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**CEDAR**

Centre for Healthcare Evaluation,  
Device Assessment and Research

CEDAR: Centre for Healthcare Evaluation, Device Assessment and Research

# Quarterly Bulletin

September 2023, Issue 4

CEDAR is committed to supporting patient-centred, evidence-based care through research and evaluation of health interventions, technologies, and NHS services.

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Recent highlights from the team

### Project Highlights

Find out which projects have been making strides in CEDAR this quarter

### Workstream Showcase

Learn about Health Economics - one of the many fields of expertise within CEDAR

### Staff Spotlight

Hear from Lydia Jordan, a recent graduate from Cardiff University.

## CEDAR News

- Congratulations to Catherine Borland, who completed the NHS Scientist Training Programme (STP) in Bioinformatics with CEDAR, and is now moving on to take up a role in HEIW.
- As part of CEDAR's [PREADAPT-Sepsis](#) process evaluation, we have received 66 questionnaire responses and completed 15 interviews. Recruitment for this sub-study has now closed and we plan to report findings in July 2024.
- Congratulations to Dr Judith White, who has been accepted into the Treialon Cymru Associate Membership programme.
- The CAV Podiatry Department have commissioned CEDAR to translate and validate the first 'Foot Function' PROM tool into Welsh, for use in Lower Limb Musculoskeletal Clinics across Wales. We are looking for bilingual (English and Welsh) speaking volunteers with a history of musculoskeletal foot pain (sprain, plantar fasciitis, and forefoot pain) to help. Click [here](#) to take part.
- Recruitment has just opened to the [MAPPLE](#) study which is the first CAVUHB-Sponsored Clinical Investigation of a medical device (in collaboration with CEDAR and Cardiff Metropolitan University). Led by Prof Zaheer Yousef, the MAPPLE study uses an approved pacemaker in a new patient group to see if it improves the way their heart contracts.
- CEDAR have been attending various exciting conferences over the past couple of months:
  - Rob, Hawys and Katherine attended the national PROMs conference in Sheffield in June
  - Judith attended the Critical Care Reviews conference in Belfast in June



Ayesha, Simone and Sue attended the Cochrane Colloquium in London this September

## PROJECT HIGHLIGHTS

### PROVISION

Patient-Reported Outcome Measures are standardised questionnaires that are completed by patients to gather their thoughts of their condition, well-being, and perception of their health in relation to specific diseases/conditions. Patients often complete PROMs but are unable to review data once submitted. Interest is growing in helping patients to interact with their PROM data to i) improve patient-clinician communication, ii) promote active patient involvement in their care, iii) improve quality of care, iv) monitor and track changes in patient outcomes, and v) alert patients to episodes of harmful health decline. The [PROVISION](#) (PROM VISualisation) study aims to build on what we know about the value of PROMs as an aid to patient communication by exploring patient perspectives relating to how PROMs can be visualised.

### Welsh Translation of PROMs

As part of its work with the Welsh Value in Health Centre, CEDAR is responsible for the Welsh translation of Patient Reported Outcome Measures (PROMs). As PROMs are specifically developed with clear wording to ensure they collect accurate responses, it is important that the Welsh translation matches the original version. Therefore, CEDAR follows a detailed translation method which includes two forward-translations, reconciliation, two back-translations and a cognitive debriefing stage, where the translation is tested on 5-10 Welsh-speaking patients with specific health conditions to assess its clarity and accuracy in comparison to the original version. If you are a Welsh speaker and would like to help with translation testing, please complete our [sign-up form](#).

### Artificial Intelligence (AI) Topics for Evidence Reviews: AI for Chest X-Rays

Artificial Intelligence technology topics are becoming an increasing part of CEDAR's review work. A recent rapid review of [AI technology for chest X-rays conducted for NICE](#) highlighted a need to consider the approach to developing search strategies and sifting of results to ensure that the relevant evidence was identified, while managing the number of irrelevant results. CEDAR and NICE explored the use of an AI-specific filter as part of the search strategies but felt there was potential for missing relevant records and so decided not to apply the filter to the final searches. This resulted in a large database of records which required additional resource and capacity to sift but meant that we could be confident that all relevant records would be identified. In sifting the records, the team began to identify key terms and phrases related to AI that could be used to filter results as well as developing an understanding of how studies report AI and machine learning methods.

### Workstream Showcase – Health Economics

#### ***Principal Health Economist, Megan Dale, discusses CEDAR's Health Economics work:***

CEDAR have a long history of health economic work in medical device evaluation and are an External Assessment Group (EAG) for the National Institute for Health and Care Excellence (NICE), which includes creating and critiquing economic models for medical technologies to inform NICE guidance. We produce a range of health economic work, including cost consequences analysis, cost effectiveness modelling, health economic analysis for clinical trials, budget impact analysis, early value proposition work and [social return on investment \(SROI\)](#). In addition to expertise in health economic methods, our wider team include experts in data analysis, trial methodology and qualitative work, while our established base within NHS Wales means we have strong relationships with clinical teams and an understanding of NHS practices.

### STAFF SPOTLIGHT

**We speak to Lydia Jordan, who has just completed a summer work placement at CEDAR:**



"I'm Lydia, a Medical Engineering Graduate from Cardiff University.

For 6 weeks this summer I've been working at CEDAR before I begin my PhD in the design of ligament repair devices. Working at CEDAR has given me skills and experience I didn't even know would be necessary to help prepare me for my PhD. I have had experience literature searching and sifting and an insight into the incredibly detailed and thorough process required for health technology assessments.

As part of my internship, I have been helping improve the Cardiff university medical device evaluation module. It is so fulfilling being able to help the future generation of medical engineers understand the work CEDAR carry out and how these skills are applicable in a wide range of careers and projects.

"I've thoroughly enjoyed my time working at CEDAR and hope to come back to visit in the future!"