialysis, sufficient in some cases to cause chest/cardiac & leg pain
~ significant tcpO2 decreases in pts. with & without PVD
Weiss T, et al. 1998
Neph Dial Trans, 13

Markedly edematous tissue
Diffusion barrier between functioning capillaries & skin
Stephens M, et al. 1999
LHM;26(2):93-97

Caffeine ingestion
Restrict caffeine-containing substances prior to testing
Dookey J, et al. 1996
LHM;23(3):167-174

Nicotine
Avoid any use for at least two hours prior to testing
Jensen JA, et al. 1994
Arch Surg;126:1131-1134

Supplemental oxygen administration
Absence of conversion factors

Post-successful flow augmentation tcpO2 responses

Several day delay exists from revascularization to significantly improved skin oxygenation
 - even 3 days postop, 5/11 pts still had values < 30 mmHg
 Aroyo CI, et al. 2002
 J FootAnkle Surg 41(4)

"It takes 3-4 weeks after PTA for tcpO2 values to reach optimal levels for wound healing"
 - "Findings suggest that, when surgery can be delayed, best time to perform aggressive debridement/minor amps is 3-4 weeks post-PTA"
 Caselli A, et al. 2005
 Diabetes Medicine 22

"tcpO2 continued to increase up to 8 weeks after PTA, while ABI remained constant"
 - "perhaps revascularization in sparsely perfused areas causes increase in angiogenesis processes leading to an increase in capillary function"
 Pardo M, et al. 2015
 British J Radiology 88

Possible etiologies:
 Post-operative edema; vasospasm due to high pressures; ischemia-reperfusion injury;
 endothelial cell trauma; micro embolic events; effects of dye; angiogenesis processes

Newly introduced sensor technology based on fluorescence
 no oxygen consumption

No electrochemical sensor electrode wear/replacement

No regular calibration required

Readout - 8 minutes; notification of steady state

40 - 44 C sensor range



Medicap, Germany: Precise 8008 Gen.2

Basic Science Research
 Comparison of Photo-optical Transcutaneous Oxygen Tension Measurement with Electro-chemical Transcutaneous Oxygen Tension Measurement in Patients with Arterial Claudication

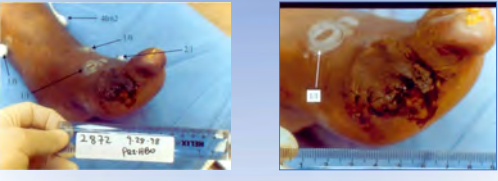
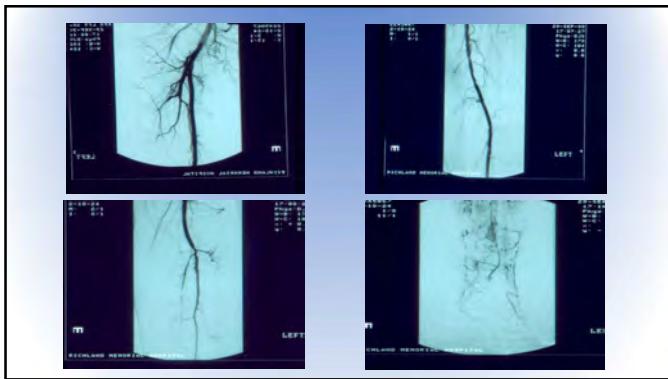
Photo-optical tcpO2 demonstrated acceptable agreement with electro-chemical tcpO2

Photo-optical values are in general higher in comparison

Leenstra BS, et al. Ann Vascular Surgery 2021;77:274-279

74-year-old DM underwent left great toe amputation secondary to ischemia; primary closure via rotational flap
 F/U: tenderness 1st metatarsal & plantar surfaces, erythema & edema; ischemic superior flap

