

Telemedicine Society of India Maha. Chapter & MGM UHS

Interactive, Practical &
useful Academic session



CME –“Telemedicine –In Covid 19 Pandemic”

Critical care & Peripheral connected devices in Post Covid 19 Management.

Host- MGM UHS Navi Mumbai /Telemedicine Society of India -Mahartashtra TSI MH

- 1. Context setting-Introduction- Dr S.V.kulkarni. 5 mins . -5.05
- 2. Inauguration-At hands of Dr. Sudhir Kadam Ex.Vc-MGM UHS 5- min 5-15
- 3. Welcome address VC MGM UHS- Dr. Shashank D. Dalvi -05-min. 5-20
- 4. Guest Of Honour -API President -Dr.Kamalesh Tiwari-3 Mins
- 5. Guest of honour- Dean Indian college of Physicians- Dr.Rajesh Upadhuay -3 min-5-25
- 6. Presidential key note Adress TSI Col.Dr Ashvini Goel 20 minutes 5-30
- “Relevance of TM in Covid Pandemic”
- 7. “TM Need of hour – An opportunity in Calamity” -Dr.BS Ratta 15min. 5.50
- Past President & Patron of TSI Maharashtra ,Ruby hall clinic ,Pune
- 8. “TM in ICU management -Our MGM Experience-“15 minutes- Dr.Sagar Sinha-6.05
- 9. “Connected devices In Telemedicine Post Covid “- Dr. SV Kulkarni 15 minutes with demo & inputs from Manish-.com, Mr.Ketan Apte Aptmedicals.com-6.20 PM
- 10. Future of TM-QA- interactions -Summary ,audience participation 15-min 6.40
- 11. Vote of thanks Dr. G. S. Narshetty Dean, MGM-UHS Navi Mumbai -5minutes.

Disclaimer

- Declaration: Nothing to declare in form of indirect or direct funding
- Source of Support: Nil
- Conflict of Interest: Nil
- Material: Apps displayed have been chosen by merit and are freely accessible to all
- Choice: Not endorsing any hardware or software solution
- Education: Please do not take photos or notes, copies can be provided at request
- Sharing: Feel free to share, do acknowledge us!



Why do we need technology?

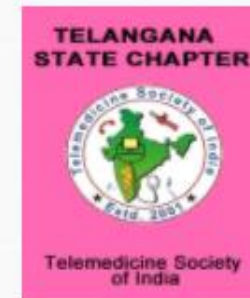
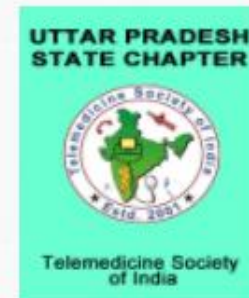
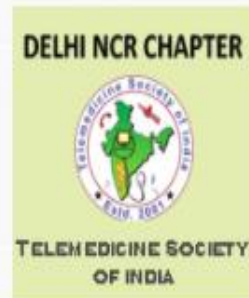
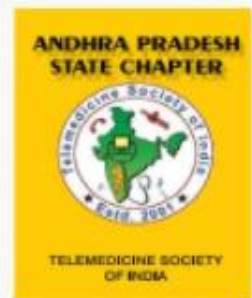
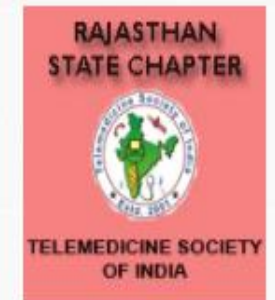
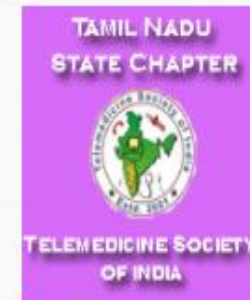
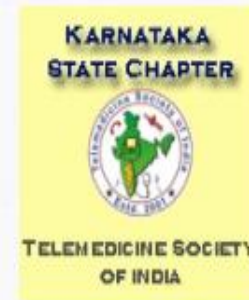
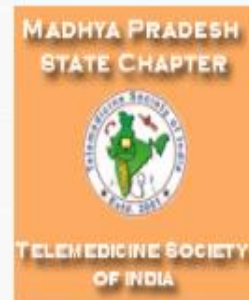
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|------------------|---------------------------|
| 1. Quick: | One-click |
| 2. Data sorting: | Easy-planning |
| 3. Pace: | Repetitive jobs faster |
| 4. 'Ct all': | Poly-pharmacy era |
| 5. Ease: | Minimal learning curve |
| 6. Empowerment: | Allied healthcare staff |
| 7. Systematic: | Own rules of war for work |
| 8. Leisure: | Learn at your own time |
| 9. Opportunity: | Learn from Gen-Ex |
| 10. Future: | The world is yours |

The New Normal Boon-intra & Post Covid

**"TELEMEDICINE PROVIDES
HEALTHCARE WHERE THERE IS
NONE AND
IMPROVES THE HEALTH CARE
WHERE THERE IS SOME"**

TSI –Use & adopt Technology -<https://tsi.org.in/pdf/Membership.pdf>,
[Join Telemedicine Society of India https://tsi.org.in](https://tsi.org.in)

TSI State Chapters





MGM INSTITUTE OF HEALTH SCIENCES

(DEEMED UNIVERSITY u/s of 3 UGC Act, 1956)

Accredited by NAAC with "A" Grade

Dr.Sudhir Kadam Ex VC



Dr.Shashank Dalvi VC MGM UHS



Guests of Honor- From API & ICP

Dr.Kamalesh Tewary –President API



Dr.Rajesh Upadhyay Dean ICP



CV Dr.Ashvini goel – Introduced by Dr.B.S.Ratta



Curriculum Vitae

DR. BHAGWANT SINGH RATTA

**M.B.B.S., M.S. General Surgery,
Dip. Paediatric Surgery, London, F.I.C.S., F.A.I.S,
Dept. of Paediatric Surgery, Ruby Hall Clinic, Pune.**

