

Methemoglobin

SpMet

Noninvasive > Continuous

Methemoglobin (SpMet®) is a breakthrough measurement that allows clinicians to noninvasively and immediately detect elevated levels of methemoglobin in the blood—facilitating earlier diagnosis and treatment for patients with methemoglobinemia, a dangerous but underdiagnosed and undertreated condition.



- > Methemoglobinemia is an important clinical condition, more common than generally believed, and is linked to increased morbidity and mortality.¹
- > Many procedures and drugs commonly used in clinical practice—including iNO therapy in neonates—have been documented as contributing to induced methemoglobinemia.¹
- > Methemoglobinemia occurs across all care areas and patient populations yet is often unrecognized and misdiagnosed.¹



Select drugs documented to contribute to Methemoglobinemia

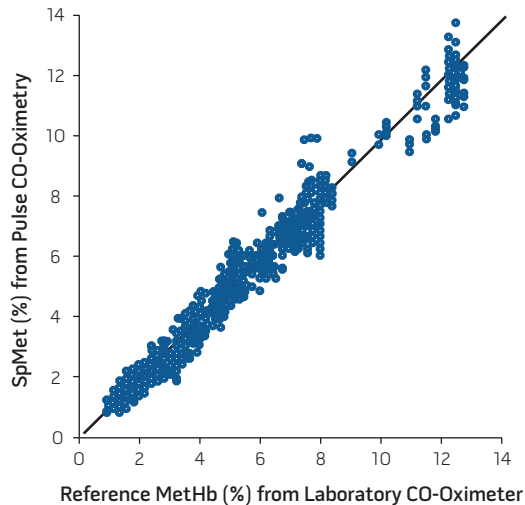
Benzocaine	Cetacaine	Chloroquine	Dapsone
EMLA topical	Flutamide	Lidocaine	Metoclopramide
Nitrates	Nitric oxide	Nitroglycerin	Nitroprusside
Nitrous oxide	Phenazopyridine (Pyridium)	Prilocaine	Primaquine
Riluzole	Silver Nitrate	Sodium Nitrate	Sulfonamides

“Acquired Methemoglobinemia is fairly common and causes morbidity and mortality in both the inpatient and outpatient settings. Acquired methemoglobinemia is often unrecognized and thus untreated.”

DR. RACHEL ASH BERNAL
and other researchers at Johns Hopkins Hospital



CLINICAL ACCURACY



Proven accuracy compared to invasive laboratory methods*

- > In comparisons of SpHb readings with invasive methemoglobin (MetHb) measurements taken at the same time and analyzed by a laboratory CO-Oximeter, SpMet was validated in the range of 1-15% with an accuracy of $\pm 1\%$ at 1 standard deviation.*

* Masimo FDA Submission Data

TECHNOLOGY PLATFORM



Masimo rainbow SET[®] is a noninvasive monitoring platform enabling the assessment of multiple blood constituents and physiologic parameters that previously required invasive or complicated procedures, in addition to providing Masimo SET[®] Measure-through Motion and Low Perfusion pulse oximetry.

- > Acoustic Respiration Rate (RRa[™])
- > Carboxyhemoglobin (SpCO[®])
- > Methemoglobin (SpMet[®])
- > Oxygen Content (SpOC[™])
- > Pleth Variability Index (PVI[®])
- > Total Hemoglobin (SpHb[®])
- > Oxygen Saturation (SpO₂)
- > Pulse Rate (PR)
- > Perfusion Index (PI)

The upgradeable rainbow SET[®] platform lets you choose the rainbow[®] measurements that are right for you now and be confident that your investment in patient safety won't become obsolete tomorrow.

REFERENCES

¹ Ash-Bernal R, Wise R, Wright SM. Acquired Methemoglobinemia. A Retrospective Series of 138 Cases at 2 Teaching Hospitals. *Medicine* 2004; 83: 265-272.