

# Pulse Oximeter

**Pulse oximetry** is a [noninvasive](#) method for monitoring a person's [oxygen saturation](#). Peripheral oxygen saturation ( $\text{SpO}_2$ ) readings are typically within 2% accuracy (within 4% accuracy in the worst 5% of cases) of the more desirable (and invasive) reading of arterial oxygen saturation ( $\text{SaO}_2$ ) from [arterial blood gas](#) analysis.<sup>[1]</sup> But the two are correlated well enough that the safe, convenient, noninvasive, inexpensive pulse oximetry method is valuable for measuring oxygen saturation in [clinical](#) use.