History
5 week old with fever, leukocytosis and “full” fontanelle

Diagnosis
Citrobacter meningoencephalitis

Discussion
Citrobacter is a facultative anaerobic gram negative bacillus found in the intestinal tract and an exceedingly rare form of meningoencephalitis. Vertical transmission during the birth process is suspected but the source of infection cannot be identified in most cases. Citrobacter is the most common etiology for a brain abscess in a neonate; brain abscesses occur in 75% of patients with Citrobacter meningitis. Significant short-term and long-term neurological complications can be expected.

Findings
US-Coronal high resolution anterior image reveals echogenic intraventricular CSF. Sagittal and coronal images show circumscribed left frontal abscess with fluid/debris level.
MR-Axial post-gadolinium T2 FLAIR and diffusion/ADC
Clinical-CSF and abscess specimens

Reference

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