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SPONTANEOUS PNEUMOTHORAX IN CHILDREN WITH COVID-19. CASE REPORT.

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Title of Case:

SPONTANEOUS PNEUMOTHORAX IN CHILDREN WITH COVID-19

Background:

Spontaneous pneumothorax is a rare complication of COVID-19 pneumonia. Isolated cases were described in pediatrics.

Case Presentation Summary:

4028 pediatric patients of Kyiv City Pediatric Infectious Hospital hospitalized with COVID-19 for 2020-2021 years there were 3 cases of spontaneous pneumothorax. We retrospectively analyzed those cases. All those patients were treated according to the guidelines and WHO/CDC recommendations.

8 years boy got to hospital on the 7th day of illness with complaints of fever, abdominal pain and diarrhea. From the 12th day there is a progress of respiratory disorders in form of decrease in saturation and increase in a cough. On the 35th day sharp deterioration takes place due to tense right-sided pneumothorax. Drainage is installed. In the following days condition progressively worsened due to manifestations of MOF and ended in death on the 38th day.

4 months boy got to hospital with impaired consciousness and breathing which were preceded by 4 days of minor manifestations of upper respiratory tract infection. No prior medical history. X-Ray showed bilateral lung involvement and left-sided pneumothorax. The chest cavity is drained, mechanical ventilation is carried out. In the next 7 days manifestations of RDS and MOF progressed to death.

3 months boy got to hospital from the 2nd day of illness with symptoms of moderate respiratory failure and received non-invasive respiratory support. From the 4th day condition worsened due to refractory shock. Sudden deterioration in respiratory function is admitted on the 9th day due to right-sided pneumothorax. From the 16th day, there was a positive dynamics with full recovery by the 30th day.

Learning Points/Discussion:

Spontaneous pneumothorax can complicate the COVID-19 in children. It can occur at different stages of disease and is associated with poor outcomes.

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