

# Acute Infection or Reactivation?

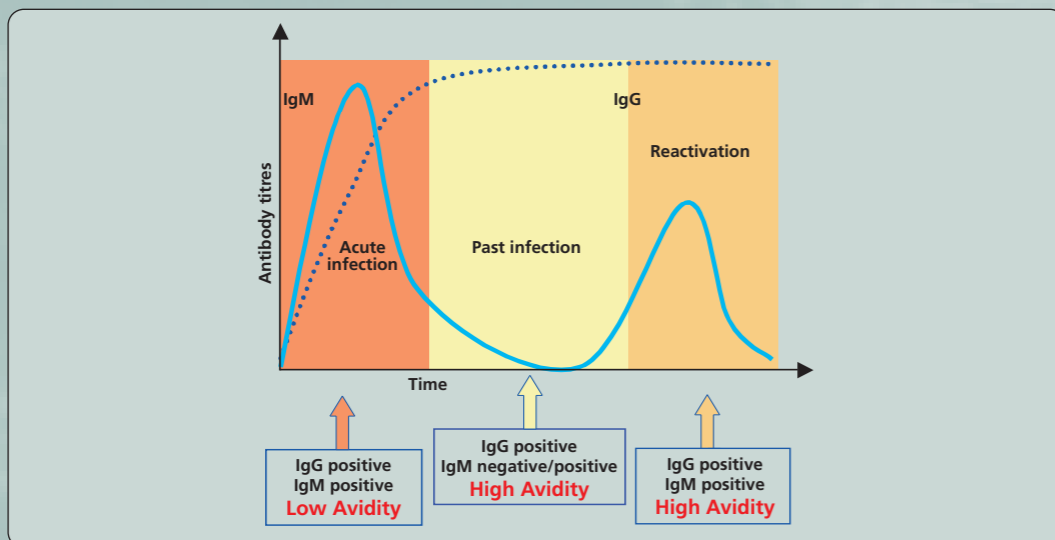
## LIAISON® IgG Avidity is the solution

# Confidence in Your Results

### Searching for diagnostic clarity: DiaSorin LIAISON Serology line

Human Cytomegalovirus (hCMV) is the most common cause of viral intrauterine infection. Fetal damage is mostly due to maternal primary infection. Intrauterine transmission of CMV is significantly reduced in immunoprotected mothers compared to primary infections contracted during pregnancy (< 2% vs 40-50%, respectively). As infections are either asymptomatic or accompanied by symptoms which are not specific for CMV, laboratory techniques are the sole means of diagnosing acute infections. However, the establishment of primary infection as opposed to reactivation, chronic infection, IgM persistency or polyclonal stimulation may be difficult on the basis of current classical CMV IgM and IgG detection.

DiaSorin LIAISON serology line has been developed to solve diagnostic ambiguities. Sensitive and quantitative CMV IgM, with highly specific and quantitative CMV IgG, both complemented by CMV avidity determination in a fully automated LIAISON assay environment, will allow the laboratory to report clear and unequivocal results. Positive IgM and low-avidity IgG are suggestive of primary infection, whereas high-avidity IgG indicates IgM presence due to persistency or reactivation. In addition, to avoid misinterpretation of positive, yet low IgM responses in primary infection, the IgM test will point to the need of IgG avidity determination to overrule primary infection.



IgG	IgM	Avidity	Diagnosis
Negative	Negative		No infection
Positive	Positive	Low	Acute infection
Positive	Positive	High	Reactivation/ Past infection
Positive	Negative		Past infection

### A unique selection of raw materials

- \* The presence of the main CMV antigenic determinants (pp28, pp150, pp52) ensures early detection of IgM and IgG antibodies



### Assay format ensures reliable results

- \* Determination of IgG Avidity Index solves the ambiguous cases
- \* Superior sensitivity allows detection of early infection
- \* Superior diagnostic and analytical specificity allows curbing of interference from EBV and rheumatoid factor (RF)
- \* Luminescence technology in combination with magnetic microparticles
- \* Wide measuring ranges
- \* Quantitative determination of IgG (IU/mL) and IgM (AU/mL)
- \* Controlled reagent cooling and incubation conditions

### Ease of use

- \* Full automation makes your daily routine convenient and easy
- \* Barcoded samples and reagents
- \* Two-point recalibration stable for 4 weeks
- \* Flexible assay protocols
- \* Continuous reagent inventory
- \* Calibrators included
- \* Ready-to-use reagent cartridge

### Flexibility enables quick results

- \* High throughput:
  - \* IgG: 90 results/hour
  - \* IgM: 50 results/hour
  - \* IgG Avidity: 30 results/hour
- \* Time to first result:
  - \* CMV IgG: 35 min
  - \* CMV IgM: 45 min
  - \* CMV IgG Avidity: 50 min
- \* Stored master curve
- \* Small sample volume

