Cardiopulmonary Demand Factors: Document These!!

External Related Factors: gravity, thermal/humidity, emotional stress, sleep, pain, etc.

Internal Related Factors: infection/fever, healing process, fluid balance, hemoglobin, ingestion

status, PVD, movement efficiency, muscular work, age, and

tissue extraction of O2.

Relationship Between Age, PaO2, and Saturation

PaO2 (mmHg)	SaO2 (%)
95-103	97%
91-99	97%
87-95	95-97%
83-91	94-97%
80	94%
78-86	93-95%
74-82	93-94%
70	92%
70-78	92-93%
66-74	91-93%
62-70	90-92%
60	90%
50*	85%
45	80%
40	75%
	95-103 91-99 87-95 83-91 80 78-86 74-82 70 70-78 66-74 62-70 60 50*

ref: adapted from

Burton, G, Gee. G., and Hodgkin, J.E.: Respiratory Care, a Guide to Clinical Practice. Philadelphia, 1977, J.B. Lippincott Co.

Wilkins, R.L., et al. Clinical Assessment in Respiratory Care. The C.V. Mosby Co., St. Louis, 1985.

Clinical Application:

^{*} titrate exercise to maintain at least: 85% (pO2=50) in patients with a good heart 88% (pO2=55) in patients with a bad heart