Pt. admitted, further surgery contemplated, HBO consulted

Transcutaneous Tissue Oxygen Tension

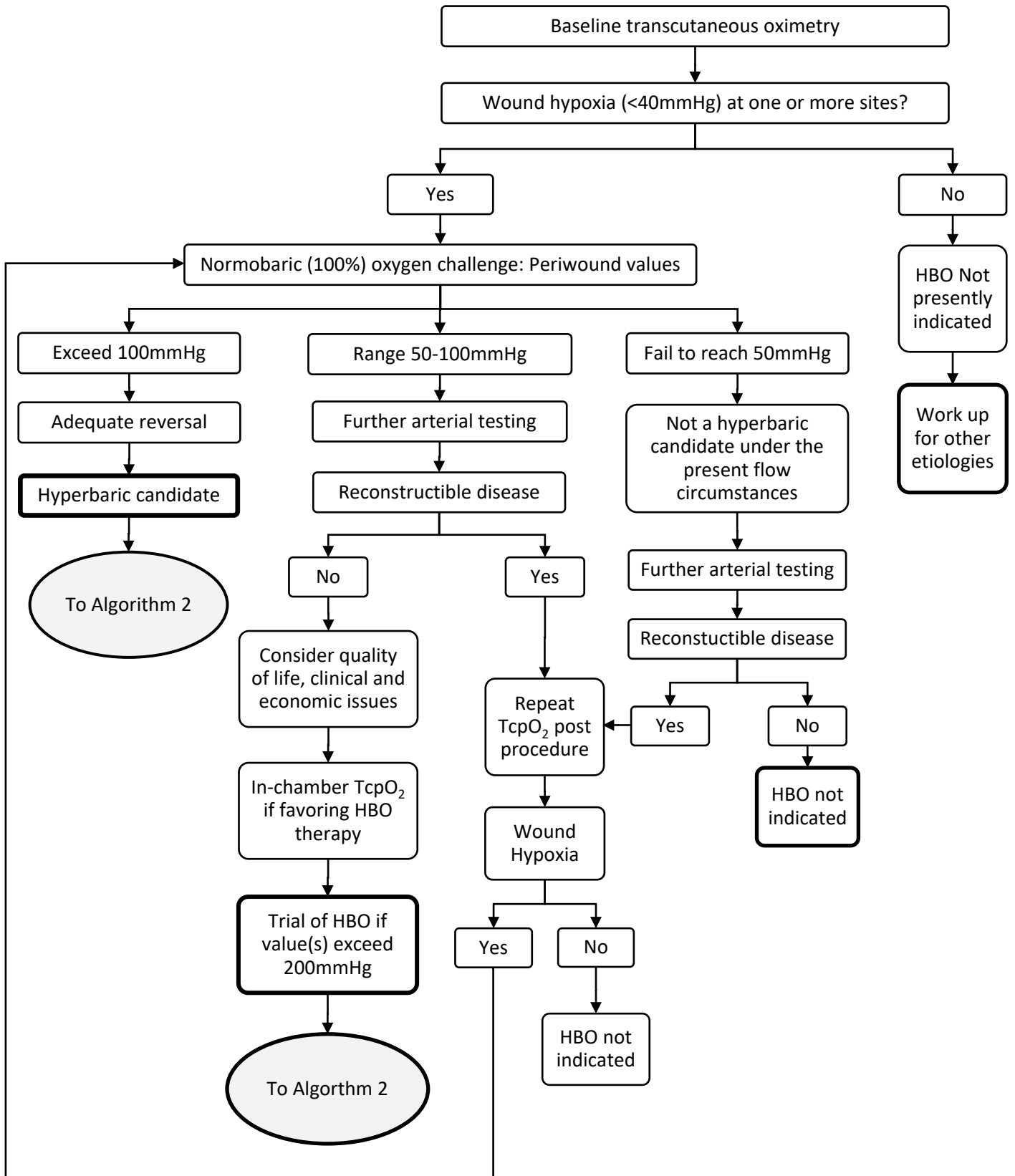
Strengths

- Directly measures tissue oxygen tension; Hb bound & plasma borne
- Unique composite indicator of micro & macro vascular health
- In-chamber testing capability
- Guides evidence-based case management
- Demonstrated to improve clinical outcomes
- Enhances cost-effectiveness

Weaknesses

- Requires more training than other options to gain competence
- Site selection inconsistency
- More time consuming (~ 30 minutes)
- Limitations; diffusing barriers; suppl. O2; dialysis; caffeine, nicotine
- Associated consumables expense

