IMAGING IN INTENSIVE CARE MEDICINE



Shantha R. Valainathan¹, Damien Roux^{1,2}, Carole Almire³ and Béatrice La Combe^{1,2*}

© 2017 Springer-Verlag Berlin Heidelberg and ESICM

A 46-year-old woman, with no known underlying medical conditions, was admitted for a septic shock with acute respiratory distress syndrome. Influenza A non-H1N1 virus infection was confirmed by PCR on a respiratory sample with a high suspicion of bacterial co-infection despite negative bacterial culture.

Laboratory tests revealed microcytic anemia (8 g/ dl, mean cell volume 70 fl) and profound thrombopenia (13 G/L). Reticulocyte count was down to 5 G/L. No hemolysis was observed (total bilirubin 10 μ mol/l, haptoglobin 2.52 g/l, lactate deshydrogenase 347 IU/L). Fibrinogen concentration was 7.13 g/l. Triglyceride level was 10.48 mmol/L. Despite iron deficiency (iron concentration 1 μ mol/L, total iron binding capacity 37 μ mol/L, transferrin saturation coefficient 3%), ferritin concentration was unexpectedly in the normal range (169 μ g/L).

CrossMark

A myelogram revealed an erythroblastopenia (2% of erythroblast) and a hemophagocytic syndrome (Fig. 1). Parvovirus B19 PCR was negative. No other cause than flu infection was suspected. All PCR tests for respiratory viruses or intracellular bacteria were negative. She received a 7-day course of oseltamivir, cefotaxime, and spiramycin and recovered within 10 days. The platelet count and hemoglobin normalized within 8 and 34 days, respectively.





*Correspondence: beatrice.lacombe@aphp.fr

¹ Service de Réanimation médico-chirurgicale, Hôpital Louis Mourier,

AP-HP, Colombes, France

Full author information is available at the end of the article



To our knowledge, this is the first reported case of erythroblastopenia and hemophagocytic syndrome related to influenza virus infection.

Author details

¹ Service de Réanimation médico-chirurgicale, Hôpital Louis Mourier, AP-HP, Colombes, France. ² IAME, UMR 1137, INSERM, Université Paris Diderot, Sorbonne Paris Cité, Paris, France. ³ Service d'Immunologie-Hématologie, Hôpital Louis Mourier, AP-HP, Colombes, France.

Compliance with ethical standards

Conflicts of interest

On behalf of all authors, the corresponding author states that there is no conflict of interest.

Published online: 12 May 2017