Clinical Image

Reversed Halo Sign: What Lies Beneath?

Signo del halo invertido: ¿qué hay debajo?

Luisa María Nascimento,* Ana Fernandes

Servicio de Neumología, Centro Hospitalario de Trás-os-Montes e Alto Douro, Vila Real, Portugal

We report the case of a 63-year-old man, non-smoker, who presented in the emergency room with acute onset of dyspnea and fever. A chest X-ray showed a roughly nodular opacity in the right perihilar region (Fig. 1A), so the patient was admitted to a medical department with a diagnosis of pneumonia. Due to clinical worsening despite broad-spectrum antibiotic coverage, a chest CT was performed which showed a reversed halo sign (RHS) in the right lung (Fig. 1B). This prompted an extensive investigation including a CT pulmonary angiography that demonstrated the presence of a thrombus in the right main pulmonary artery (Fig. 1C).

The RHS or atoll sign is characterized by a central ground-glass opacity surrounded by denser air-space consolidation in the shape of a crescent or a ring.1 Although it was initially considered a pathognomonic sign for organizing pneumonia, this manifestation has been associated with a wide range of infectious and non-infectious diseases, including pulmonary embolism (PE).1 In the latter, the RHS seems to correspond to pulmonary infarction in PE2 and diagnosis should be based on clinical and radiological findings.

References


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* Corresponding author.

E-mail address: lu_maria_nascimento@hotmail.com (L.M. Nascimento).