

Neuroimaging Technologies

Reference Number: F4832
Date of Response: 08/09/2022

Further to your Freedom of Information Act request, please find the Trust's response, in **blue bold text** below:

Royal Devon's Eastern FOI Office Response

I wish to obtain the following information:

1. What neuroimaging technologies does your Trust currently use? (confirm from the list below)

Answer: Please see below.

MRI (Magnetic Resonance Imaging) - **Yes**
PET (Position Emission Tomography) – **Not available within the Trust. NHS scans performed externally by Alliance Medical**
CT (Computed Tomography) - **Yes**
MEG (Magnetoencephalography) - **We have no MEG and are not to look to procure one**
EEG (Electroencephalogram) - **Yes**
NIRS (Near-Infrared Spectroscopy) - **No**
fMRI (Functional Magnetic Resonance Imaging) - **Research scanner only**
SPECT (Single Photon Emission Computed Tomography) – **Yes – Dopamine Transport (DAT) scans only**
IEEG (Intracranial Electroencephalogram) - **We do not offer intracranial EEGs**

- a. If YES, how many of each neuroimaging technology do you have within your Trust?

Answer: Please see below.

MRI (Magnetic Resonance Imaging) - **3 plus 2 mobile units**
PET (Position Emission Tomography) - **0**
CT (Computed Tomography) - **4 plus 2 mobile units**
MEG (Magnetoencephalography) - **0**
EEG (Electroencephalogram) :-
1x routine EEG system
1x portable EEG system
1x mobile EEG/EEG Videotelemetry system
1x inpatient EEG videotelemetry/ polysomnography system
3x outpatient “home” videotelemetry EEG system
1x outpatient “home” video polysomnography system

NIRS (Near-Infrared Spectroscopy) - **0**
fMRI (Functional Magnetic Resonance Imaging) - **1 research scanner**
SPECT (Single Photon Emission Computed Tomography) - **2**

IEEG (Intracranial Electroencephalogram) - **No, we are not a neurosurgery centre. All intracranial studies are performed at Bristol as they are our closest epilepsy surgery centre.**

2. Does your Trust currently use MEG (magnetoencephalography) technology? (tick ONE answer in the attached spreadsheet)

Answer:

- **No, we do not use a MEG machine and are not looking to procure one.**

3. How many epilepsy surgeries were performed in your Trust from 31st July 2016 to 31st July 2022?

Answer: ** ** Epilepsy surgery is brain surgery or neurosurgery and we don't perform these kinds of procedures at this Trust. Our patients are referred to Derriford or other specialist centres.

4. From 1st January 2021 to 31st July 2022, how many epilepsy patients in your Trust have been prescribed (enter a value for each of the following):

- a. One type of anti-epileptic drug (AED)?

Answer: **234 patients

- b. Two types of anti-epileptic drugs (AEDs)?

Answer: **82 patients

- c. Three or more types of anti-epileptic drugs (AEDs)?

Answer: **47 patients

**** Note: We can only establish that patients were prescribed 1/2/3 of these drugs within the specified time frame, we don't know if they were prescribed these drugs concurrently.**

5. What was the average patient diagnosis time (in months), from initial appointment to epilepsy diagnosis, in the following date ranges: (enter a value for each of the following in the attached spreadsheet):

- a. 1st March 2020 - 28th February 2021?

Answer: 5* months.

*** Data collated between October 2020 and February 2021 to coincide with initiation of Trust's new patient administration system**

- b. 1st March 2021 - 28th February 2022?

Answer: 4 months.