

JOURNAL READING INFEKSI CACING Ascariasis



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CASE REPORT: RESPIRATORY FAILURE ASSOCIATED WITH ASCARIASIS IN A PATIENT WITH IMMUNODEFICIENCY

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Introduction

 In Europe, ascariasis is a rare condition affecting mostly rural citizens (1.2%) and people who are in regular contact with pigs for professional reasons. In Poland, the prevalence of A. lumbricoides in humans does not exceed 1% and concerns mainly children from rural areas

- Risk groups for parasitic diseases (e.g., A. lumbricoides infection) include patients with immunodeficiency
- In this study present an unusual ascariasis and respiratory failure in a patient with acute myeloblastic leukemia (AML)

Case on presentation

- 66-y.o male was admitted to the Department of Haematology
- History: coughing, a recurrent low-grade fever, night sweats, malaise, and weakness
- Physical examiantion: bilateral lymphadenopathy: cervical, axillary, numerous inguinal nodes, single crackles at the base of both lungs, no hepatomegaly, and mild splenomegaly.
- Laboratory studies: increased inflammatory parameters, anemia and thrombocytopenia, blasts in the blood smear, and negative bacteriological results concerning the presence of aerobic and anaerobic bacteria
- Microscopic of stool: negative for helminthic ova
- Chest X ray: no indication of infiltrates in the lungs or pneumothorax
- Cytologis analysis of BM: in December 2012, the patient was diagnosed with acute myeloblastic leukemia.

Dec 2012

7th day of hospitalization

- Patient was moved to the Intensive Care Unit (ICU) due to acute respiratory and circulatory failure
- Vital sign: HR is 130/min, RR is 150/110mmHg, and oxygen saturation is 92-94% on an oxygen mask with a reservoir, at a flow rate of 15L/min
- Physical examination: individual crackles at the base of the lungs, including single crackles towards the angles of the blades and increased vesicular murmur over the whole lung.
- Chest X-rays showed bilateral multiple scattered airless changes, most likely associated with inflammations.

 General condition of patient got improved and move out from ICU then The patient was qualified for intensive chemotherapy

Jan 2013

March 2013

- a mature form of Ascaris spp. appeared in the patient's mouth
- Stereo macroscopic examination: male roundworm,15cm long and 2.5mm diameter
- Tx: Pirantel
- Patient denied eating unwashed fruits and vegetables, but two weeks prior to the onset of respiratory failure (December 2012) he had removed the feces of pigs at a farm.

Discussion

- This report highlights the importance of considering an Ascaris infection in patients with low immunity presenting no eosinophilia but pulmonary failure in the central countries of Europe
- Symptomatic pulmonary ascariasis is characterized by a dry cough, low fever, dyspnea, bronchial asthma, and wheezing (Loffler syndrome), occurs 4 to 16 days after ingesting embryonated round worm eggs
- chest X-rays shows fleeting infiltrates that may develop peripheral confluence and intra-alveolar hemorrhage, and exudate may also be present (associated with larva emigration).

Conclusion

- This case of respiratory failure in a patient with AML, probably induced by human Ascaris infestation, is rather rarely discussed
- physicians should pay more attention to the possibility of this disease and reduce the risk of misdiagnosis in this regard