

Characteristics and Pulmonary Computerized Imaging Findings of Critically Ill Egyptian Patients with Multisystem Inflammatory Syndrome in Children

Hanan Ibrahim¹, Shaimaa Mohammad², Eman Fouda¹, Khaled Ahmed¹, Nevin Habeeb¹, Ahmed Rezk¹, Sondos Magdy¹, Ahmed Allam², and sanaa Mahmoud²

¹Ain Shams University Faculty of Medicine

²Ain Shams University

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Abstract

Objectives. This study was carried out to delineate the patients' characteristics and the imaging findings and their relation to some biochemical markers of 31 critically ill patients with MIS-C. **Design.** A retrospective cross-sectional study including all critically ill MIS-C children admitted to the PICU from June 23rd to July 22nd, 2020. **Results.** Eighteen males and thirteen females, with a median age of 9 years (interquartile range 6-11) presented mainly with fever (100%) and hypotension (100%). Abnormalities in the chest computed tomography were detected in 22 cases (71%). Consolidation and architecture distortion were detected in 58.1% of patients; bilateral lesions and lower lobe infiltrates, each, were evident in 64.5% , while the peripheral distribution of lesions was seen in 71% of the cases. Pleural thickening and effusion were found in 51.6% of the patients. In this small case series, the presence of high ferritin was significantly associated with the bilaterality of the lesions. Elevated C-reactive protein was associated with the peripheral distribution of the lesions, in addition, thrombocytopenia and hypoalbuminemia were significantly correlated with the CT disease stage and CT severity score respectively. **Conclusions.** Short and long-term follow up of MIS-C cases is not only needed for the follow up of clinical and laboratory abnormalities but also for the elucidation of the outcome of CT pulmonary findings.

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