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King's Mill Hospital
Mansfield Road
Sutton in Ashfield
Nottinghamshire
NG17 4JL

RE: Freedom of Information Request

Tel: 01623 622515
Join today: www.sfh-tr.nhs.uk

4th April 2024

Dear Sir/Madam

With reference to your request for information received on 5th February 2024, I can confirm in accordance with Section 1 (1) of the Freedom of Information Act 2000 that we do hold the information you have requested. A response to each part of your request is provided below. Please accept our apologies for the delay.

In your request you asked:

1. The normal range (adults and children) for the following liver enzymes: alanine transaminase (ALT), aspartate transaminase (AST), alkaline phosphatase and gamma GT.

AST – Adult Males	0 – 35 IU/L
AST – Adult Female	0 – 30 IU/L
AST – No paediatric reference range quoted.	
ALT – Adult Males	up to 45 IU/L
ALT – Adult Female	up to 35 IU/L
ALT – No paediatric reference range quoted.	
ALP – Adults	30 – 130 IU/L
ALP – 1mth – 16yrs	60 – 425 U/L
ALP – Neonate – 1mth	70 – 380 U/L
GGT – Adult Males	less than 60 IU/L
GGT – Adult Females	Less than 40 IU/L
GGT – no paediatric reference range quoted.	

2. The method and machine used with reference so it can be identified.

AST IFCC without pyridoxal phosphate activation (Roche) 702 analyser.
ALT IFCC without pyridoxal phosphate activation (Roche) 702 analyser.
ALP p-nitrophenyl phosphate (ROCHE) 702 analyser.
GGT Enzymatic/Colorimetric (Roche) 702 analysers.

Home, Community, Hospital.

Patient Experience Team
01623 672222
sfh-tr.pet@nhs.net



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Chair Claire Ward
Chief Executive Paul Robinson

- 3. How was your local normal range determined?**
- a) From the reference range specified by the manufacturer – Yes.
 - b) By the lab of a large group of normal volunteers
 - c) From historical data
 - d) Other – please describe. Yes – Paediatric reference ranges from Pathology Harmony study.
- 4. Do your liver function tests automatically include measurement of AST?**
No.
- 5. How many sets of liver function tests, which include measurement of ALT and alkaline phosphatase, does your hospital or laboratory complete each year? How many patients does this represent?**
322625 LFT tests were completed during 2023.
This represents 161177 individual patients.
- 6. How many requests for measurement of AST does your hospital or laboratory complete each year? How many patients does this represent?**
19919 measurements of AST were completed during 2023.
This represents 16209 individual patients.

7. How many values exceed the upper limit of normal for each liver function test?

	ALP			ALT		AST		GGT	
Population	Adult	Paed	Neonate	Male	Female	Male	Female	Male	Female
Upper Limit of Normal	130	425	380	45	35	35	30	60	40
Total	40268	164	103	17987	202989	7311	6305	8389	11260

If you do not hold this information because you consider the analyses to be done externally by an outside laboratory, please provide the name of the laboratory and email address for their FOI officer.

I trust this information answers your request. Should you have any further enquiries or queries about this response please do not hesitate to contact me. However, if you are unhappy with the way in which your request has been handled, you have the right to ask for an internal review. Internal review requests should be submitted within two months of the date of receipt of the response to your original letter and should be addressed to: Sally Brook Shanahan, Director of Corporate Affairs, King’s Mill Hospital, Mansfield Road, Sutton in Ashfield, Nottinghamshire, NG17 4JL or email sally.brookshanahan@nhs.net.

If you are dissatisfied with the outcome of the internal review, you can apply to the Information Commissioner’s Office, who will consider whether we have complied with our obligations under the Act and can require us to remedy any problems. Generally, the Information Commissioner’s Office cannot decide unless you have exhausted the internal review procedure. You can find out more about how to do this, and about the Act in general, on the Information Commissioner’s Office website at: <https://ico.org.uk/your-data-matters/official-information/>.

Complaints to the Information Commissioner's Office should be sent to FOI/EIR Complaints Resolution, Information Commissioner's Office, Wycliffe House, Water Lane, Wilmslow, Cheshire, SK9 5AF. Telephone 0303 1231113, email casework@ico.org.uk.

If you would like this letter or information in an alternative format, for example large print or easy read, or if you need help with communicating with us, for example because you use British Sign Language, please let us know. You can call us on 01623 672232 or email sfh-tr.foi.requests@nhs.net.

Yours faithfully

Information Governance Team

All information we have provided is subject to the provisions of the Re-use of Public Sector Information Regulations 2015. Accordingly, if the information has been made available for re-use under the [Open Government Licence](#) (OGL) a request to re-use is not required, but the licence conditions must be met. You must not re-use any previously unreleased information without having the consent from Sherwood Forest Hospitals NHS Foundation Trust. Should you wish to re-use previously unreleased information then you must make your request in writing. All requests for re-use will be responded to within 20 working days of receipt.