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Patient Name	:		
DOB/Age/Gender	:	Bill Date	:
Patient ID / UHID	:	Sample Collected	:
Referred By	:	Sample Received	:
Sample Type	:	Report Date	:
Barcode No	:	Report Status	:

Test Description	Value(s)	Unit(s)	Reference Range

BIOCHEMISTRY REPORT

Calcium Ionized

Calcium Ionised	1.25	mmol/L	1.15 - 1.33

Method : (Serum,Ion Selective Electrode)

Interpretation:

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1. Ionized calcium amounts for 50-55% of total calcium and is physiologically active form of calcium. Total calcium is often difficult to interpret as it is dependent on albumin & other proteins. Alterations in serum albumin during an acute illness may change the total serum calcium by as much as 30%.
2. Ionized calcium has inverse relationship with blood pH, values can change upto 5% for each 0.1pH unit change.
3. Decreased serum ionized calcium values are seen in primary hypoparathyroidism, vitamin D deficiency, systemic illnesses leading to respiratory acidosis or metabolic alkalosis, critically ill patients, renal disorders and patients with recent blood transfusions. Decreased ionized calcium levels between 0.75 and 1 mmol/L are usually well tolerated, but the risk of reduced cardiac output & arrest increases when ionized calcium levels approach 0.62 mmol/L.
4. Increased serum ionized calcium values are seen in primary hyperparathyroidism, vitamin D therapy, various malignancies producing parathyroid hormone.

Reference:

• Tietz Textbook of Clinical Chemistry,CA Burtis, ER Ashwood, 1999, chapter 39, pp 1405-1406
• The importance of measuring ionized calcium in characterizing calcium status and diagnosing primary hyperparathyroidism. Walsh JP, Nguyen HH, Kent GN, Lim EM. J Clin Endocrinol Metab. 2012 Sep;97(9):3138-45.

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2. It is to be presumed that the tests performed pertain to the specimen/sample attributed to the Customer's name or identification. It is presumed that the verification particulars have been cleared out by the customer or his/her representation at the point of generation of said specimen / sample. It is hereby clarified that the reports furnished are restricted solely to the given specimen only.

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