



POSTER PRESENTATION

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A refractory heterogeneous Cryopyrin-Associated Periodic Syndrome (CAPS) phenotype related to *V198M* mutation responds to canakinumab - a case report

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From 18th Pediatric Rheumatology European Society (PReS) Congress
Bruges, Belgium. 14-18 September 2011

Background

V198M mutation has been identified in more than one CAPS phenotype and is difficult to treat.

Aim

To report effects of prolonged selective IL-1 β inhibition with canakinumab in a CAPS phenotype related to *V198M* mutation.

Methods

A 9-year old boy, diagnosed with symptomatic MWS and evidence of a *V198M* mutation (father also *V198M*), only partially responsive to anakinra, participated in a phase III study of canakinumab in CAPS patients (N=166). Study treatment was 8-weekly administration of canakinumab by s.c. injection, 150 mg to adults and 2 mg/kg to patients ≤ 40 kg for up to 2 years. Administration frequency and dose (maximum 600 mg or 8 mg/kg [≤ 40 kg]) were increased in case of residual symptoms.

Results

After insufficient response to per-protocol canakinumab dose, the patient received high dose canakinumab (10 mg/kg, i.v.) every 4 weeks from Day 20 onwards to >440 days. Disease activity improved from severe to moderate at Day 48 and remained stable including normal CRP and SAA values (<10 mg/L). Temporary mild adverse events (AE) were not suspected to be treatment-related (upper respiratory

viral infection, gastroenteritis, and rhinitis). Night sweats, dry lips and skin persisted until last assessments. No serious AEs /infections were reported in this patient.

Conclusion

Based on our experience in this patient and a review of literature on efficacy of IL-1 inhibition in CAPS patients with *V198M* mutation, high dose canakinumab i.v.* with increased dosing frequency yields symptomatic relief without evidence of increased AE. Confirmation of our observation in more patients with similar genetic and clinical presentation is needed.

**The posology used for this case is not in line with the approved posology of canakinumab*

Published: 14 September 2011

doi:10.1186/1546-0096-9-S1-P9

Cite this article as: Hansmann *et al.*: A refractory heterogeneous Cryopyrin-Associated Periodic Syndrome (CAPS) phenotype related to *V198M* mutation responds to canakinumab - a case report. *Pediatric Rheumatology* 2011 **9**(Suppl 1):P9.

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