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LIAISON® VZV IgG and VZV IgM assays: a comparative study

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Varicella and zoster are infections caused by Varicella-zoster virus (VZV) which are mainly diagnosed clinically, but serology plays an important role, especially in case of unusual symptomatology.

OBJECTIVES

The aim of this study was to evaluate if the LIAISON® VZV IgG and IgM, two fully automated immunoassays could be an alternative method to ELISA tests currently used in our institute.

METHODS

165 selected samples were tested with LIAISON® VZV IgG and IBL VZV IgG. For interpretation of results of the LIAISON® assay, a cut-off of 150 mIU/mL was used, to achieve the highest diagnostic specificity and sensitivity.

160 selected samples were tested with LIAISON® VZV IgM and Enzygnost VZV IgM.

Discordant results were solved by Euroimmun and NovaTec assays.

RESULTS

The comparative study between LIAISON® and IBL VZV IgG as well as between LIAISON® and Enzygnost VZV IgM showed overall agreement of 89.7% and 80% respectively. Those values were 96.4% and 97.5% respectively when reference tests were used and consensus between at least 2 out of 3 tests was applied.

CONCLUSION

The LIAISON® VZV IgG and IgM assays have performances which meet our current quality requirements, and are a valid alternative, since the kits performance is at least equivalent to those currently available on the market.