

## Response to NC from Clinical Biochemistry Laboratory

### NC 1 Response:

- a. LDL Cholesterol EQAS result not available:

Clinical Biochemistry Laboratory, ESIC Medical College, Faridabad is running External Quality Assurance Scheme (EQAS) with CMC Vellore. As per Chemistry I group of CMC Vellore, LDL is not a part of constituent Group of EQAS as it is a calculated parameter. Thereby LDL Cholesterol EQAS result is not available.

LDL Cholesterol is a calculated parameter using Friedewald's Formula. It is calculated using values of Total Cholesterol, Triglycerides and HDL-cholesterol values.

$$\text{LDL-C} = (\text{Total Cholesterol}) - (\text{HDL-C}) - (\text{TGs}/5)$$

The EQAS results for these individual parameters (Total Cholesterol, Triglyceride and HDL - Cholesterol) used in the above formula are provided in CMC, Vellore EQAS reports.

### NC 1 Response:

- b. For Root Cause Analysis

QC was checked for 05<sup>th</sup> May 2022 date of EQAS report published and it turned out to be within acceptable limits. The parameter was under observation with all QC checks on daily basis, and following the EQAS report for the next month (May-2022) it was found to be within acceptable limit. (Interpretation : Good, SDI- 1.33). EQAS Report for month of May 2022 is attached.

Therefore, this outlier could be due to Random error

Annexure 1: EQAS May 2022

### NC 3 Response:

- a. Calibration certificate with signature and Latest control run results in Annexure 2.