

**Summary of Peer-Reviewed, Published in vivo Human Normals for NIRS and VLS Tissue Oximetry.**

<b>Site of <i>in vivo</i> Human Optical Measurement</b>	<b>Tissue Saturation (StO<sub>2</sub>%, Mean ± SD)</b>	<b>No. of Subjects (n)</b>	<b>Normal Range (Mean ± 2 SD)</b>	<b>Reference Cited</b>
<u>Skin</u>				
Forearm*	72% ± 12%	(3)	[48-96%]	1
Arm, Foot, Head	73% ± 4%	(20)	[65-81%]	2
Various	71% ± 10%	(3)	[51-91%]	3
<u>Brain (transcranial)</u>				
Adult	70% ± --%	(- - -)	[60-80%]	4
Adult	65% ± 5%	(10)	[55-75%]	5
Adult	62% ± 6%	(10)	[50-74%]	5
Adult	67% ± 9%	(103)	[59-85%]	6
Adult	68% ± --%	(54)	[54-88%]	7
Adult	63% ± 9%	(84)	[46-80%]	8
Adult	70% ± 7%	(38)	[54-84%]	9
Child (<7 yrs)	68% ± 10%	(19)	[48-88%]	10
<u>Muscle</u>				
Brachioradialis	74% ± 6%	(10)	[62-86%]	11
Leg, various	69% ± 5%	(6)	[59-79%]	12
Forearm	76% ± 8%	(7)	[60-92%]	13
Gastrocnemius	68% ± 9%	(42)	[50-86%]	14
Gastrocnemius	69% ± 6%	(17)	[57-81%]	15
<u>Breast</u>				
Adult women	74% ± 8%	(3)	[58-90%]	16,17
Adult women	69% ± 6%	(14)	[57-81%]	18
Adult women	68% ± 8%	(52)	[50-84%]	19
<u>Liver</u>				
Children	59% ± 8%	(40)	[43-75%]	20
Infants, before feed	57% ± 8%	(25)	[42-75%]	21
Infants, after feed	60% ± 6%	(25)	[48-72%]	21
<u>All Sites** (except liver)</u>				
Mean Saturation	69%	(495)		
Median Saturation	69%	(495)		

\* VLS measures

\*\* Excluding liver, which receives part of its dual supply as venous blood

This table was assembled from published normal quantitative saturation values obtained by other groups in vivo in human subjects, including only peer-reviewed data from medical journals listed in Index Medicus, or papers in which the data were judged to be obtained in well-controlled study conditions. Most measurements are NIRS; VLS measurements are marked by an asterisk. No model or animal data were included. The overall mean and median values weight each publication equally.

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