- Dr. B.S. Ratta is a trained Paediatric Surgeon/ Urologist from **KEM, Mumbai,** and **Great Ormond Street Children's Hospital, London.**
- He did his Fellowship from Institute of Child Health, London and Texas Children's Hospital, Houston, U.S.A.
- He did his Endoscopic training in Hong Kong and Germany.
- He has worked in Africa and Middle East.
- He is currently practicing in Ruby Hall Clinic, Pune since the last 30 years.
- His field of specialty is Endoscopic, Reconstructive and Robotic Urology in children.
- He has many publications in peer reviewed International Journals.
- He has been active in the field of Telemedicine for the past 15 years and organized various International meets and Telemedicons .
- He is Past President of TSI , IAeHC , Rotary CLUB
- He is a Trustee with Connecting a suicide Prevention NGO and Director of a Healthtech Company.
- E-mail – bsratta05@gmail.com
- Phone - +91 9822078715



Dr Sagar Sinha

Consultant Intensivist & Physician

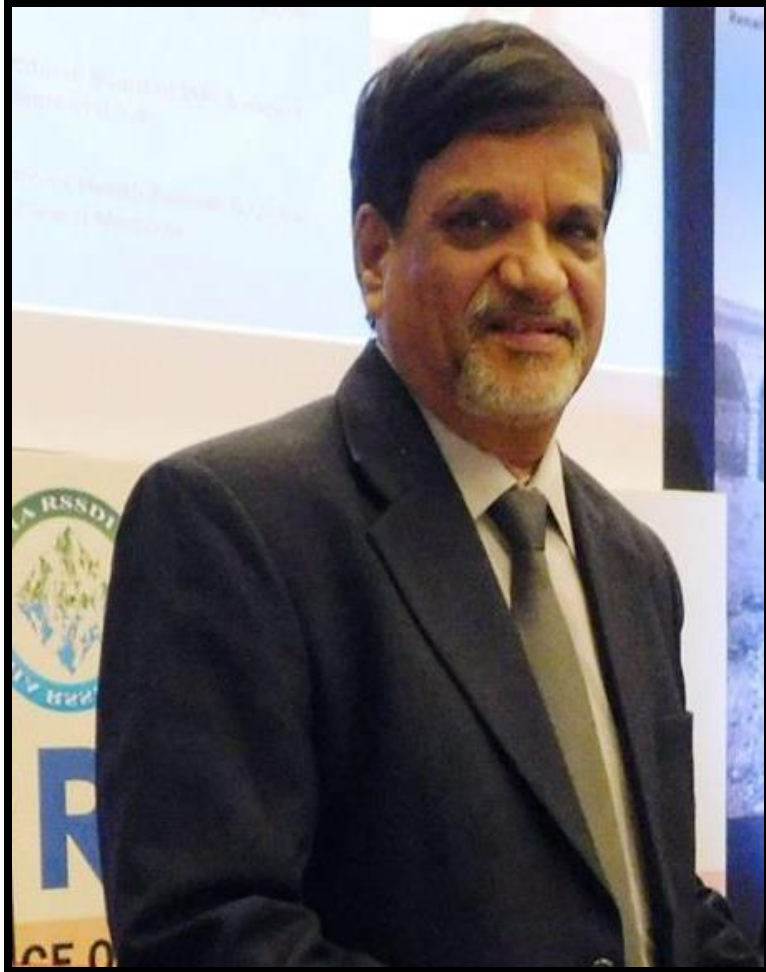
MBBS, MD (General Medicine), DNB (General Medicine),
FNB (Critical Care), EDIC (European Diploma in Intensive Care)

- **MGMIHS, Navi Mumbai**
 - **Head, Critical Care Unit** & Assistant Professor, Emergency Medicine, MGM Medical College
 - **Institute COVID Task Force:** In-charge, COVID ICU & HDU
 - **Clinical Administration:** Chapter Head (Hospital NABH Committee), Secretary (Code Blue/CPR Committee)
 - **Institutional Committee (Member):** Board of Studies (Nursing), Scientific Advisory Committee (Biomedical)
- **Chief Intensivist:** MGM Hospital & Research Centre, CBD Belapur, Navi Mumbai
- **Teaching Experience: 9 years**
- **Academic Output: 111 works**
 - 19 publications: 3 international, 7 national, 8 chapters, 1 book (as editor)
 - 35 collaborative presentations: 15 Posters & 20 Papers (4 as presenting author)
 - 57 faculty appearances at conferences (3 international, 33 national & 21 regional)
- **8 Awards:** 2 MBBS distinctions , 2 personal at conferences, 1 at institute level, 3 for collaborative works
- **Professional**
 - ICU Committee member: *Zonal Transplant Coordination Centre, Mumbai*
 - Jt. Treasurer & EC member: *Physicians Association of Navi Mumbai*
 - Trainer: AHA Instructor, Mechanical Ventilation, Technology in Medicine

Mobile: +91-9372277267
Email: drsagarsinha@gmail.com

Dr.S.V.Kulkarni

M.D-Med.,FICP,FACP,FDI-Navi Mumbai



- MBBS, MD Miraj,1982
- Practicing last 37 years
- Faculty in GMC Miraj, DYPMC Nerul,
- MGMUHS, ITM-
- Ex Member of Indian College of Physicians-ICP,API G Body
- Org. Sec. of MAPCON 2002, 2019 and APICON 2007 at Goa.
- Pioneer in Medical-IT & smartphone technology

Post Covid 19 –Common questions for all

- Am I Improving ?
- Are my Vitals OK
- How I can recognize it at earliest
- How I can connect with my
- Care Giver & Doctor.
- Without too much of Search Travel,waiting ,in time frame.
- Can I combine all together

