

### **Diagnostic Imaging Teaching and Research Facilities**

The Diagnostic Imaging Section of the UCD School of Medicine and Medical Science is resourced with State of the Art Diagnostic Imaging X-ray Suite and associated imaging equipment used for undergraduate and graduate teaching purposes and research within the Biological Imaging Research Strand of the School.

#### ***GE Healthcare Digital Radiography System:***

Fully functional DR x-ray system linked to RIS/PACS for full digital workflow including DICOM work lists.



#### ***Carestream Computed Radiography System:***

Functional CR system fully integrated to RIS/PACS for true digital data workflow.



#### **GE Healthcare Radiology Information System/Picture Archive Communication System: RIS/PACS**

A fully functional RIS/PACS system, a Centricity IX2 with a RIS server; PACS/ Web server and EMC AX100 1.1 TB RAID.



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### ***PACS Laboratory***

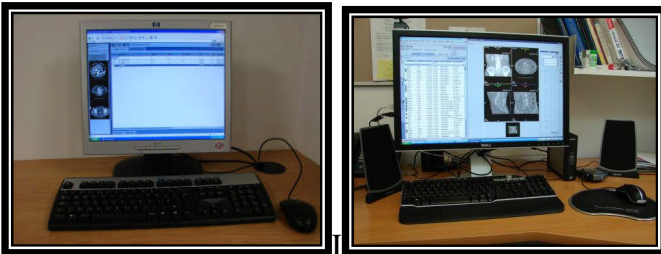
Administration consoles consist of 21 PCs fully equipped with RIS & Diagnostic level PACS software and also with Advanced Processing (MIP/MPR).



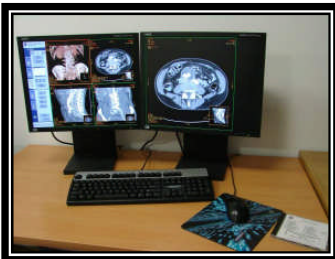
Within a dedicated PACS annexe are high specification workstations and a fully functional integrated RIS/PACS reporting workstation with state of the art Barco Coronis Diagnostic Displays.



The PACS has its own dedicated VLAN. PACS, web is available across the VLAN. The RIS/PACS workstations are equipped with QC software for managing image demographics and SMA software for the creation of DICOM CDs.



The Radiology workstations allow advanced post processing such as multi planer reconstructions, 3D, and volume rendering.



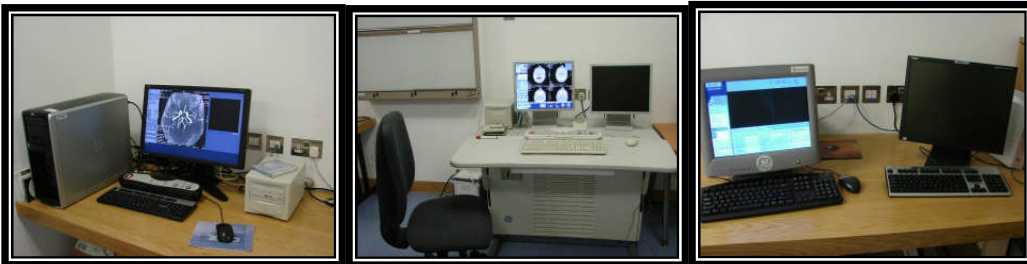
### ***Ultrasound facilities***

An US acquisition simulator and scanning equipment to allow full training flexibility.



### ***CT/MR/RNI simulation consoles***

CT, MR and RNI consoles which simulate CT/MR/RNI scanner acquisition and are fully integrated to RIS/PACS for true digital data workflow.



### ***Radiation Dosimetry Facilities.***

A wide range of dose measurement equipment including:

- A TLD Reader
- Range of multifunction and dose meters

### ***Anthropomorphic Phantoms and Associated DI Research Equipment***

The Diagnostic Imaging Section has a wide range of anthropomorphic phantoms for use in dose optimisation and image quality studies, the equipment includes:

- A RANDO Anthropomorphic phantom
- A PIXY Anthropomorphic phantom
- Paediatric Anthropomorphic Phantoms: Ages: New Born, 1, 5, & 10 years.