Table 1 Transcutaneous Oximetry Screening Guidelines



Transcutaneous Algorithms

Narrative and References

Hyperbaric wound healing referrals undergo a comprehensive work-up, including a detailed medical history, physical examination, and selected diagnostic testing. Baseline transcutaneous oxygen screening is followed up in an algorithmic manner in those patients whose risk-benefit ratio is in favor of a trial of hyperbaric oxygen therapy. Algorithm 2 addresses four essential questions:

- I. Is wound healing complicated by hypoxia?
- II. When present, is hypoxia reversible?
- III. Is the patient responding to hyperbaric oxygen therapy?
- IV. Has the patient reached a therapeutic endpoint?

I. Is wound healing complicated by hypoxia?

- Normal lower extremity transcutaneous oxygen values exceed 50mmHg* (1,2,3)
- Values ranging from 35-40mmHg, and higher, are considered sufficient to support oxygen-dependent wound healing (4,5,6)
- Values below this range represent a risk of healing compromise, the degree of which increases as value decreases (7,8)

II. When present, is hypoxia reversible?

For hyperbaric oxygen, a systemic method of dose delivery, to be effective, a certain degree of regional perfusion must be present.

- Breathing 100% oxygen at normobaric pressure, following the recording of a steady-state ambient air breathing value, evaluates regional arterial inflow capacity.
- Oxygen challenge values in excess of 300mmHg represent essentially uncompromised regional perfusion.
- Screening values in excess of approximately 100mmHg are suggestive of sufficient regional perfusion for limb viability, and reflect a suitable candidate for in-chamber follow-up transcutaneous oxygen testing.
- Screening values that fail to reach 100mmHg are consistent with a significant inflow abnormality, and warrant further arterial work-up. The decision to incorporate hyperbaric oxygen therapy into the treatment plan would be made on a case by case basis, in these circumstances and following decisions regarding any flow augmentation options, and as identified in Algorithm 1.

* when recorded at sea level pressure (760 mmHg)

III. Is patient responding to hyperbaric oxygen therapy?

The above patient selection process does not predict outcome. It identifies those patients who have the physiologic capacity to deliver high oxygen tensions to the wound in question. There has been an unsuccessful effort to incorporate transcutaneous oximetry as an outcome predictor.^(9,10,11,12,13) This should not be too surprising, given the complexity of such lesions, particularly in the diabetic patient. Improvement in ambient (21% O₂) transcutaneous oximetry over time probably remains the best indicator of therapeutic response.⁽¹¹⁾ Absence of increasing tissue oximetry values alerts the clinician to a potential non-responder. This should prompt evaluation of other possible impediments to wound repair, thereby avoiding an otherwise lengthy, unsuccessful and expensive course of therapy.

Transcutaneous oxygen reevaluation of the perilesional area should occur at 15 treatments, and in accordance with recommendations of the UHMS.

- a. If values are increasing, the patient is considered a responder, and hyperbaric treatments are continued to Step IV.
- b. If there has been no change, or if deterioration is evident, the patient undergoes further work-up for etiologies other than hypoxia. Hyperbaric oxygen therapy may be held at this point.

The goal of Step III is to reduce the likelihood of lengthy and ultimately unsuccessful courses of hyperbaric oxygen therapy.

IV. Has the patient reached the endpoint?

In this era of evidence-based medicine and cost containment, greater scrutiny is being directed at the health care delivery system in general, and those modalities not entirely entrenched within mainstream medical practice, in particular. It is important, therefore, that the decision to utilize hyperbaric oxygen therapy be mediated, in part, by its financial impact. In carefully selected patients, managed along algorithmic and evidence-based lines, hyperbaric oxygen therapy provides generally encouraging and clinically enduring outcomes, while reducing the patient's total health care cost. When used in a largely indiscriminate manner, it can be expensive and of questionable clinical value.

In terms of the wound referral, transcutaneous oxygen monitoring holds promise as an algorithmic management and cost containment tool. Well-oxygenated chronic wounds are directed to management strategies other than hyperbaric oxygenation. Hypoxic wounds that are the consequence of high-grade regional ischemia are likewise referred from the hyperbaricist for flow augmentation. In those patients entered into a hyperbaric treatment protocol, non-responders are identified early, rather than following many weeks, or even months, of treatment.

