

Supplementary Table S1. Validity statistics by condition.

	Fenix Anterior Normoxia	Criterion Anterior Normoxia	Fenix Posterior Normoxia	Criterion Posterior Normoxia	Fenix Anterior Hypoxia	Criterion Anterior Hypoxia	Fenix Posterior Hypoxia	Criterion Posterior Hypoxia
Mean (%)	95.67%	97.10%	95.74%	97.05%	94.90%	88.00%	95.18%	85.90%
Standard Deviation	2.35%	1.74%	1.41%	2.24%	0.32%	8.29%	1.66%	9.55%
MAPE		1.80%		2.95%		6.93%		6.92%
Pearson Correlation		0.44		-0.47		0.00		0.29
Lin's Concordance		0.37		-0.33		0.00		0.10
Bland-Altman Bias		-1.08 (-2.53, 0.36)		-1.37 (-2.95, 0.22)		4.90 (0.56, 9.24)		4.36 (0.30, 8.43)
TOST Test (Upper)		0.003		< 0.001		0.82		0.76
TOST Test (Lower)		0.47		0.36		0.001		0.001