Thermometers



Glucometer attachment for Smartphone



5/27/2021

20

Webinar rok-Su-SMS

Pulsoxymeters



AliveCor Kardia Mobile 6L EKG



6/30/2021

16

Doubts Unlimited & In series.!-Indian Set Up

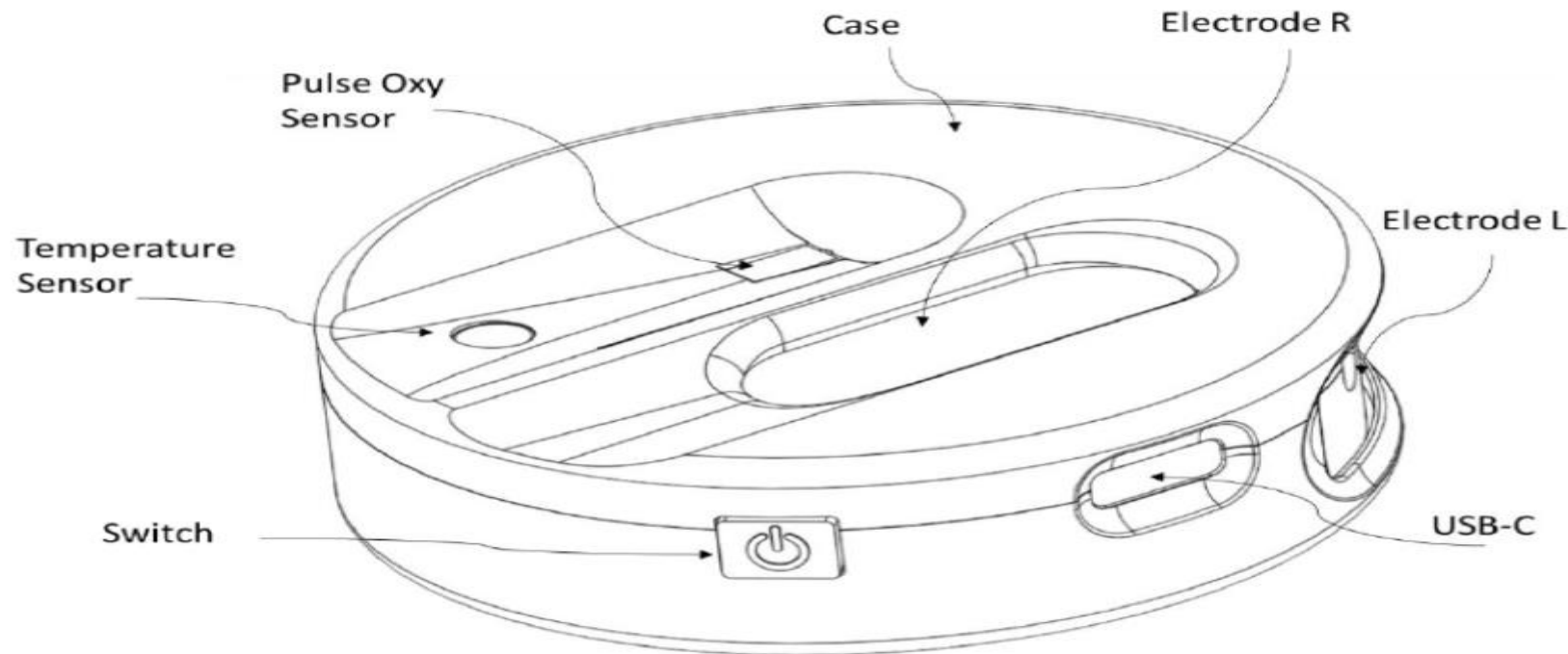
- Is the equipment standard.
- How to use it
- Any Demonstration video ?
- Technical support
- Maintainance
- Recurrent Cost-batteries ?
- Guaranty-warranty
- Replacement with better version



Heart Health Right at Your Fingertips-Avidhrt



AvidHRT is a Bluetooth Low Energy enabled device which measures EKG, Pulse Oximetry and Skin Temperature. AvidHRT has low power requirements, it is small (cylindrical with 53 mm diameter, 20 mm height) and low-cost device. It consists of a device (the main control unit) and three sensors EKG, pulse oximetry and skin temperature measurement (Figure 1).



