

Healthcare: Devices

SANJIVANI: Compression Only Life Support Assist Gadget for Resuscitation of Cardiac Arrest victim by Common men

APPLICATION

The device can be used for victims of cardiac arrest due to Heart attack, Electrocutation, Lightening injury, Drowning, Choking / food& drug allergies, Suffocation by fire / Chemical smoke

COMPANY NAME	TECHNOLOGY READINESS LEVEL (TRL)	INTELLECTUAL PROPERTY
Inofinity Research and Development Pvt Ltd	TRL: 6 (commercial grade PCB made. Proceeding for injection molding)	Indian Patent Application No. 202031025786
FOUNDER'S NAME		
Ashok Kumar Badamali		

PROBLEM ADDRESSED

There have been many cases with Sudden cardiac arrest (SCA) – Sudden cessation of cardiac mechanical activity with hemodynamic collapse across the world. 88% of SCA is at home and the survival rate is less than 10 % which doubles or triples if cardiopulmonary resuscitation (CPR) is initiated early by a bystander or EMS. The EMS service density, traffic congestion and large population in India are the hindrance for early CPR. Due to which the Victims brain suffers irreversible damage after 6 minutes of cardiac arrest precisely.

ABOUT THE TECHNOLOGY

Our device is an ergonomically designed handheld gadget with audio visual feedback in regional Indian language facilitating common men in providing high quality chest compression to victims of cardiac arrest before arrival of emergency medical team, to save a life. The audio effects of the device includes “ Good Job, Low rate & No recoil” considering the rate of compression 100/ min, depth 5 cm and complete recoil according to American Heart Association Basic Life Support Guidelines-(BLS- 2020). The metronome of 100/min rate facilitates in giving compressions at desire rate. Ergonomically design makes hand-bone and arm bones parallel instead of 90 degree and Triceps muscle comes into action unlike manual CPR.

FUNDS RAISED/ACHIEVEMENTS

- DST NIDHI PRAYAS worth INR 7 Lakhs
- BIRAC BIG Grant INR 50 lakhs
- Start Up Odisha Product Development Grant worth INR 16 Lakhs
- INR 25 lakhs from Pontaq Ventures

PRODUCT IMAGE



USP

- Handheld gadget for assisting in CPR with audio visual feedback in multiple regional Indian language option
- Ergonomic design for high quality chest compressions
- Wider diameter of upper circle prevents bending of elbow & loss of vector force.
- Audio Visual feedback by 3 LED (Good Job, Low rate, No Recoil).
- Metronome at 100/min to guide the rate of compression.
- Intermittent audio feedback in selected Indian language.
- Cost-effective. Future communication Ecosystem Component.

END USERS/CUSTOMERS

- The end users includes Common men (2%) Indians, Apartments – (65000), Ambulances – (24000), Hotels/malls/Community Centers, Bus Stop/railway station/ airport (3000 +8000 +449), Hospitals, School, college, university