

# Clinical presentation and CT features in pediatric patients with COVID-19 infection

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November 5, 2020

## Abstract

**Background:** The aim of this study includes to discuss the clinical, laboratory, and chest computed tomography (CT) in pediatric patients with 2019 novel coronavirus (COVID-19) infection. **Material and Methods:** The clinical, laboratory, and chest CT features of 17 pediatric inpatients with COVID-19 infection confirmed by pharyngeal swab COVID-19 polymerase chain reaction (PCR). All clinical and laboratory data have been recorded and analyzed during March-June 2020. Chest CT have been performed to all COVID-19 PCR confirmed patients and radiological view have been noted. **Results:** Seventeen pediatric patients with a history of close contact with COVID-19 diagnosed family members included to the study. Fever (10/17, 58%) and cough (13/17, 76%) were the most common symptoms. For laboratory findings, C-reactive protein elevation (15/17, 88%) seem to be the most finding. A total of 4 patients presented with unilateral pulmonary lesions (4/17, 23%), 9 with bilateral pulmonary lesions (9/17, 52%) and 13 cases showed bilateral diffuse COVID pattern on chest CT (13/17, 76%). Non-specific consolidation was observed in 8 patients (8/17, 47%), ground-glass opacities were observed in 11 patients (11/17, 64%), nodules were observed in 7 patients (7/17, 41%), and tiny nodules were observed in 2 patients (2/17, 11%). **Conclusion:** In pediatric patients with positive COVID-19 nucleic acid test from pharyngeal swab samples; the early detection of lesions by CT can be efficient; in management and early treatment for pediatric patients. However; early chest CT screening and COVID-19 PCR testing together can be more efficient in diagnosis. **Keywords:** COVID-19, viral pneumonia, chest computed tomography (CT), children.

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