Avidhrt Sense



The Solution



ECG Arrhythmia
Detection



Hypoxia
Detection



Temperature
Monitor



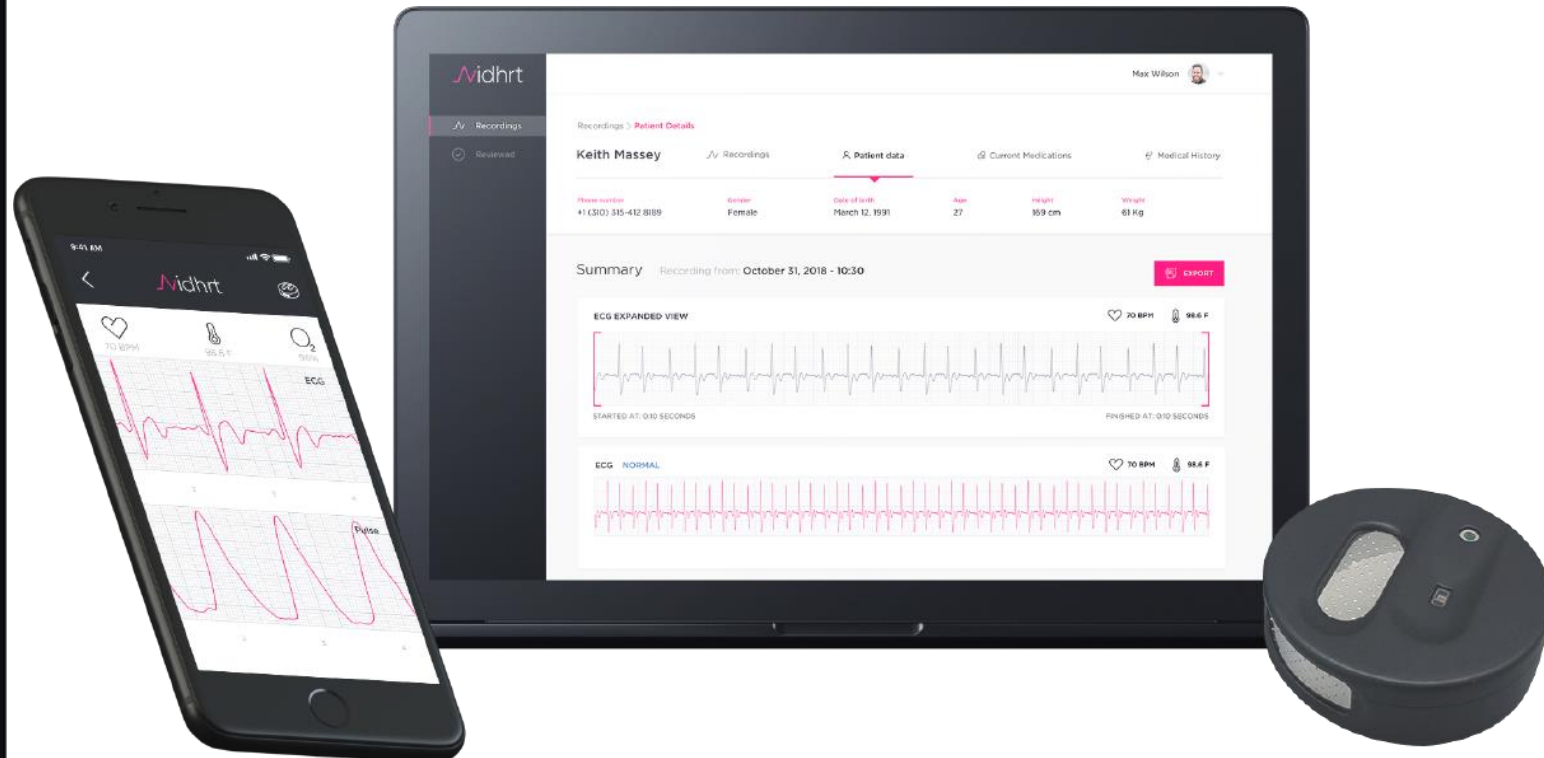
Connects with
any Device



Record, Track,
Store and Share

The handheld AI driven heart monitor capable of Single Lead ECG, Pulse Oximetry and Infrared Skin Temperature Monitoring.

Readings recorded are shareable with physicians.



www.avidhrt.com

The Arrhythmia

Atrial Fibrillation (AFib)

- The leading cardiac arrhythmia in the elderly
- Post Open Heart Surgery rate = 30%
- Post Ablation recurrence as high as 50%



The incidence of AFib increases sharply after 65 years and more than 10% of patients over 85 years have clinical AFib



Blood clots are the most common cause of stroke – Atrial Fibrillation (AFib) increases this risk 5X



AFib costs Americans \$33 billion each year



AFib can be episodic, making it difficult to detect with short term monitoring or at a doctor's office



80%

80% of strokes related to AFib are preventable if detected early



Every 4 minutes someone dies of a stroke in the US

The Benefits



Monitor your heart – confirm normal rhythm or detect AFib anytime, anywhere



Affordable – Avidhrt is the least expensive device of its kind on the market



Easy to use – no wires, patches or gels just hold the device in your hand and you're ready to go



Enhanced accuracy, heart rate and rhythm are confirmed by monitoring two data feeds – EKG and Pulse Oximetry

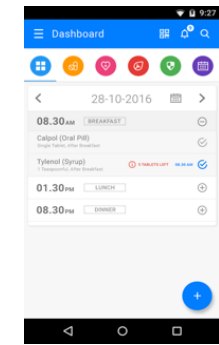
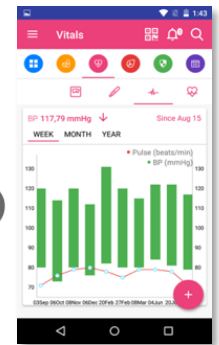


Get a second opinion through the Avidhrt partner network



FitKit – Overview

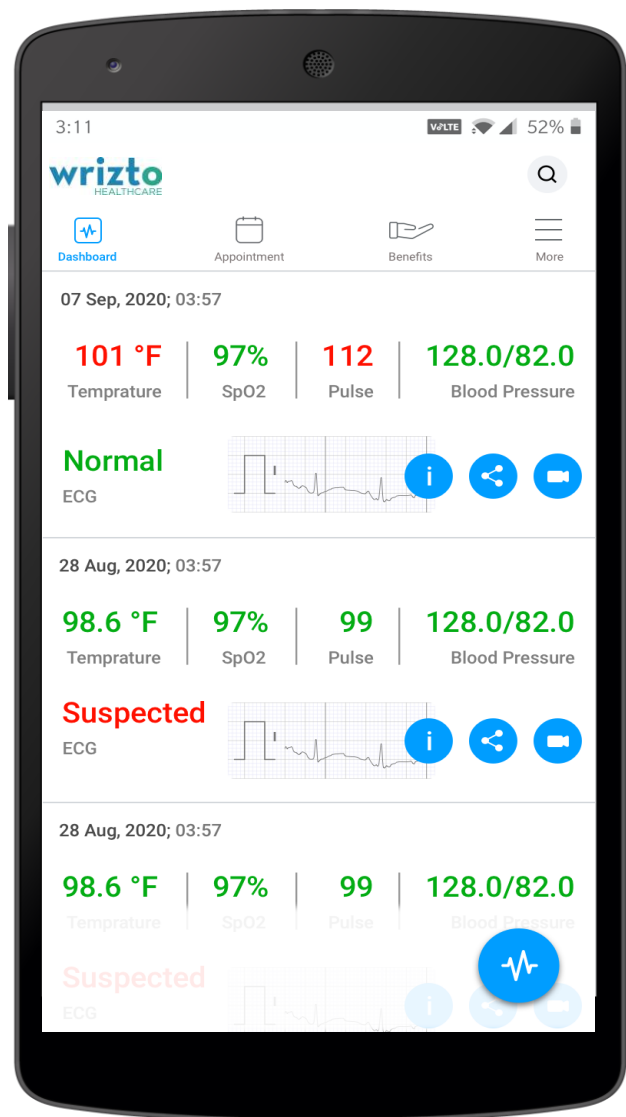
Vision is to simplify Personal Healthcare Management



