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CASE REPORT

Severe disseminated mycobacterial infection in a boy with a novel mutation leading to IFN- γ R2 deficiency

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KEYWORDS

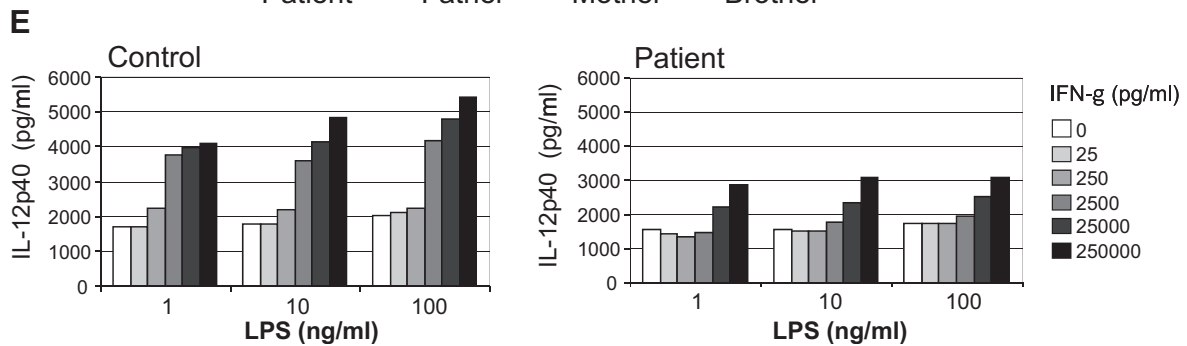
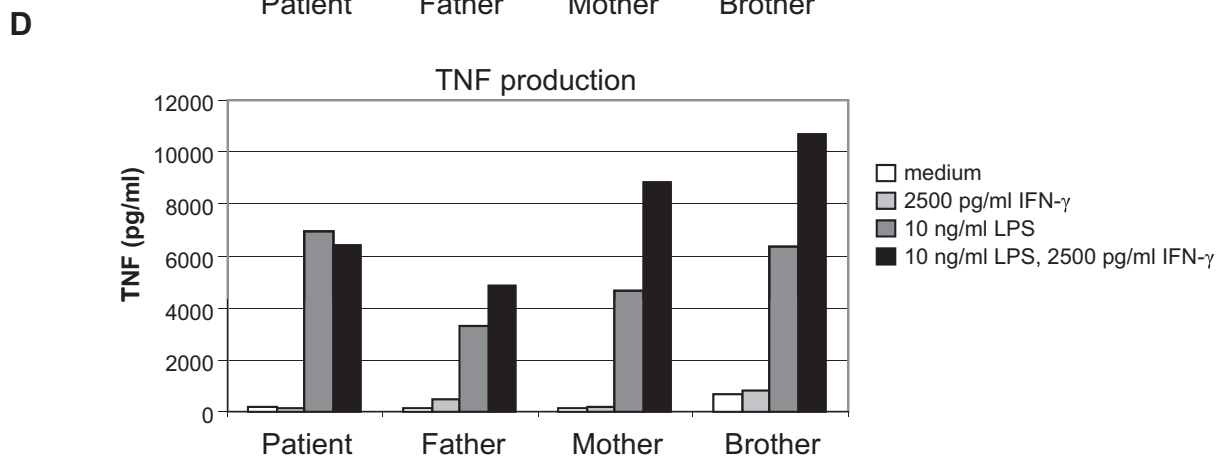
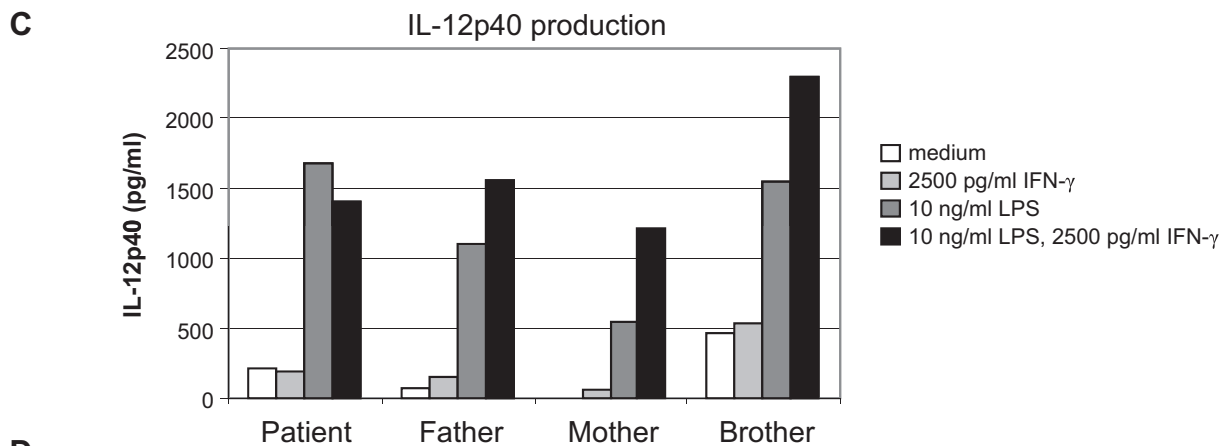
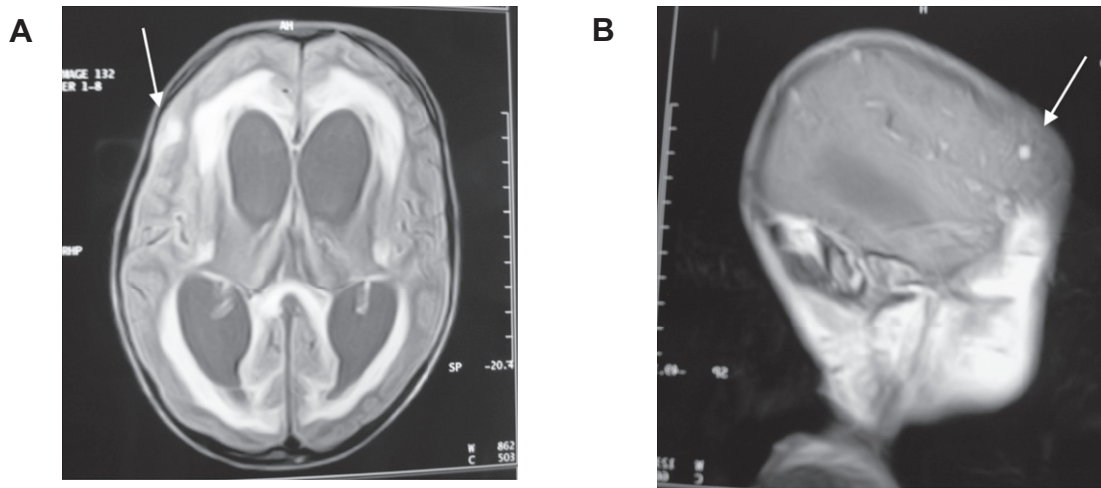
Mendelian susceptibility to mycobacterial disease;
IFN- γ R2;
Mycobacterial infection;
Mutation;
Immunodeficiency;
IFNGR2;
Primary immunodeficiency

Summary Mendelian susceptibility to mycobacterial diseases (MSMD) is a rare syndrome characterized by predisposition to severe, sometimes lethal, disease caused by otherwise poorly virulent mycobacteria. We report here a boy with a recurrent mycobacterial infection from the age of five months. Immunological analyses revealed an inability to respond to IFN- γ , subsequent genetic analyses revealed a novel homozygous mutation, r.679G > A in the *IFNGR2* gene, resulting in a G227R substitution, that caused IFN- γ R2 deficiency. This is only the 8th mutation in IFN- γ R2 known so far. The boy eventually died of hepatic coma due to liver failure at the age of five.

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