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Request for Information Reference: 08.22.33

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Email only

15th August 2022

Freedom of Information Act 2000 – Request for Information

Thank you for submitting a request for information which we received on 15th August 2022 in relation to County Durham and Darlington NHS Foundation Trust (the Trust). Your request has been processed under the provisions of the Freedom of Information Act 2000 and I am now able to provide you with a response.

Your request was in relation to ACR laboratory device and I am providing the following information in response to your specific questions:

Please can you provide me with:

1. Information about the laboratory device used for analysis of urinary albumin: creatinine ratio.

The urinary albumin: creatinine ratio is calculated from the measurement of urine creatinine and urine albumin.

Albumin: Creatinine Ratio

Male: <2.5 mg/mmol

Female: <3.5 mg/mmol

Albumin/Creatinine Ratio = $\frac{\text{Microalbumin (mg/L)}}{\text{Urine Creatinine (mmol/L)}}$

Urine creatinine and urine albumin are performed on the SIEMENS ADVIA Chemistry XPT system (Automated Chemistry Analyser). Sampling, reagent delivery, mixing, and processing are automatically performed by the ADVIA Chemistry XPT system.

The ADVA Chemistry CRE_2c assay is a modification of the Jaffe method using rate blanking and intercept correction. Rate blanking is used to minimise bilirubin interference.

The ADVIA Chemistry μ ALB₂ assay is a polyethylene glycol (PEG)-enhanced immunoturbidimetric assay. A sample containing human albumin is suitably diluted and then reacted with specific antiserum to form a precipitate that can be measured turbidimetrically at 340 nm. By constructing a standard curve from the absorbancies of standards, the albumin concentration of the sample is determined.

In line with the Information Commissioner's directive on the disclosure of information under the Freedom of Information Act 2000 your request will form part of our disclosure log on the Trust's website. However please be assured that we anonymise all responses prior to adding them to the disclosure log.

I hope that this response has provided you with the information you had requested. If you have any queries or wish to discuss the information supplied, please do not hesitate to contact me by telephone or in writing. If however, you are dissatisfied with the way in which your request has been handled and would like an internal review, you will need to contact me in writing at the above address or via cdda-tr.cddftfoi@nhs.

If you remain dissatisfied with our response following an internal review you have the right to appeal to The Information Commissioner at Wycliffe House, Water Lane, Wilmslow, Cheshire, SK9 5AF. More information is available on their website; www.ico.gov.uk.

Yours sincerely

Corporate Records and Freedom of Information Facilitator