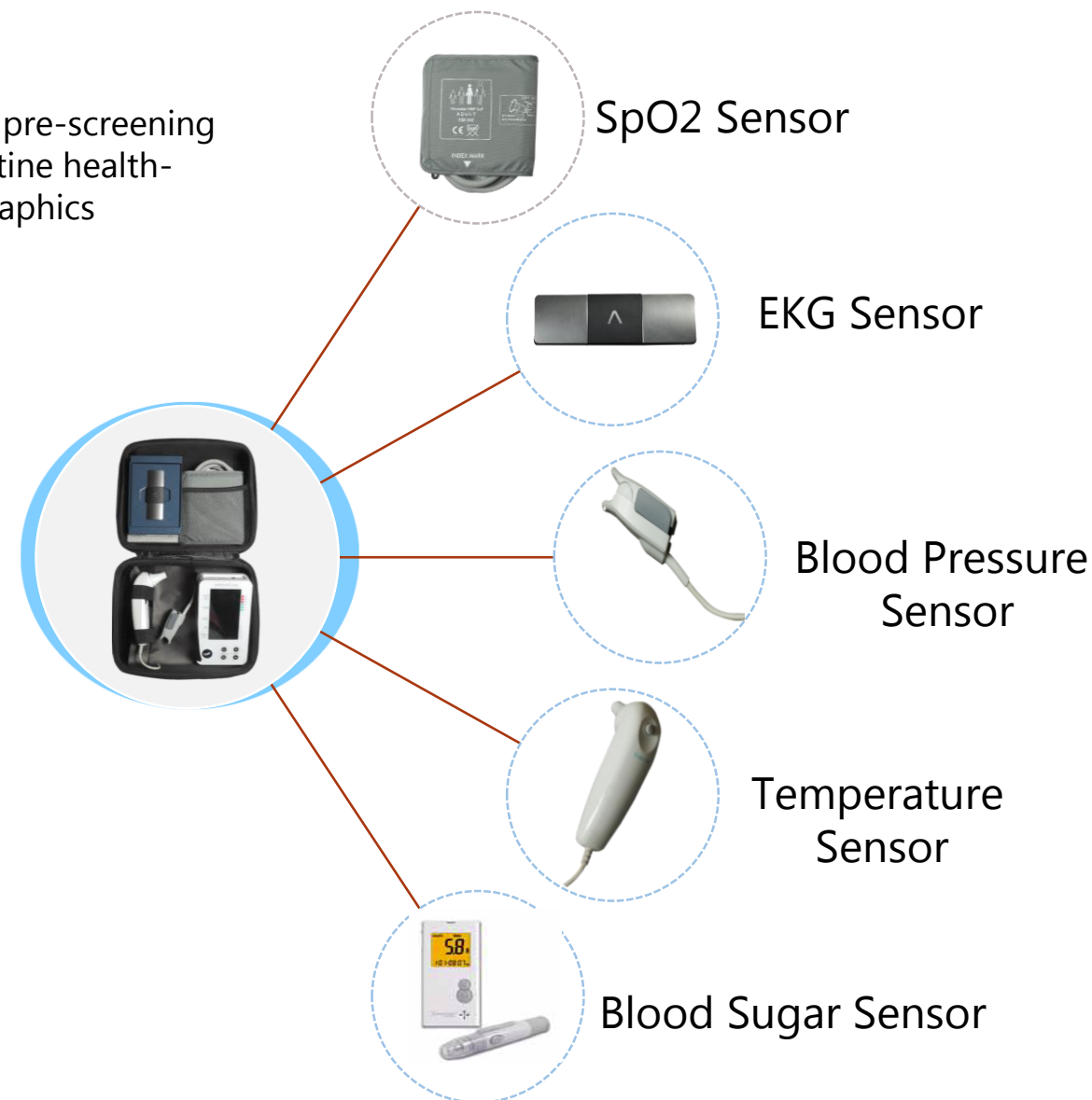
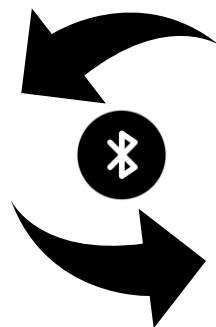
FitKit Personalized Health Management : Overview

Wrizto Confidential

02
1



FitKit, A unique personalized Vital pre-screening mobile Telecare system for routine health-checks across the demographics



