Granulocytic sarcoma of the choroid plexus complicating acute leukemia
Caroline Apra, Pierre Bourdillon

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Authors: Caroline Apra¹,²,³, MD, MSc, Pierre Bourdillon¹,²,³,⁴, MD, MSc

1- Sorbonne Universités, Université Pierre et Marie Curie, Paris, France
2- Brain and Spine Institute, INSERM U1127, CNRS 7225, Paris, France
3- Hospices Civils de Lyon, Hospital for neurology and neurosurgery Pierre Wertheimer, Department of Neurosurgery, Lyon, France
4- Université de Lyon, Université Claude Bernard, Lyon, France

Corresponding author:

Caroline Apra
Brain and Spine Institute - Institut du Cerveau et de la Moelle
47, bd de l’Hôpital – 75013 Paris
tel: 0033-782280423
caroline.apra@neurochirurgie.fr

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Granulocytic sarcoma of the choroid plexus complicating acute leukemia

A 38-year old patient with type 5 acute myeloid leukemia relapsed after four years of treatment including chemotherapy and bone marrow transplant. He underwent imaging for vertigo, with an otherwise normal neurological examination.

Brain MRI showed diffuse choroid plexus enlargement, without hydrocephalus, a rare typical image of granulocytic sarcoma (figure A)\(^1\).

The patient also had spine MRI, to explore right L5 radiculopathy, which showed signs of meningitis with radicular and diffuse epidural enhancement (figure B).

Granulocytic sarcoma, or chloroma, is a tumor composed of immature granulocytes, associated with systemic leukemia, usually acute myelogenous leukemia. Common locations are soft tissues, bone, peritoneum and lymph nodes.

References:


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Figure A: Brain MRI showing granulocytic sarcoma of the choroid plexus

Brain MRI showing gadolinium-enhanced T1 sequences and T2*. Choroid plexuses are diffusely enlarged (arrows), without hydrocephalus. Note that there is no associated meningeal lesion.

Figure B: Lumbar MRI showing signs of neoplastic meningitis

Lumbar MRI showing epidural infiltration in the cauda equina (green arrow) and enlargement with enhancement of L5 (red arrows).