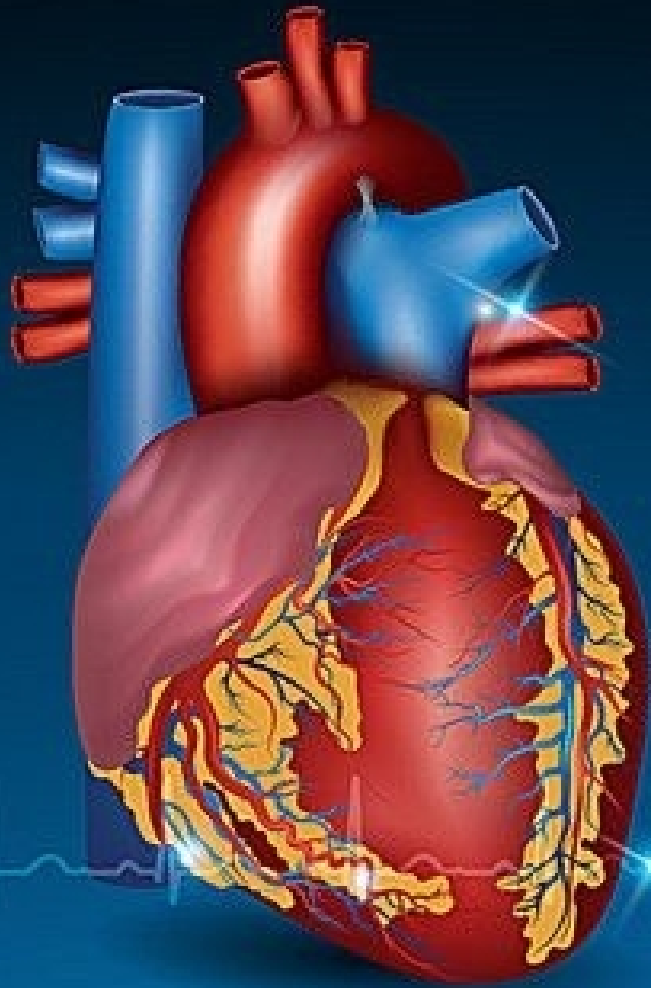




GIG
CYMRU
NHS
WALES

Bwrdd Iechyd Prifysgol
Hywel Dda
University Health Board



**Evaluation of the use of Charitable funds to
purchase 2 new Echocardiography machines for
Withybush's Cardio Respiratory Department**