FitKit Personalized Health Management : Ecosystem

Wrizto Confidential

02
2

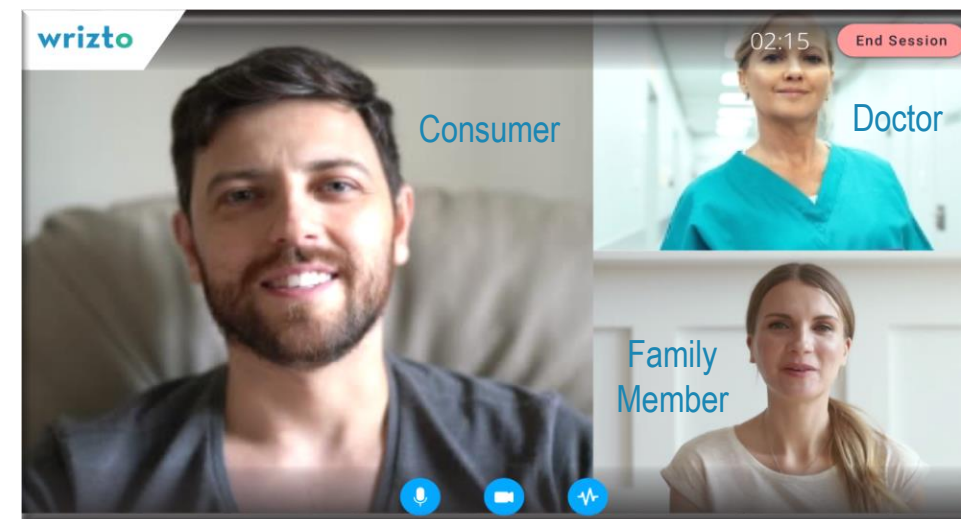
Wrizto Cloud
(Care-Continuum
Ecosystem)

End User

Mobile App (Android)
Appt, Video Consultation
Record share, Emergency
Health Record & history

Dr & Admin

Web App (Browser)
Registration, Appt
Video Consultation
Billing & MIS



The screenshot shows the 'My Patients' dashboard with a search bar and tabs for 'My Patients' and 'My Appointments'. The dashboard displays a list of patients with their vital signs and status.

Patient Name	Age	Sex	Blood Group	Phone Number	Temp	SpO2	Pulse	BP	ECG	Video Call
Willie Zaine	27	M	O+ve	+1 202 555 0121	101.0 °F ↑	90% →	123 ↑	123.0/85.0 →	●	☑ MORE
Angela Aames	33	F	AB+	+1 202 555 0113	98.2 °F →	97% →	111 ↑	128.0/82.0 →	●	☑ MORE
Jake Abel	50	M	B+	+1-202 555 0169	100.2 °F ↑	95% →	89 →	132.0/85.0 →	●	☑ MORE
Dorothy Abbott	48	F	O-ve	+1 202 555 0171	97.8 °F →	80% ↓	95 →	172.0/116.0 →	●	☑ MORE
Heather Clark	33	F	AB+	+1 202 555 0113	98.2 °F →	59% ↓	100 →	136.0/98.0 →	●	☑ MORE
Victor Pacheco	50	M	B+	+1-202 555 0169	98.0 °F →	90% →	92 →	127.0/81.0 →	●	☑ MORE
Jaclynn Bradley	48	F	O-ve	+1 202 555 0171	99.2 °F →	90% →	97 →	136.0/82.0 →	●	☑ MORE

FitKit Personalized Healthcare || Doctor - Consumer connectivity

02
3
Wrizto Confidential

The screenshot shows the 'wrizto' doctor application interface. At the top, there's a search bar and navigation tabs for 'My Patients' and 'My Appointments'. The main section is titled 'Preliminary-Diagnosis' with a dropdown for 'Select diagnosis category'. Below this are two expandable sections: 'Prescription' and 'Investigation'. The 'Prescription' section contains a table with medication details, and the 'Investigation' section contains a table with test results. There are also fields for 'Advice' and 'Referral For:'. At the bottom, there's a 'Revisit/Follow-Up' section with a dropdown for 'Revisit after' and a calendar icon.

Medication	Frequency	Instruction	Start - End Date
Crocin 250MG	1-1-1	After Food	30/11/2018 - 02/12/2018
Dolo 650MG	1-1-1	After Food	31/11/2018 - 02/12/2018

Investigation Name	Investigation Type	Result	Report Date
CBC	Advice	-	30/11/2018
Thyroid Profile	Report	Negative	30/11/2018

Advice: General advice

Referral For: Referral For

Revisit/Follow-Up: Revisit after [dropdown] OR [calendar icon]

