

# THE CLINICAL ENGINEERING PROFESSIONAL ROLE IN THE SAFE DELIVERY OF TELEMONITORING

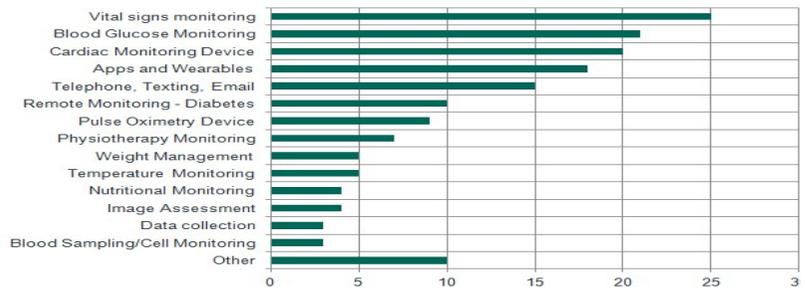


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Telemonitoring growth in Irish hospitals has been accelerated with COVID 19. In this time equipment and software has been quickly adopted. It is necessary to ensure that medical equipment standards are maintained and patient safety held as a primary objective.

The objective of this poster is to promote the role of Clinical Engineering (CE) in this new model of care. This is for patients who would ordinarily occupy a room in the home now continues in the home environment how can CE support this.

**Telehealth & Remote Patient Monitoring Solutions - Survey Responses**  
(HSE Remote Patient Monitoring Survey)



"The global telehealth market size was valued at USD 61.40 billion in 2019 and is projected to reach USD 559.52 billion by 2027, exhibiting a CAGR of 25.2% during the forecast period." *Fortune Business Insights, July 2020*

## CASE STUDY EXAMPLES INVOLVING CLINICAL ENGINEERING

**CF Monitoring** - At GUH Cystic Fibrosis patient were discharged home with Spirometry, SpO2 and weighing scales all monitored remotely from the hospital.



**RTest** - Stroke, AF patients discharged with remote monitoring. Device are returned by post for review within the hospital.



**WatchPAT** – Home based sleep analysis devices gather data while the patient is at home and are then returned for analysis.



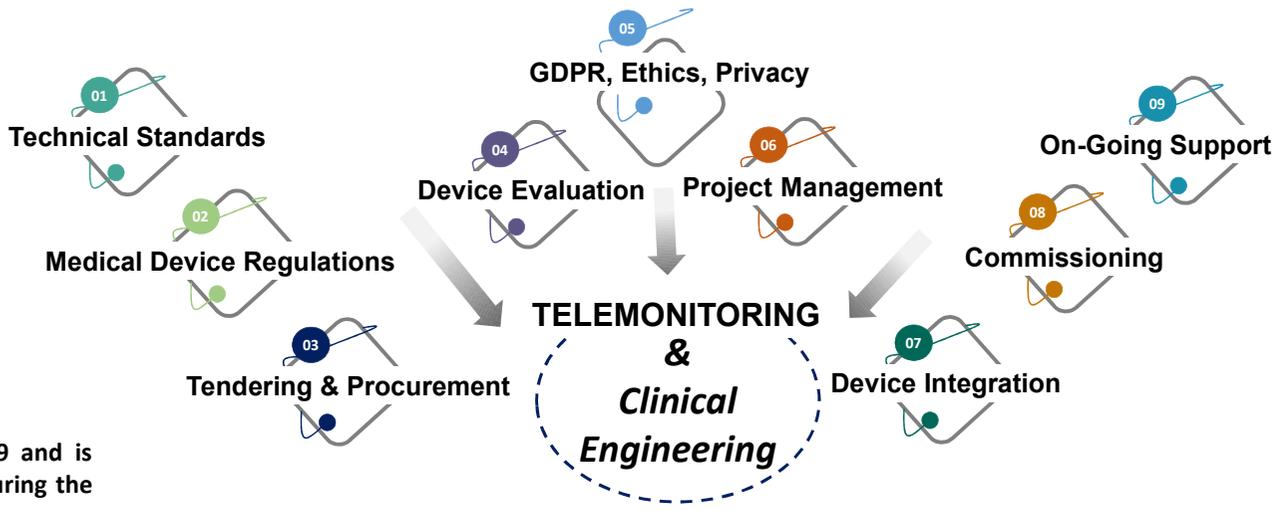
*There are several other projects currently in preparation such as remote Dermatology, Diabetes and Respiratory.*

# THE ROLE OF CLINICAL ENGINEERING

Technology and equipment management extends outside the four walls of the hospital into the patient home this evolving remote patient paradigm introduces more technology management challenges and opportunities for the CE profession.

The CE responsibility remains the same the medical equipment used with the patients, regardless of the use location must be selected commissioned and supported to assure its efficacy and safety.

The COVID 19 response further promotes the particular CE expertise to follow the medical technology and clinical need into the home environment, while at the same time allowing the hospital based expertise to be leveraged. With this in mind the BEAI have formed a group to examine the role of the CE and the many areas of involvement listed below.



## SUSTAINABLE REMOTE PATIENT MONITORING SOLUTIONS NEED CLINICAL ENGINEERS



**Health Technology Evaluations**

Ensuring all medical equipment meets the legislative, clinical and administrative standards.



**Clinical Engineering Network**

Engage with the BEAI Remote Monitoring Network. Better together!



**Clinical Engineering**

Leverage the Expertise that is already in place – do not undervalue it!

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