

Freedom of Information Request: Our Reference CTMUHB_121_23

You asked:

I am writing to Cwm Taf Morgannwg University Health Board to request information under the Freedom of Information Act 2000. In order to assist you with this request I am outlining my query as specifically as possible.

I would like to know:

Q1) Is 3D printing technology being used at your facilities?

Yes, by our Innovation Team, Clinical Engineering and Orthotic Departments.

Q2) What 3D Printers are being used for producing the parts (Brand name & model)?

Innovation Team:

- Ultimaker S5
- RAISE 3D E2
- Creality Ender 5
- Formlabs Form 3

Clinical Engineering:

- Ender-5 Pro

Orthotics:

- Stratasys Objet 260
- Formlabs 2
- Formlabs 3
- Creality Ender Pro3
- Creality Ender 5

Q3) What type of parts/products are being printed (e.g. Prosthetic hand, prosthetic leg, splint, hip joint etc.) Please be specific.

Innovation Team: We are printing a variety of prototypes – we are not making parts or products.

Clinical Engineering: Small parts of equipment that get broken i.e. scanner holder for ECG.

Orthotics:

- Medical Models from CT Scans
- Stents
- Dental Models
- Dental Appliances
- Research Models

Q4) What materials are being commonly used for 3D printing at your facilities?

Innovation Team: Thermosetting plastics and resins

Clinical Engineering: PLA

Orthotics: PLA filament, Formlabs Resin and Stratasys Resin

Q5) What ISO standards and/or other ASTM/BS standards are being followed when producing the parts/products?

Innovation Team: N/A

Clinical Engineering: N/A

Orthotics: Laboratory QMS

Q6) Please briefly describe the ethics process that is required for using 3D printing parts in patients?

Innovation Team: N/A

Clinical Engineering: N/A

Orthotics: N/A