

CPR
PulseMate

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ME 380

Low-Cost Mechanical CPR Device for Bystander Use

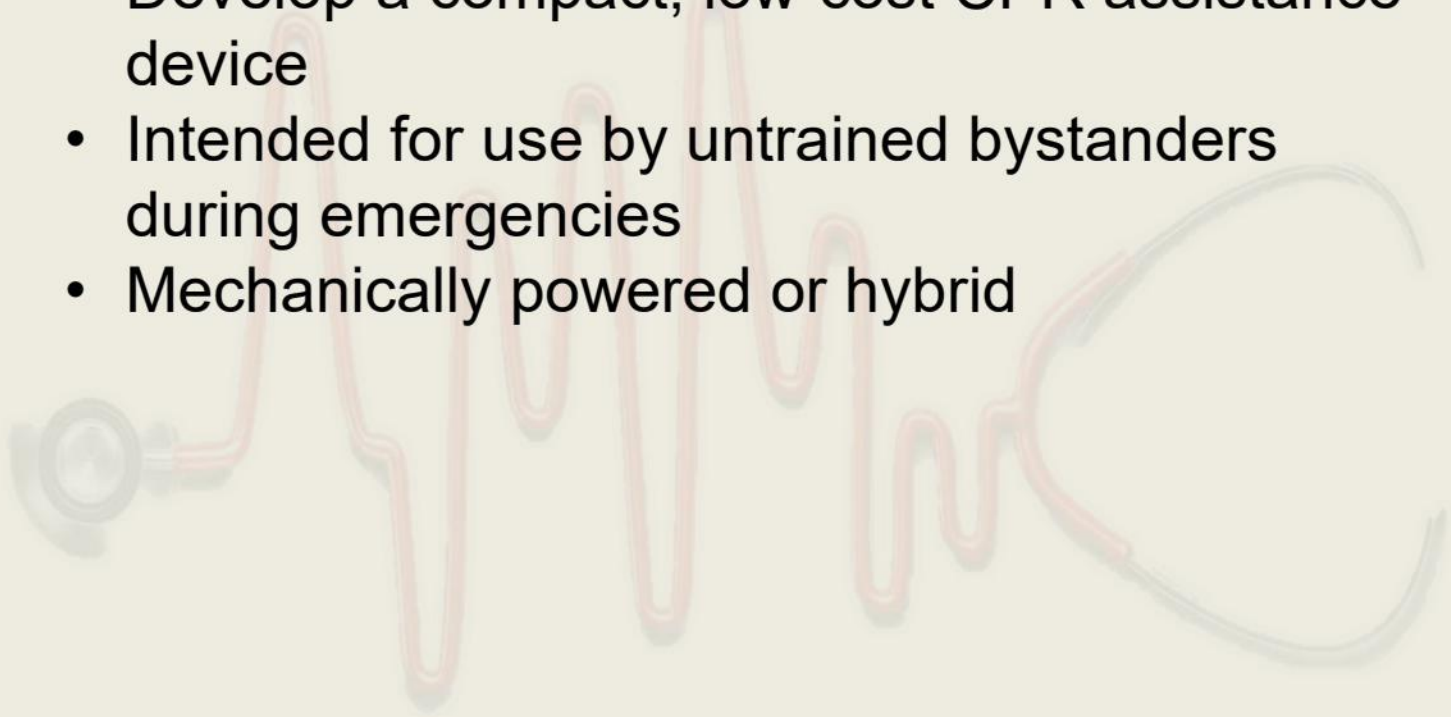
Problem Market Need



- Sudden cardiac arrest can happen anywhere-home, school, gym, public spaces
- High-quality CPR is critical but difficult to perform correctly
- Most bystanders lack training or confidence to deliver effective CPR
- Manual CPR is tiring and inconsistent, especially over time
- Existing CPR devices are expensive, bulky, and not accessible for public use

Proposed Project

- Develop a compact, low-cost CPR assistance device
- Intended for use by untrained bystanders during emergencies
- Mechanically powered or hybrid



Existing Product: LUCAS 3

- Designed only for EMS and hospital use only
- Costs \$10k-\$20k not affordable for school, home, or gym
- Requires electricity or batteries to function
- Bulky and too complex for untrained bystanders

