

MEETING ABSTRACT

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Severe combined immunodeficiency caused by defect of the common gamma chain of the interleukin 2 receptor

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Background

Severe combined immunodeficiency (SCID) is the most serious form of a group of diseases characterized by an abnormality in the development and / or function of T cells and may be associated with defects in B cells and Natural Killer cells.

Methods

Case report of a 2 years old male diagnosed with Severe Combined Immunodeficiency (SCID) at 5 months of age investigated to define the molecular basis of the disease due the untimely death of two siblings.

Results

The mutation detected was a defect of the common gamma chain of the interleukin 2 receptor (IL2R γ). Even though genetic counseling advised otherwise the patient's mother got pregnant during follow-up and as no compatible donor was found we chose to wait birth and verify compatibility. Genetic evaluation of the newborn revealed the absence of the IL2R γ gene defect in blood cord and a matching HLA. Cord stem cell transplantation was scheduled afterwards.

Conclusions

The patient's mutation is the most common variant (IL2R γ gene defect) in the X-linked expressed pattern of the XL T-B+NK-phenotype which corresponds to about 45% of severe combined immunodeficiency according to the literature.

Consent

Written informed consent was obtained from the patient for publication of this abstract and any accompanying images. A copy of the written consent is available for review by the Editor of this journal.

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