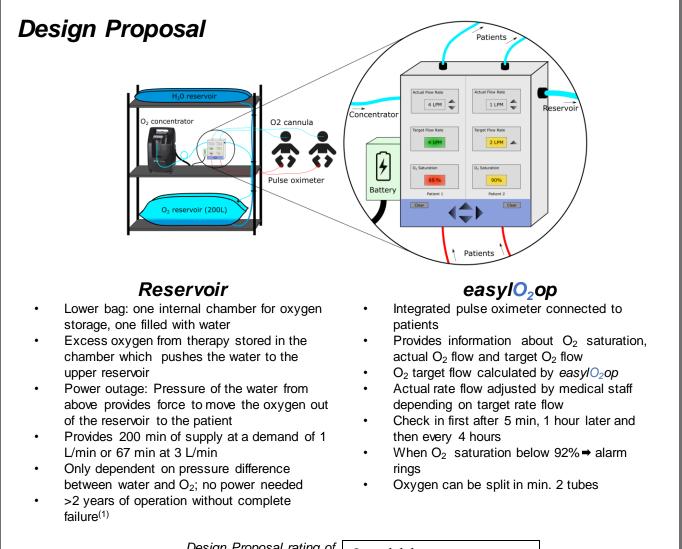
Design Challenge: O₂ Concentrator

Drive Device

- Small, compact 10L concentrator
- Filters nitrogen from ambient air and produces concentrated oxygen
- Low operating costs
- Needs power supply ⇒O₂ cylinders used to overcome power outage (higher operating costs)⁽¹⁾
- Extensive training needed for appropriate use

Device rating of appropriateness in low-resource settings:





Design Proposal rating of appropriateness in low-resource settings: Durability:

Cost: **\$ \$ \$** Effectiveness: *** * * *** Durability: *** * * *** Usage: *** * * ***

(1) Rassool, R. P., Sobott, B. A., Peake, D. J., Mutetire, B. S., Moschovis, P. P., & Black, J. F. (2017). A low-pressure oxygen storage system for oxygen supply in low-resource settings. Respiratory Care, 62(12), 1582–1587. https://doi.org/10.4187/respcare.05532