

Service visit to Colonial War Memorial Hospital, Suva.

4th to 9th August 2022

The purpose of the visit to CWMH was to replace the X-ray tube on the cath lab.

A pace maker team is scheduled to visit CWM hospital in September and it was considered prudent to replace the X-ray tube before their arrival to ensure the facility is fully operational.

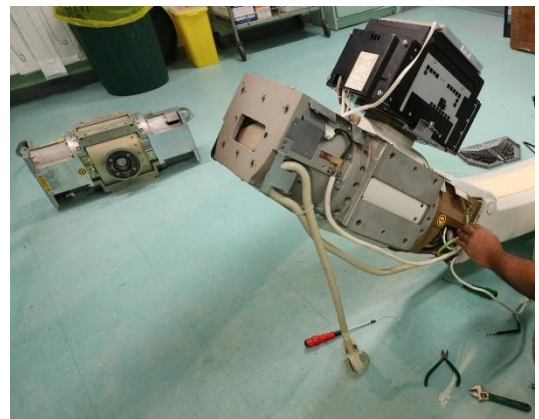
Activities during the visit:

X-ray tube:

The large filament in the X-ray tube had failed. When a filament fails, the catheterisation laboratory can still be used. The machine will automatically switch to the other filament.

However the image quality is slightly impaired and the risk factor is increased due to lack of a backup for the remaining filament.

The X-ray tube is a consumable item, with an average life of 6 to 7 years in a Philips Allura FD10 cath lab. Fortunately, we had a spare in storage in Suva.



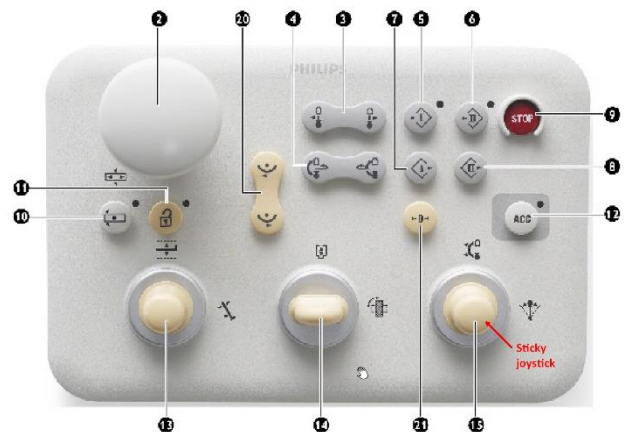
The Philips MCR 200 0508 X-ray tube weighs approximately 70 kg and it requires two people to safely replace it. The CWM Hospital biomedical engineers assisted with the replacement.

Stand movement overshoot:

It was very difficult to control the stand rotation and angulation movements from the control module in the examination room.

The cause was a “sticky” joystick in the operator’s module.

A quick cleaning of the joystick mechanism fixed the problem.



Xper Operators Module:

The faulty operator's module in the control room has been replaced.

It is now possible to quickly select the video inputs for the 58" monitor in the examination room. The 58" monitor can show up to 8 images simultaneously.



As a consequence, advanced features such the Stentboost program can now be used. The Stentboost enhances the outline of the stent in the coronary artery of a beating heart and portrays it as a stationary image.

It is now also possible to replay previous patient studies as a reference on the 58" monitor, irrespective of the cath lab where the original study was performed.

The next improvement of the CWM cath lab:

At present the CWMH cath lab has only one Xper operators module in the control room.

A second Xper operators module mounted on the patient table will improve the workflow if functions such as video input selection for the large monitor or Stentboost are used.

A table side module will be installed when all the required parts are available.

Peter Koens
Rotary Club of Nunawading.