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| Cavan General Hospital Department of Clinical & Laboratory Sciences | | | |
| Q-Pulse Doc No: | MEMO 229 | Date of Issue | 09/11/2022 |
| Calculation of Adjusted Calcium | | | |

MEMORANDUM

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| Originating Department | Pathology Laboratory |
| Issued By: | Brian O'Malley, Laboratory Manager, |
| Issued To: | All Users |
| Subject: | Adjusted Calcium |
| Details: | |

Dear Colleagues,

A new formula has been introduced for the calculation of adjusted calcium. This formula uses an estimated normal albumin value of 44 g/L gathered from a review of our normal patient data.

This will create differences in individual patient results, but the overall effect should be a minor increase in corrected calcium. There will be a negligible change in the numbers of patients diagnosed as hypo- or hyper-calcemic on the basis of the new corrected calcium formula.

Current formula: [Adjusted Calcium] = [Measured Calcium] + (0.02*(42 - [measured BCG Alb])).

New formula: [Adjusted Calcium] = [Measured Calcium] + (0.013*(44 - [measured BCG Alb])).

This new formula is used only when albumin falls between the levels 20-44 g/L therefore Adjusted Calcium will not be reported on patients with albumin values < 20 g/L and > 44 g/L.

NOTE: All memos issued from the Department of Clinical & Laboratory Sciences must be recorded as active documents on Q-Pulse

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If you have any queries relating to this, please contact the Biochemistry Department on 6298.

This new calculating mechanism will begin with immediate effect.

Regards

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