



Real beauty comes from within...



Reveal the wound healing capacity – Perform an intelligent tcpO₂

Patient born 1940.
Bilateral ulcerations.
Unreliable ankle pressures.
Suspected ischemia.



Prepare for tcpO₂
Connect electrodes and
document positioning.



Start tcpO₂
Follow instructions
on screen.

Baseline tcpO₂ value
Right foot = 1 mmHg
Left foot = 45 mmHg



**What does a tcpO₂ value
< 40 mmHg indicate?**

Peripheral Arterial Disease (PAD)?

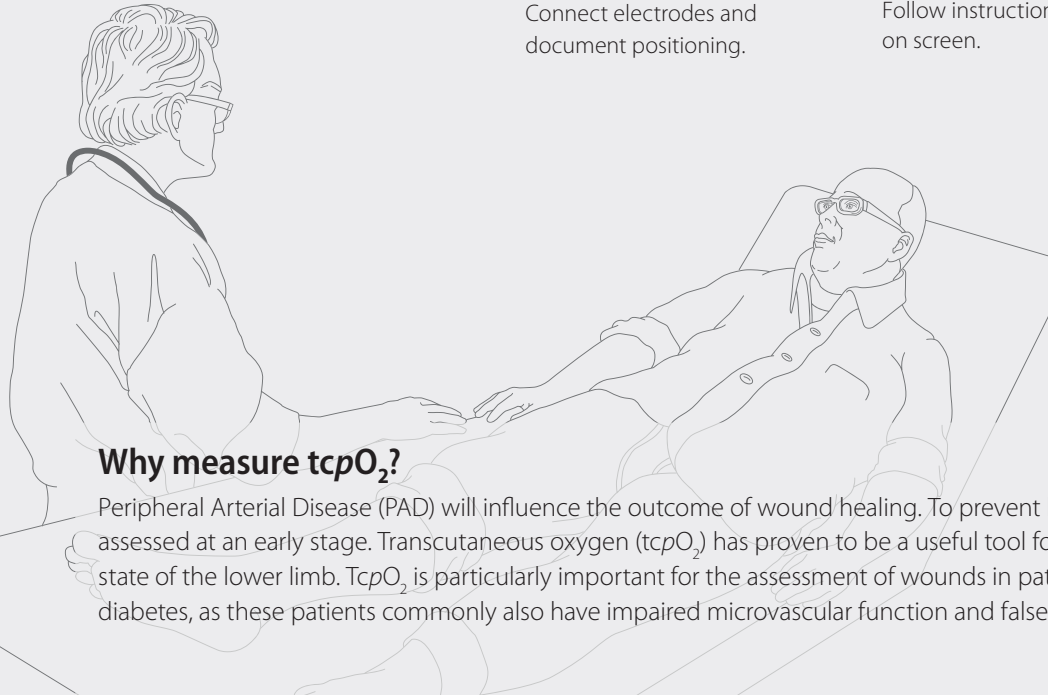
Capillary impairment?

Cardiopulmonary disease?

High tissue consumption of O₂ due to
infection/inflammation?

Why measure tcpO₂?

Peripheral Arterial Disease (PAD) will influence the outcome of wound healing. To prevent limb loss, the degree of ischemia has to be assessed at an early stage. Transcutaneous oxygen (tcpO₂) has proven to be a useful tool for this purpose as it reflects the metabolic state of the lower limb. TcpO₂ is particularly important for the assessment of wounds in patients with critical limb ischemia and/or diabetes, as these patients commonly also have impaired microvascular function and falsely elevated ABI values.



Extend with a provocation.

10 minutes O₂ challenge.
Right foot = 1 mmHg
Left foot = 103 mmHg

Conclusions of the examination

Right foot:

Low baseline value $tcpO_2$. No response to O₂ challenge. If no cardiopulmonary problems are present, PAD is the most probably cause.

» Right foot critical limb ischemia with severely affected microcirculation.

Left foot:

Borderline $tcpO_2$ baseline value. Good response to O₂ challenge.

» Beneficial conditions for spontaneous healing.



PeriFlux 6000 | $tcpO_2$ made intelligent

Microvascular assessment

OPERATOR: Anna Blauer DATE: 2012-09-14 TIME: 09:29

PATIENT INFORMATION

NAME: John Smith
ID: 1234
DATE OF BIRTH: 1940-05-20
GENDER: Male

ANAMNESIS

DIABETES: Yes
INSULINE DEPENDANT: No
DIABETES SINCE: 1998
HYPERTENSION: Yes
MEDICALLY REGULATED: No

LEFT WOUNDS: Yes
RIGHT WOUNDS: Yes

WALKING PAIN: Yes
REST PAIN: Yes

NEUROPATHY: Yes
BLOOD PRESSURE: Yes
SMOKER: Yes

PALPABLE PULSES: No

Wound 6 months

TCOM RESULTS

NAME	BL (mmHg)	O ₂ (mmHg)
1. Site 1	1	1
2. Site 2	2	2
3. Site 3	3	3
4. Site 4	4	4
5. Site 5	38	38
6. Site 6	45	45
7. Site 7	47	47
8. Site 8	43	43
	49	49

Recorded using PeriFlux 6000



Compact and elegant solution

PeriFlux 6000 is operated using a touch screen interface. It can be equipped with up to 8 channels of $tcpO_2$ allowing for accurate mapping of the extremity. It is small, portable and can be mounted on an arm or stand.

HIPAA compliant

For patient security the PeriFlux 6000 is HIPAA compliant.

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Step- by-step-instructions

The user is guided throughout the procedure by simple instructions displayed on the screen. Different tests may be implemented, including exam room and in-chamber measurements.

Billing and Reimbursement

Use CPT codes 93922 and 93923 for billing and reimbursement of $tcpO_2$ measurements.



Automatic report generator

All test results, including the site positioning photo, are displayed in an automatically generated report that may be printed or exported as a PDF file. The report template can be customized according to the requirements of the user.

References

1. European Society for Vascular Surgery, CLI Guideline Committee Guidelines for Critical Limb Ischaemia and Diabetic Foot, 2011
2. Transcutaneous Oximetry in Clinical Practice: Consensus statements from an expert panel based on evidence. Fife, Smart, Sheffield, Hopf, Hawkins and Clarke. UHM 2009, Vol. 36, No. 1.



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