Doctor Application

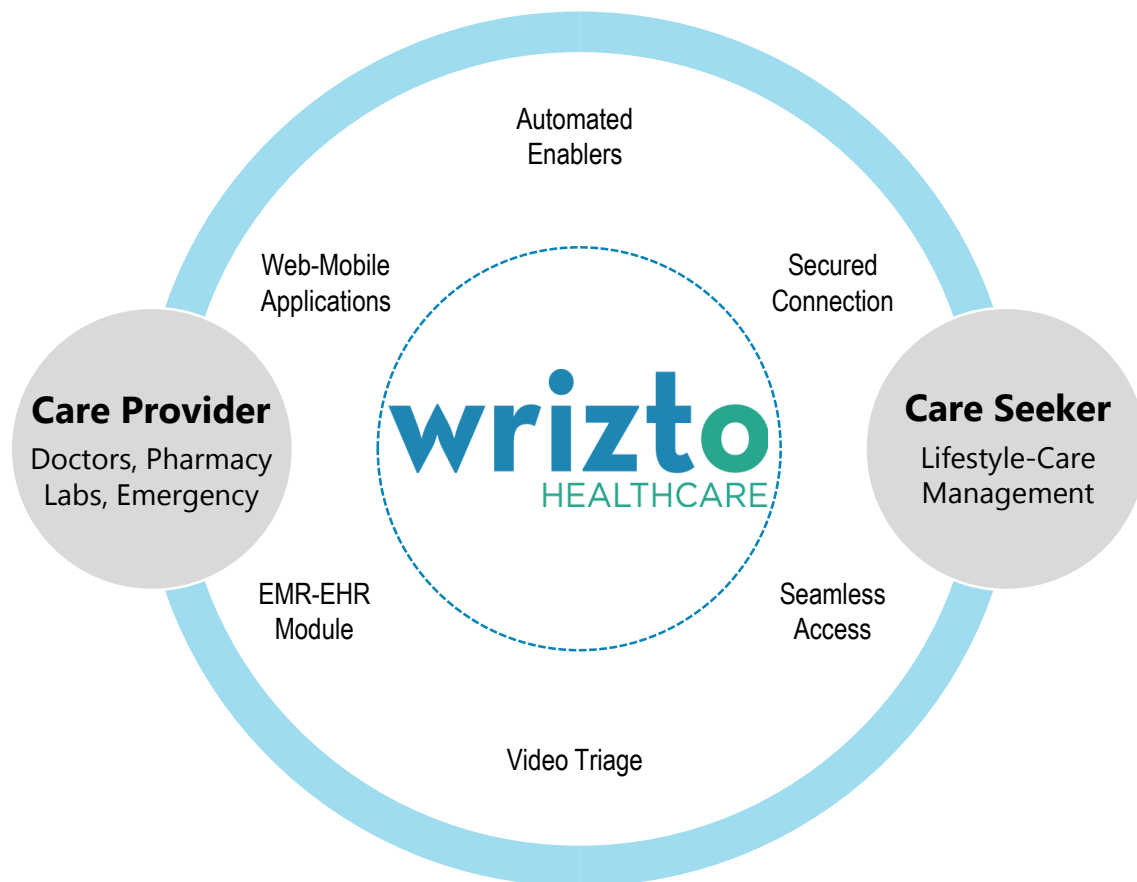
The first screenshot shows a calendar view for February with a grid of dates. Below the calendar, there are several health metrics displayed in a grid: SPO2 (100, 97, 100, 100), Temperature (97°F), BP (129 / <80), Pulse rate (100), Body Mass Index (27.78), and Fat (23.57). There is also an ECG Report section showing 'No irregularity found.' and a heart rate icon.

The second screenshot shows the 'Current location' as Banashankari. It lists upcoming appointments for Dr. Anna Baker (Heart surgeon/Specialist MBBS, MS - ENT) and Charles Estrada (Heart surgeon). The appointments are for video consultation and in-clinic visits, with dates and times listed. There are buttons for 'Upcoming', 'Completed', 'Cancelled', and 'Book again'.

Consumer Health Application

FitKit Personalized Healthcare || Features & Benefits

Wrizto Confidential



Personal-Vital Device

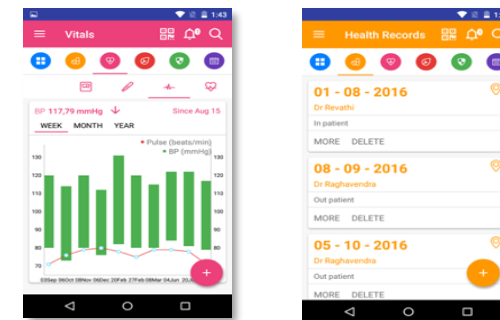


Personalized Vital Kit

- + FDA/CE Approved
- + Multiple vital capture
- + Threshold alerts

And more..

Patient-Health Assistant



Personal Health Profile

- + Medicine, Visit Alert
- + Vital Trends, Video Call
- + Disease Discovery

And more..

Thank you-QA-VoT

**Wrizto, Trusted Healthcare Ecosystem of
Choice**

reach@wrizto.com |
+91-876-243-8721

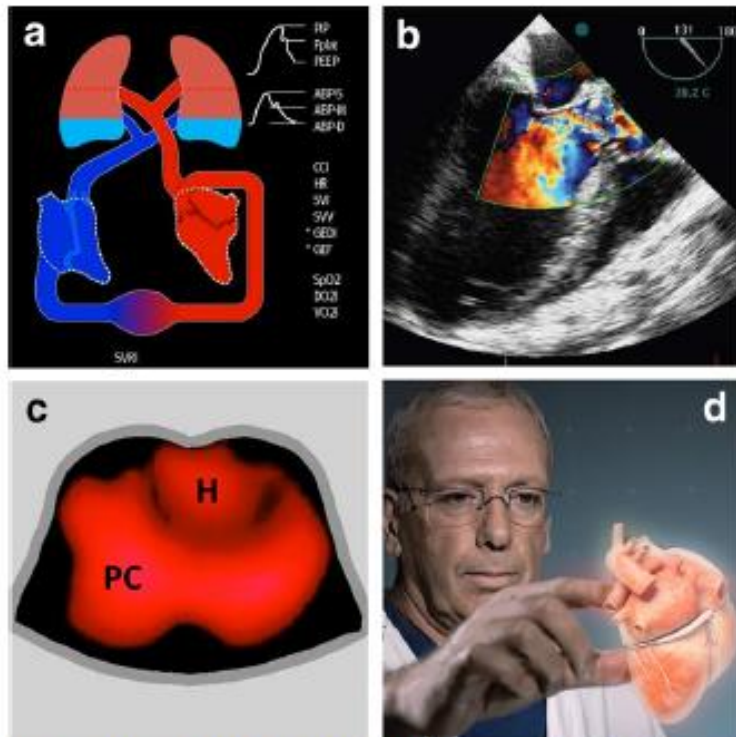


Fig. 2 Examples of bedside digital methods useful to "look" at the cardiopulmonary circulation. **a** Graphical display, HemoSight screen from Mindray with permission; **b** echocardiography Doppler, **c** electrical impedance tomography, *H* heart, *PC* pulmonary circulation, from Dixtal with permission; **d** digital holography, downloaded from Realviewimaging.com