The final step is to identify when a course of hyperbaric oxygen therapy has produced sufficient angiogenesis to support further and spontaneous healing. It is not necessary, nor is it cost effective, to treat such wounds to complete resolution. Once the environment around the wound has been "normalized", and the patient converted to a locally host-competent state, hyperbaric oxygen can be stopped. Peri-wound transcutaneous oxygen values that reach or exceed 40 mmHg suggest adequate neovascularization has been formed. Typically, clinical evidence of healing responses will be apparent at this time. The wound may not be completely healed, however. At this point, hyperbaric oxygen therapy can be stopped. Standard wound care measures remain in force, and the patient is followed for continued healing responses. If the wound plateaus, or regresses, hyperbaric oxygen therapy is reinstated. This is uncommon. In the setting for which this protocol is designed, the chronic and refractory skin ulceration, withholding hyperbaric therapy for one or two weeks is unlikely to represent a limb-threatening event. Should there be very significant improvement in wound quality, yet not all peri-wound values have reached the 40mmHg threshold, a one-week treatment hold, with the above evaluation schedule, would be appropriate.

References

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 3. Dowd GS, Linge K, Bentley G, *et al.* **The effect of age and sex of normal volunteers upon the transcutaneous oxygen tension in the lower limb.** *Clinical Physics and Physiology Measurement* 1983; 4:65
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Hyperbaric Medicine Service

Transcutaneous Oximetry Assessment

Patient Label: _____

Patient Name _____ Date _____ HBO # _____ Photo

Interpreting Physician _____ Clinician _____

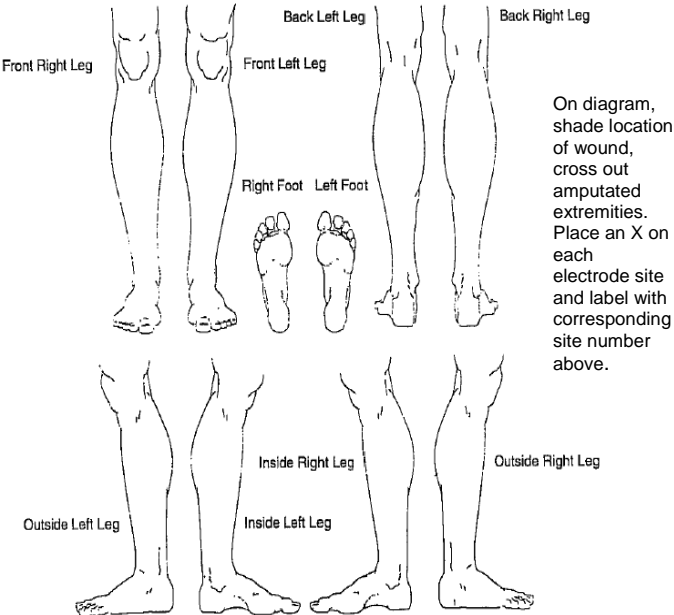
Pulse Oximetry _____ % Patient on _____ L of O₂ BP _____ P _____ R _____ T _____

Diabetic: Yes No Dialysis: Yes No *If yes, last tx* Smoker: Yes No *If yes, last use*

