



IMAGES IN INTENSIVE MEDICINE

Contrast media extravasation mimicking subarachnoid hemorrhage due to hypertensive encephalopathy

Extravasación de agente de contraste que simula una hemorragia subaracnoidea debido a encefalopatía hipertensiva

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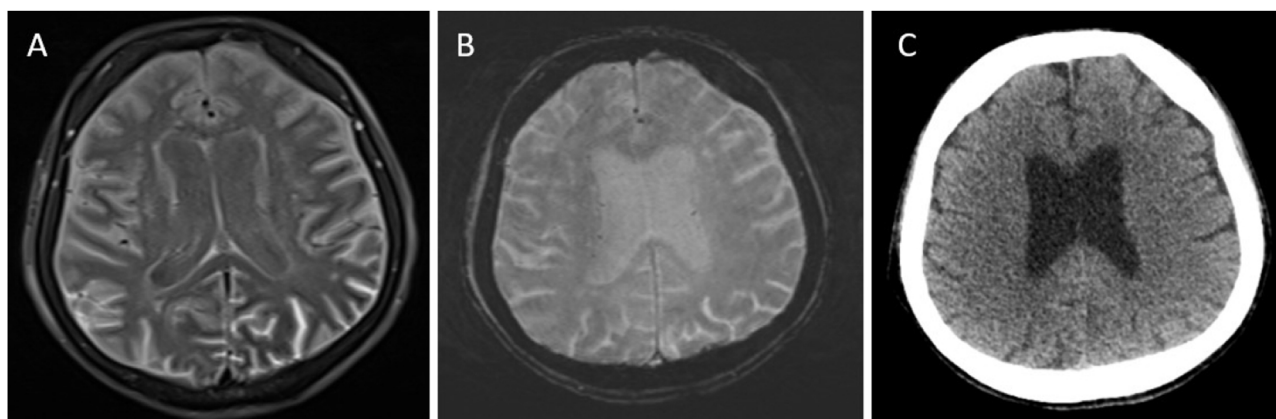


Figure 1

A 65-year-old female monitored in the ICU for severe hypertension (225/120 mmHg) developed sulcal hyperintensities on FLAIR on day one after contrast-enhanced MRI, raising suspicion of subarachnoid hemorrhage (SAH) (Fig. 1A). However, SWI and CT showed no hemorrhage (Fig. 1B and C). The findings were attributed to gadolinium leakage, confirmed by normalization on follow-up imaging. Recognizing this prevents misdiagnosis and unnecessary interventions. This case highlights that conditions leading to blood-brain barrier disruption may allow gadolinium to leak into the subarachnoid space, which may mimic SAH on FLAIR sequences obtained after contrast-enhanced MRI. In such cases, the use of additional imaging modalities, such as CT and SWI, is crucial to avoid misdiagnosis and unnecessary interventions.

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Declaration of competing interest

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