

Ref: FOI/GS/ID 8858

**Please reply to:**  
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12 February 2024

## **Freedom of Information Act 2000**

I am writing in response to your request for information made under the Freedom of Information Act 2000 in relation to alanine transaminase (ALT), aspartate transaminase (AST), alkaline phosphatase and gamma GT.

*You asked: All questions are shown as received by the Trust.*

- 1. The normal range (adults and children) for the following liver enzymes: alanine transaminase (ALT), aspartate transaminase (AST), alkaline phosphatase and gamma GT.*
- 2. The method and machine used with reference so it can be identified.*
- 3. How was your local normal range determined?*
  - a. From the reference range specified by the manufacturer*
  - b. By the lab of a large group of normal volunteers*
  - c. From historical data*
  - d. Other – please describe.*
- 4. Do your liver function tests automatically include measurement of AST?*
- 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?*
- 6. How many requests for measurement of AST does your hospital or laboratory complete each year? How many patients does this represent?*
- 7. How many values exceed the upper limit of normal for each liver function test?*
- 8. 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.*

Trust response:

1.

Alkaline phosphatase = 30 to 130 U/L

ALT = Male 0 – 50 U/L, Female 0 - 35 U/L

AST = 0 – 75 U/L, Male 0 – 50 U/L, Female 0 - 35 U/L

Gamma GT 0 – 400 = IU/L, Male 10-71 IU/L Female 6-42 IU/L

2. Method: Roche Cobas for ALT, AST, alkaline phosphatase and GGT

3.

ALT: 1 - manufacturer reference range (standardised against IFCC)

AST: 1 - manufacturer reference range (standardised against IFCC)

Alkaline Phosphatase: 4 - other: From Pathology Harmonisation

GGT:1 - manufacturer reference range (standardised against IFCC)

4. NO

5. ALP = 454,856 ALT = 441,881 (data 2023)

Patients – We do not collect data in this format.

6.

AST = 5,457 sets (data 2023)

Patients – We do not collect data in this format.

7. We do not collect data in this format.

8. Not applicable