

CAHOTECH 2020 Hospital Innovation Award Meenakshi Hospital, Thanjavur, Tamilnadu

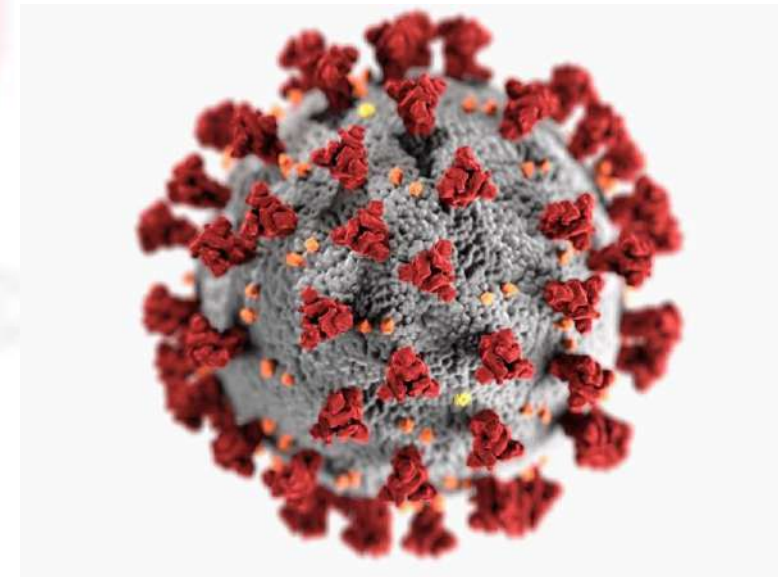


“MPBS”
Mobile Paired
Bluetooth
Stethoscope



What drives for MPBS?

- The deadly COVID 19 virus quickly spreads through the close contact
- High risk of infections through the standard stethoscope
- Social distancing difficulties during consultations
- Limitations of electronic stethoscope
- Cost and easy to operate



MATERIALS REQUIRED

1. Bluetooth
2. Chest piece of stethoscope
3. Mobile with Bluetooth access
4. SIM card

TEAM INVOLVED

1. Chief Cardiologist
2. Critical care consultants
3. Biomedical Engineers
4. Nursing team



Chest piece of steth



Bluetooth



Mobile with SIM card

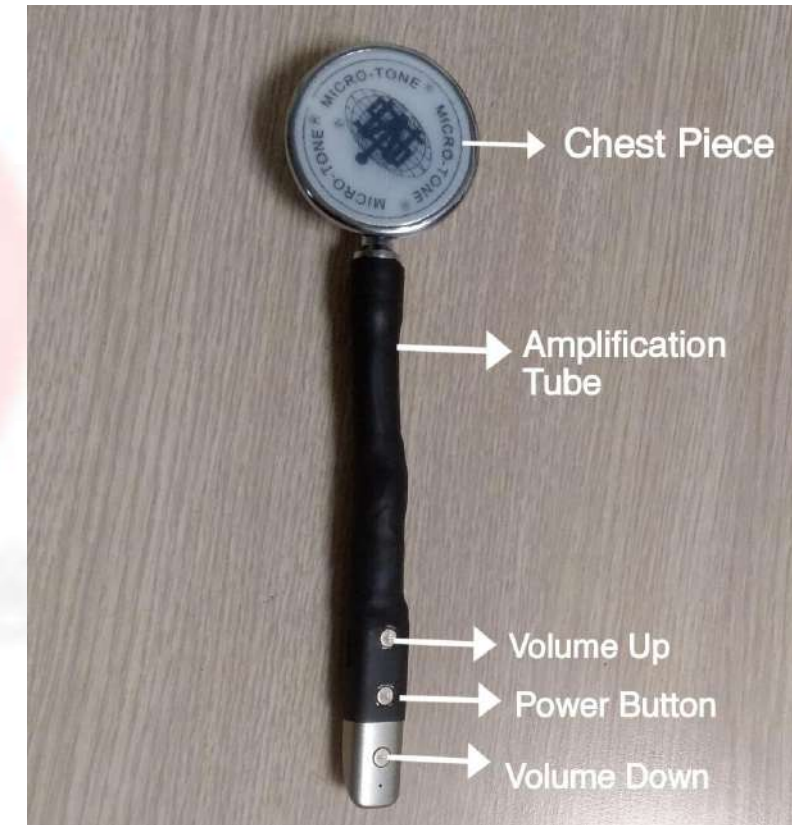
Making of MPBS



- Traditional Bluetooth devices without speakers. Mike inside Bluetooth device kept outside
- Normal Stethoscope's chest piece, Bell, Diaphragm and tubing
- Bluetooth mike kept inside Stethoscope tubing and sealed completely
- Bluetooth Stethoscope paired with Mobile through Bluetooth
- Bluetooth Stethoscope-LED indicator, power on/off switch, volume control switches

Making of MPBS

- Power switch on and hold for 3 minutes to pair with mobile and LED indicator blinks
- MPBS chest piece will be placed in patients' chest with paired mobile in one place
- Consultant can call to paired mobile number - select Bluetooth option to hear heart sounds of patients from distance / anywhere
- Recording facility for future evaluations



Benefits



- Alleviate fear from patients and Consultants by maintaining social distance
- Portable and easy to operate in any healthcare settings
- Operated up to 10m radius away from the mobile
- Easy charging options with micro USB charger
- 20 General Practitioners in and around Thanjavur received



USP- CAUSE

- Cost effective
- Accessibility
- User friendly
- Simple design
- Easy to replicate



A Baby step towards.....



Thank You..!

**For more details contact
7373799855, 7402605565**