Introduction

Despite improved neonatal care over the past decades, infections remain common and sometimes life-threatening in neonates admitted to the neonatal intensive care unit (NICU) (Stoll et al., 2005).

* The diagnosis of infection in a neonate remains challenging Signs and symptoms can be subtle, yet infections can evolve rapidly to sepsis with a potentially fatal outcome (*Fanoroff*, 2007).

For many years, a search has been ongoing to find predictors for neonatal sepsis that identify effectively patients who are at risk of infection (*Ahrens et al.*, 2004).

Low levels of certain proteins of the innate immune system at birth were recently indentified as being associated with neonatal sepsis . Of these proteins, mannose-binding lectin (MBL) (Swierzko 2009)

MBL activates the lectin pathway of the complement system by binding to various micro-organisms. This leads to opsonization and enhanced phagocytosis (*Dzwonek*, 2008).

Three structural mutations in exon-1 of the MBL2 gene interfere with the assembly of the protein and cause decreased functional MBL plasma levels (*Garre et al.*, 2003).

MBL deficiency has been associated with an increased susceptibility to infections (*Neth*, 2004).

The detection of MBL deficiency at birth should be based on actual MBL plasma levels rather than on MBL2 genotype (*Frakking et al.*, 2006).

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