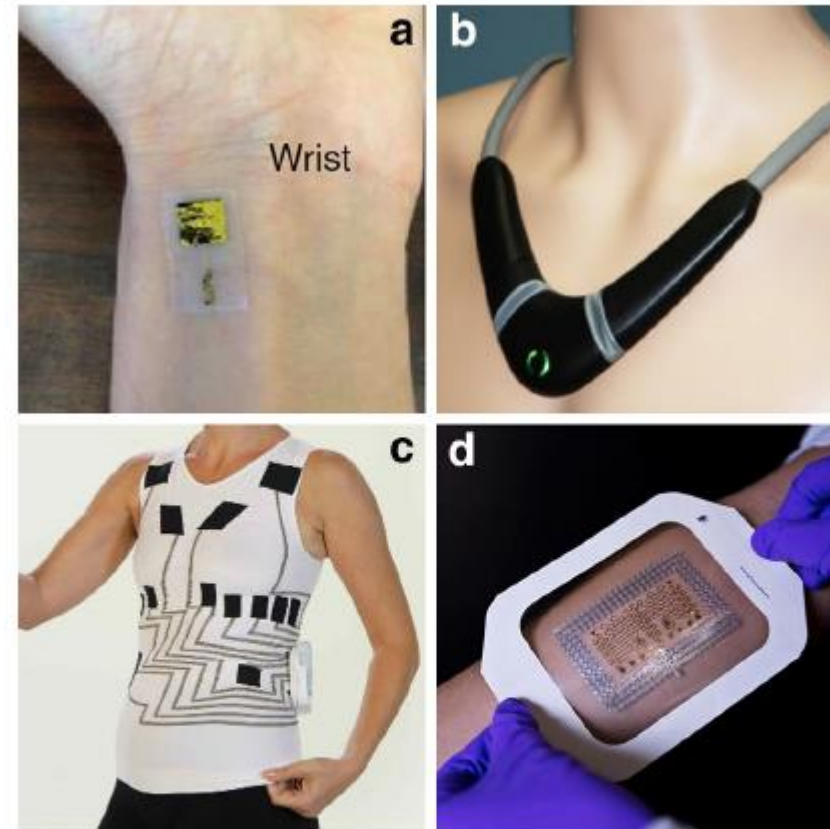
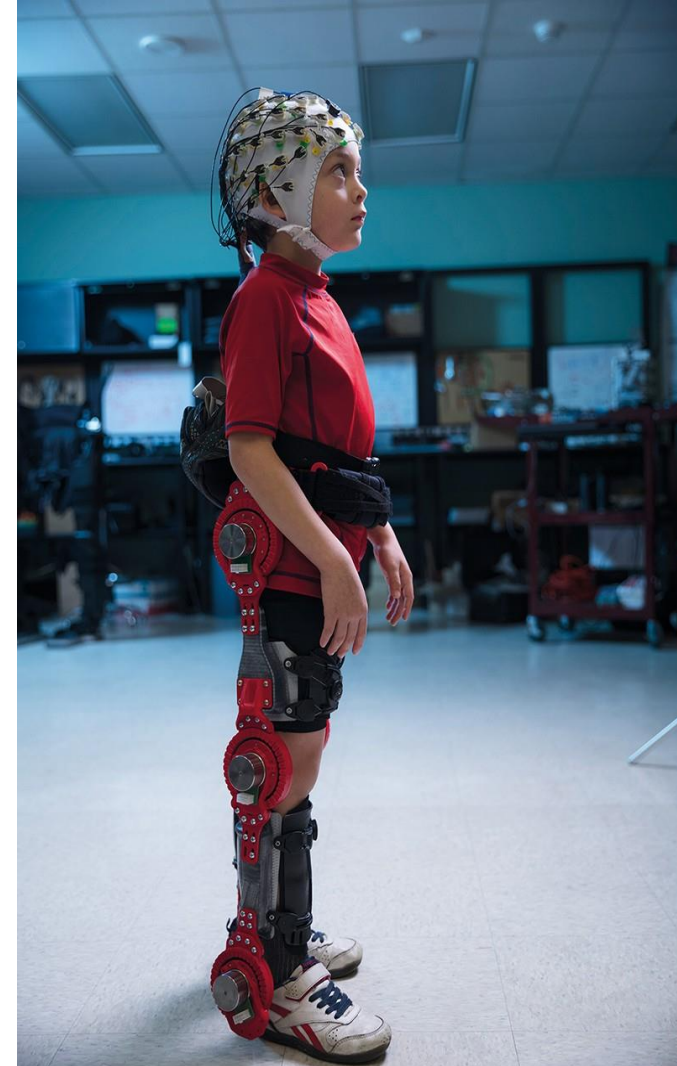


Fig. 5 Examples of wearable and wireless sensors. **a** Wireless patch measuring radial blood pressure, from [34] with permission; **b** necklace estimating thoracic fluid content, downloaded from Tosense.com; **c** T-shirt recording 12 leads ECG, downloaded from Personal-healthwatch.com; **d** electronic tattoo, downloaded from engr.utexas.edu

Future is 3 Dimensional,Haptics




Digital Twinning & Personalised Medicine



**Be Optimistic, Informed, Empowered,
Futuristic, Build a Bridge of Knowledge-
technology.**



Be a part of Technology Evolution in Medicine

	<p>Telemedicine Society of India (TSI) (Recognized under Societies Registration Act, 1860)</p> <p><u>MEMBERSHIP REGISTRATION FORM</u></p>	
Name: Mr./Ms./Mrs./Dr./Prof./M/s. _____		
Father / Spouse Name : _____		
Qualification : _____		
Date of Birth or Gender : _____		
Date of Formation of Company : _____ (DD – MM - YYYY) (Male / Female)		
Contact Person: _____		
Designation: _____		