

03

MAR 2021

Wednesday

**WEBINAR**

via Webex\*

45' (talk) + 30' (discussion)

**3.00-4.15pm**



# SARS-CoV-2 caused Multisystem Inflammatory Syndrome in Children (MIS-C)

**ABSTRACT**

Initially, children were thought to be spared from disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). However, a month into the epidemic, a novel multisystem inflammatory syndrome in children (MIS-C) emerged. All MIS-C patients had evidence of prior SARS-CoV-2 exposure, mounting an antibody response with intact neutralization capability. Cytokine profiling identified elevated signatures of inflammation (IL-18 and IL-6), lymphocytic and myeloid chemotaxis and activation (CCL3, CCL4, and CDCP1), and mucosal immune dysregulation (IL-17A, CCL20, and CCL28). Immunophenotyping of peripheral blood revealed reductions of non-classical monocytes, and subsets of NK and T lymphocytes, suggesting extravasation to affected tissues. Finally, profiling the autoantigen reactivity of MIS-C plasma revealed both known disease-associated autoantibodies (anti-La) and novel candidates that recognize endothelial, gastrointestinal, and immune-cell antigens.



**SPEAKER**

**Prof Dusan BOGUNOVIC**

Director - Center for Inborn Errors of Immunity and Associate Professor, Icahn School of Medicine at Mount Sinai

**HOST:**

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