*The benefit and impact to our service, patients
and staff*

By Teleri Cudd
Advanced Cardiac Physiologist

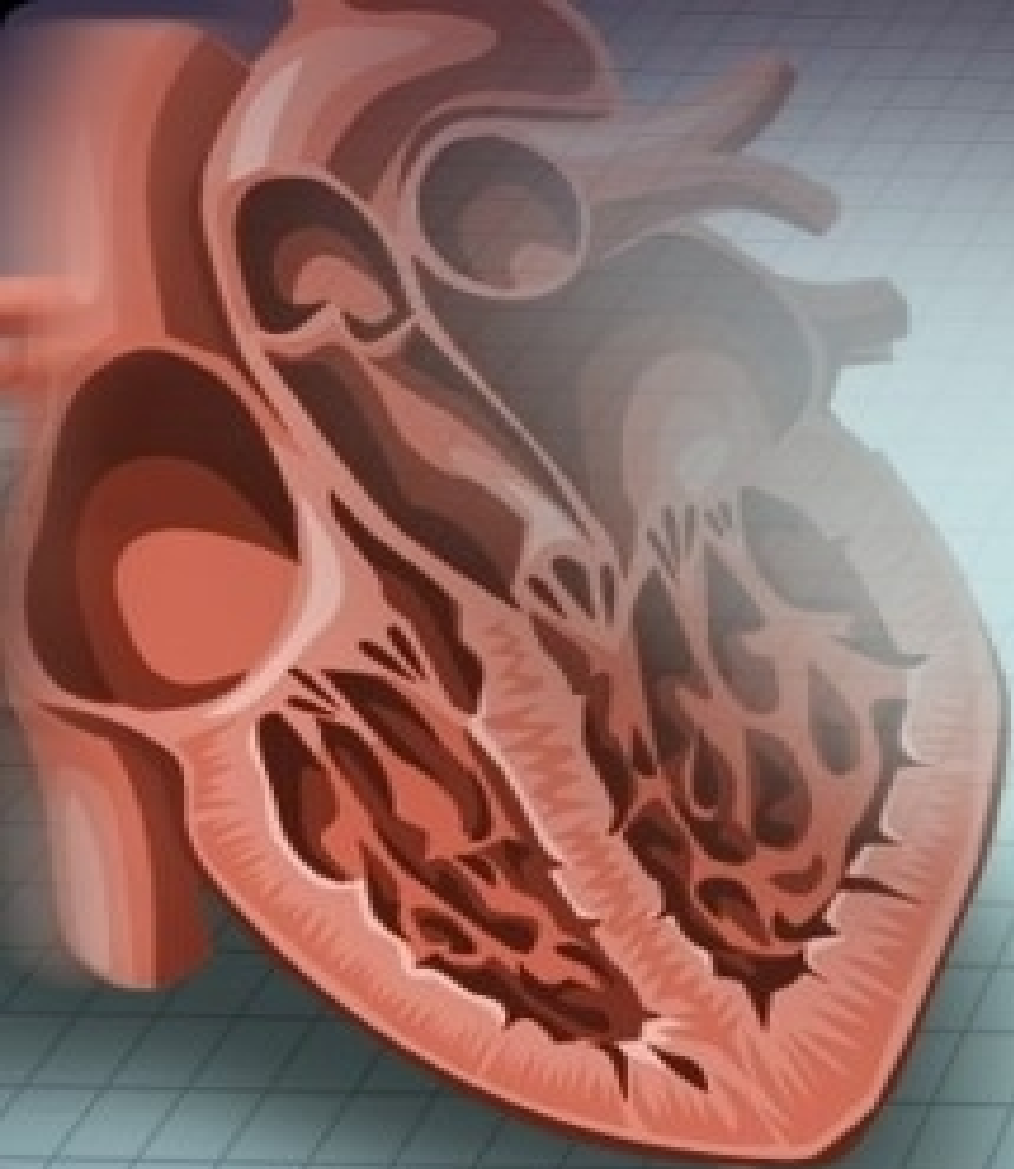
Echocardiography machines

- The Charitable Funds Committee approved funding for £200,176.72 from the Pembrokeshire Cardiology Equipment fund for the purchase of 2 state of the art echocardiography machines on the 26 September 2022.

The funding request is available to view from the link below:

[WGH Echo Machines 26.09.22](#)

- The machines arrived at the Cardio Respiratory Department in February 2023.
- The purchases allow Sonographers in the Department to undertake advanced echocardiograms with uncompromised image quality, excellent up to date measurements, for a wide range of patients from routine exams to the most complex studies.
- Both machines quickly bring us information with high contrast and spatial resolution, even for patients with body types or conditions which can be difficult to scan.



Quality ultrasound images can mean the difference between days or even weeks of further testing to obtain images distinct enough for an accurate diagnosis

Benefits

- Advanced visualisation capabilities
- Easier to undertake complex measurements
- Reduce tedious tasks
- Sharper images
- Improves diagnostic confidence
- Improves productivity and workload
- Able to achieve accurate, reproducible and high quality exams, quicker and easier
- Meeting the British Society of Echocardiography (BSE) guidelines and provide specialised echo scans and reports
- With an extra portable echo machine, we are able to increase inpatient echo capacity within the Hospital

- Certain measuring tools from the new echo machines are now being used for research purposes.
- Lucy Hwozdyk, Cardiac Scientist Trainee, from Withybush's Cardio Respiratory Department is undertaking a research study as part of her final year of training, which aims to benefit Cardiology patients in Pembrokeshire through early diagnosis of Atrial Fibrillation.
- This research would not be possible without the new, up to date echo machines and specific measuring tools that are included

Feedback

“By receiving both the GE E95 Cardiac Sonography Scanner, which is the highest spec available within the Cardiac sector and also the GE S70 mobile scanner, we are now able to increase quality, productivity and capacity to help combat the ever growing number of requests for investigations.”

Rhys Bowen, Interim Cardiac and Respiratory Healthcare Sciences Manager

“The Vivid E95 echo machines have really helped me with my understanding and training of echocardiography. With the newer machines, I can prioritise my focus on visualising structures and understanding any underlying pathology rather than producing an image. Additionally, the newer and updated tools that are available on the E95 have allowed me to start a research project within the Department that I wouldn’t have been able to do without the new machines.”

Lucy Hwozdyk, Trainee Clinical Scientist - Cardiology





DIOGEL | CYNALIADWY | HYGYRCH | CAREDIG
SAFE | SUSTAINABLE | ACCESSIBLE | KIND



GIG
CYMRU
NHS
WALES

Bwrdd Iechyd Prifysgol
Hywel Dda
University Health Board