

# Clinical Physiologists Registration Board

## Continuing Professional Development Documentation Form

Name of activity	Journal article review		
Date of activity	29 September 2022		
Type of activity	Group A – workplace learning	Group B – structured learning	<b>Group C – self-directed learning</b>

Describe activity (Case presentation, article review, poster presentation, conference presentation, teaching session, etc...)
Journal Article “ Validation of Wearable Textile Electrodes for ECG monitoring” Tsukada et al in Heart and Vessels 2019,34: 1203-1211

What did you learn
The authors invented/developed a textile based ECG electrode that was sewn into a tight-fitting top and worn by patients and recorded their ECG as they did their usual activities. They tested this on 66 people and while they lay down, sat, stood, twisted their torso, and stamped. 88% of the recordings were of a good quality and comparable to standard electrodes / holter monitoring. With the greater exertion there was more artifact present on the textile electrodes. Overall this device shows promise that wearable electrodes could potentially be put into clinical use.

How will you apply this to your practice
I can't put this immediately into my practice, but it was interesting to learn how the future of ECG-taking may develop. I intend to look out for similar products at conferences or in journals to see if it develops into a technology that could be used in my department.

For any activity EITHER obtain signoff,

OR attach evidence.

<p>I verify this activity as being valid for CPD purposes</p> <p>Verified by: _____</p> <p>Signature: _____</p> <p>Designation: _____</p> <p>Date: _____</p>	<p><b>Evidence attached relating to this activity:</b> <b>Page One of the journal article</b></p>
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