Reference Site: _____ mmHg on Room Air Reference Site Location: Chest Arm

| Site 1 | Site 2 | Site 3 |
|--|--|--|
| Location Description: _____ | Location Description: _____ | Location Description: _____ |
| RPI: _____ | RPI: _____ | RPI: _____ |
| Baseline Measurement on Air: _____ mmHg | Baseline Measurement on Air: _____ mmHg | Baseline Measurement on Air: _____ mmHg |
| 1 Min on 100% O ₂ : _____ mmHg | 1 Min on 100% O ₂ : _____ mmHg | 1 Min on 100% O ₂ : _____ mmHg |
| 2 Min on 100% O ₂ : _____ mmHg | 2 Min on 100% O ₂ : _____ mmHg | 2 Min on 100% O ₂ : _____ mmHg |
| 3 Min on 100% O ₂ : _____ mmHg | 3 Min on 100% O ₂ : _____ mmHg | 3 Min on 100% O ₂ : _____ mmHg |
| 4 Min on 100% O ₂ : _____ mmHg | 4 Min on 100% O ₂ : _____ mmHg | 4 Min on 100% O ₂ : _____ mmHg |
| 5 Min on 100% O ₂ : _____ mmHg | 5 Min on 100% O ₂ : _____ mmHg | 5 Min on 100% O ₂ : _____ mmHg |
| 10 Min on 100% O ₂ : _____ mmHg | 10 Min on 100% O ₂ : _____ mmHg | 10 Min on 100% O ₂ : _____ mmHg |
| Site 4 | Site 5 | Site 6 |
| Location Description: _____ | Location Description: _____ | Location Description: _____ |
| RPI: _____ | RPI: _____ | RPI: _____ |
| Baseline Measurement on Air: _____ mmHg | Baseline Measurement on Air: _____ mmHg | Baseline Measurement on Air: _____ mmHg |
| 1 Min on 100% O ₂ : _____ mmHg | 1 Min on 100% O ₂ : _____ mmHg | 1 Min on 100% O ₂ : _____ mmHg |
| 2 Min on 100% O ₂ : _____ mmHg | 2 Min on 100% O ₂ : _____ mmHg | 2 Min on 100% O ₂ : _____ mmHg |
| 3 Min on 100% O ₂ : _____ mmHg | 3 Min on 100% O ₂ : _____ mmHg | 3 Min on 100% O ₂ : _____ mmHg |
| 4 Min on 100% O ₂ : _____ mmHg | 4 Min on 100% O ₂ : _____ mmHg | 4 Min on 100% O ₂ : _____ mmHg |
| 5 Min on 100% O ₂ : _____ mmHg | 5 Min on 100% O ₂ : _____ mmHg | 5 Min on 100% O ₂ : _____ mmHg |
| 10 Min on 100% O ₂ : _____ mmHg | 10 Min on 100% O ₂ : _____ mmHg | 10 Min on 100% O ₂ : _____ mmHg |

RPI= Extremity site divided by reference site on air. ABI: _____



Interpretation: _____

Physician Signature: _____

| | |
|--|---------------------|
| Site # _____ | Room Air _____ mmHg |
| In-Chamber TCOM | |
| Record values every 10 mins up to 200mmHg: | |
| _____ 2.0 ATA | _____ mmHg |
| _____ 2.1 ATA | _____ mmHg |
| _____ 2.2 ATA | _____ mmHg |
| _____ 2.3 ATA | _____ mmHg |
| _____ 2.4 ATA | _____ mmHg |
| _____ 2.5 ATA | _____ mmHg |

THE HYPERBARIC MEDICINE SERVICE

TRANSCUTANEOUS OXYGEN SCREENING

Name _____

Date _____

Regular Physician _____

You have just undergone a transcutaneous oxygen study of:

- Both feet**
- Your left foot**
- Your right foot**

This test measures the amount of oxygen present in the skin. This information represents an indirect assessment of the health of both the larger blood vessels in your legs, and the smaller ones in your feet.

It is a screening test, which means that additional tests may be necessary, depending upon the results. The information obtained today should be discussed with your regular doctor, who will be responsible for any decision to proceed with further testing, or related care. We have attached several articles that describe the importance of this test in the evaluation of risks for healing compromise, for the benefit of your doctor. Thank you for stopping by!!

FINDINGS

| Both Left Feet | Left Foot | Right Foot |
|-------------------|--------------|---------------|
|-------------------|--------------|---------------|

| | | |
|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|

Normal exam ≥ 40 mmhg

-k *there is presently no evidence of a significant blood flow impairment*

| | | |
|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|

Borderline exam 30 – 39 mmhg

-k *oxygen levels fall within the borderline –to- normal range, and do not presently appear limb or tissue threatening*

| | | |
|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|

Abnormal exam < 30 mmhg

-k *oxygen levels are below the normal anticipated range, and may complicate the healing of any wound or injury.*

For additional information, please call the Hyperbaric Medicine Service at _____.

Random Report

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