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**Manuscript NO:** 46797

**Manuscript Type:** ORIGINAL ARTICLE

*Retrospective Cohort Study*

**Rituximab-induced IgG hypogammaglobulinemia in children with nephrotic syndrome and normal pre-treatment IgG values**

Pierluigi Marzuillo, Stefano Guarino, Tiziana Esposito, Anna Di Sessa, Sara Immacolata Orsini, Daniela Capalbo, Emanuele Miraglia del Giudice, Angela La Manna

**Abstract**

**BACKGROUND**

It has been shown in pediatric patients with complicated nephrotic syndrome (NS) that

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Author: P F K Yong, L Aslam, M Y Karim, Munthe...

Publish Year: 2008

## Hypogammaglobulinemia

Hypogammaglobulinemia is a problem with the immune system where not enough gamma globulins are produced in the blood. This leads to a lower antibody count, which impairs the immune system's ability to fight infection. Hypogammaglobulinemia may result from a variety of causes, including genetic immune system defects, such as common variable immunodeficiency, or it may be caused by secondary factors such as medication, blood cancer, or poor nutrition, or loss of protein in the urine, as in nonselective glomerular proteinuria. Patients with hypogammaglobulinemia have reduced immune function. Considerations include avoiding use of live vaccines, taking precautionary measures when traveling to regions with poor sanitation such as receiving immunizations, taking care in drinking only safe or boiled water, arranging appropriate medical advance of travel, and ensuring continuation of any necessary intravenous infusions needed.



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