

PROJECT: Evaluation of two chemiluminescent immunoassays for IgG and IgM antibodies towards human cytomegalovirus

Study abstract

The objective of the study is to broadly assess CMV testing results from diagnostic routine as obtained with the Elecsys methods and other commercially available assays in the field. Data will be generated in parallel at ≥ 1 external study site in the current routine setting. The agreement rates, relative specificity and the relative sensitivity will be compared to at least one other commercially available CMV assay family (e.g. respective corresponding DiaSorin Liaison[®] CMV assays). Approx. 10000 (target 12000) routine samples with CMV request will be tested.

Overview experimental part

The experimental part is subdivided into the following main sections: Study Familiarization (see 9.1) In this part of the Study Protocol the site personnel should get acquainted with the system and reagents, the experimental design and/or WinCAEv (if used). - Check the barcode recognition of routine vials: Run 10 routine vials with routine barcodes - Check data transfer into Roche analysis system WinCAEv and data manager: Perform 5 tests with negative and 5 tests with positive control material (e.g. Preci Control 1 and 2 of CMV IgG or CMV IgM).

The participation in the Main Trial is mandatory. The Main Trial consists of method comparison experiments using routine samples with CMV request. The testing algorithm of the respective PI shall be followed.

Method comparison

Relative sensitivity and relative specificity as depicted in the method sheet of the respective assay. Values need to be within the respective confidence ranges of the respective method sheet. Additional analyses may be performed (e.g. Avidity, COI levels, infection status, ...) if applicable.

General note

The product given to you for the purpose of this study is CE-marked and approved for diagnostic purposes in your country, depending on local regulations. Use of the assays is described in respective method sheets and will be performed accordingly.

Objective of the study

Broad assessment of CMV testing results under routine conditions using different commercially available methods

Intended use

Elecsys CMV IgM (07027133190) Immunoassay for the in vitro qualitative determination of IgM antibodies to cytomegalovirus in human serum and plasma. Results obtained with this assay are used as an aid in the diagnosis of recent CMV infections. The electrochemiluminescence immunoassay "ECLIA" is intended for use on the cobas e 801 immunoassay analyzer.

Elecsys CMV IgG (07027117190) Immunoassay for the in vitro quantitative determination of IgG antibodies to cytomegalovirus in human serum and plasma. Results with this assay are used to indicate past or recent infection with CMV. The electrochemiluminescence immunoassay "ECLIA" is intended for use on the cobas e 801 immunoassay analyzer.

DATA MANAGEMENT PROCEDURES

Testing results of Elecsys are captured, analyzed, stored and archived in WinCAEv. An electronic archiving system will be used for long term archiving of the data. Calibration and testing results from comparison methods will be stored and archived as hard copies or electronically. Testing results from comparison methods will be entered manually or by Host File Import in WinCAEv. Results from confirmatory testing will be entered manually in WinCAEv or respective datasheets. The manually entered data will be 100% source data verified according to the 4-eye principle. The data will be submitted to Roche Diagnostics and monitored on a regular basis as defined in the respective monitoring plan in order to become aware of unexpected results early on. Retain all samples tested until the CRA allows disposal of the specimens

