



Non-Contact Monitoring Post RT

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Background



Growing recognition of RT as high risk intervention



POMH-UK data demonstrates poor rates of monitoring



This is contact hands-on



What happens when patient refuses?



Practicalities of physical health monitoring in RT episode

- ▶ Literature review
- ▶ Review existing guidance
- ▶ NG10, Maudsley, SmPC
- ▶ Present findings!

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Findings.....

Developing guidance

No evidence or guidance as to what constitutes monitoring


“Borrow” evidence from other healthcare specialties

NEWS is evidenced Trigger and Track model

Consensus / Expert opinion



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What guidance recommends



Respiratory rate



Level of consciousness



Visual signs (pallor,
pyrexia, dystonia,
signs of dehydration)



What is practical



▶ Is this enough?

CQC recent guidance



- ▶ “If full monitoring is impractical, do staff document clearly the reasons why and ensure a minimum observation of respiration and level of consciousness?”

CQC 2018

Advancing suggested non-contact Parameters

▶ ABCDE

Observation	Contact	Non-Contact
Airway	Look inside mouth, Pulse Ox	Listen. Snoring, gurgling, Strider
Breathing	Listen to lungs, Pulse Ox	Resp Rate, Even chest expansion
Circulation	Feel pulse, ECG, BP	Pallor, Cyanosis, distended veins
Disability	GCS, Glucose	Pupil size, Posturing, dystonia,
Exposure	Full exam	Look for any wounds, skin,

Emerging technology

- ▶ Technology has been present for many years.
- ▶ Photoplethysmography
- ▶ Advancements over last 3 years into detecting PPG through optical sensor
- ▶ Calculates pulse rate by detecting micro blushes in the skin every time your heart beats
- ▶ Calculates breathing rate by counting the movements of the body created by the chest and diaphragm breathing
- ▶ Oxehealth's Vital Signs product is a certified Class IIa medical device (in Europe)
- ▶ The pulse rate and breathing rate taken using Oxehealth's Vital Signs is rated at ± 3 beats per minute (pulse rate) and ± 2 breaths per minute (breathing rate).



Oxehealth's Vital Signs is a certified medical device; CE mark. See device Instructions for Use for intended use, contraindications, warnings, cautions, usage directions and maintenance.



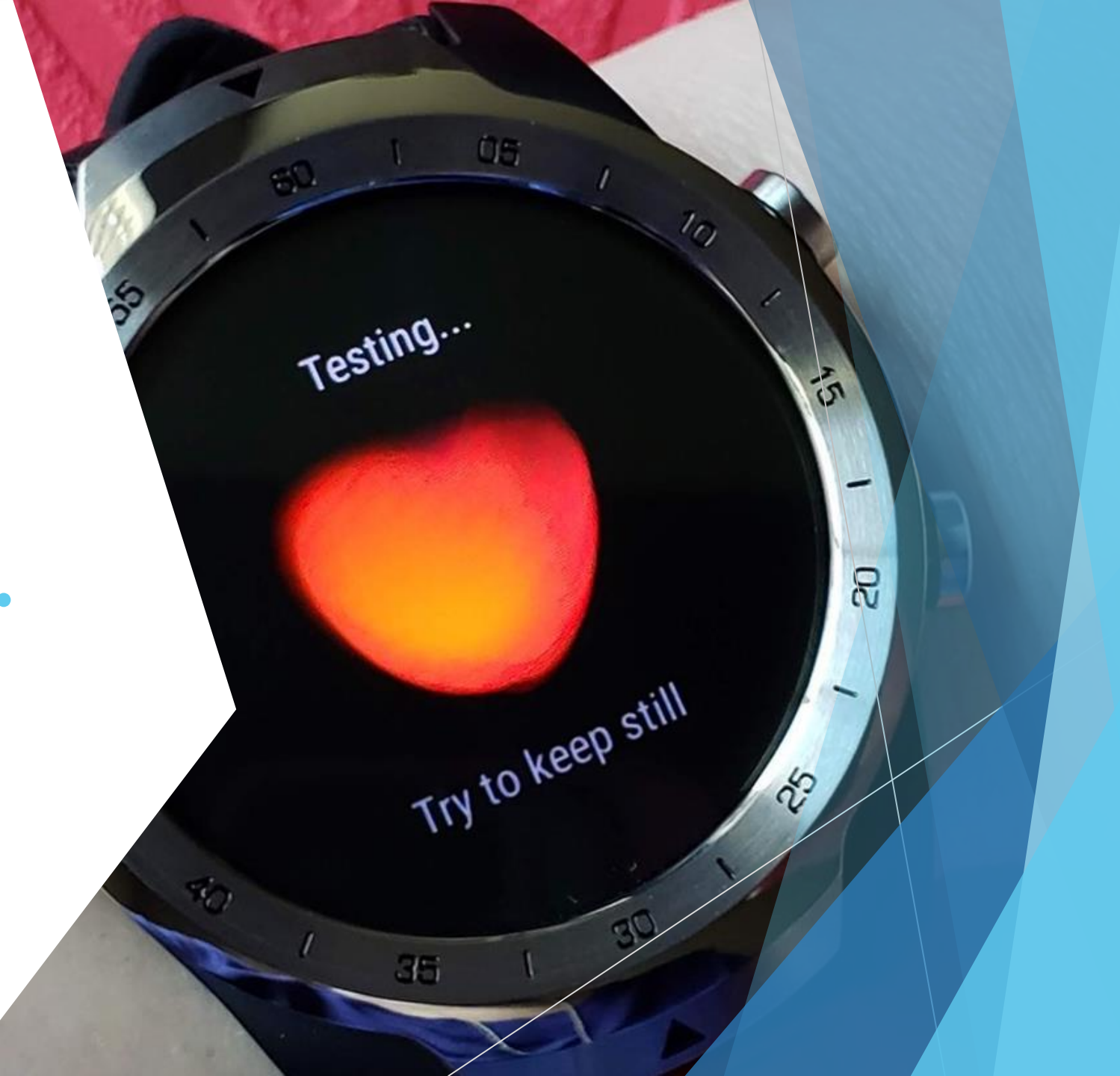
Emerging technology

_In-room equipment

- ▶ The Oxehealth system works by placing a non-intrusive optical sensor in a room, which uses Infrared illumination to detect activity/movement, pulse rate and breathing rate. The optical sensor and Infrared illumination are placed in a secure housing (anti-scratch, anti-break)

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The future...



ANY QUESTIONS?

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References

- ▶ Patel, M.X. et al., 2018. Joint BAP NAPICU evidence-based consensus guidelines for the clinical management of acute disturbance: De-escalation and rapid tranquillisation. *Journal of Psychopharmacology*.
- ▶ Thim, T. et al., 2012. Initial assessment and treatment with the Airway, Breathing, Circulation, Disability, Exposure (ABCDE) approach. *International journal of general medicine*, 5, pp.117-21. Available at: <http://www.ncbi.nlm.nih.gov/pubmed/22319249> [Accessed March 13, 2019].
- ▶ <https://www.resus.org.uk/resuscitation-guidelines/abcde-approach/>
- ▶ <https://www.oxehealth.com/news/oxehealth-secures-world-first-accreditation-for-its-vital-signs-technology>