Deep Medullary Vein Thrombosis in Neonate: A Peculiar MRI Pattern

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A full-term neonate with 15 days of life, without perinatal complications, and normal Apgar score (10) at the first and five minutes. She had difficulty breastfeeding and weight loss (25%) in the first week. Furthermore, she presented encephalopathy, hypertensive dehydration (sodium: 154 mEq/L), acute renal failure (creatinine: 1.9 mg/dL) and hypoglycemia (glucose: 42 mg/dl). The newborn metabolic screening was negative. MRI brain showed hemorrhage in the cerebral white matter (WM), with right predominance, in addition to subcortical WM and corpus callosum restricted diffusion, related to ischemia (Figure 1). The radiating fan-shaped hemorrhages is compatible with deep medullary vein thrombosis\(^1\)\(^2\).

**Appendix 1: Authors**

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ana Paula Alves Fonseca</td>
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<td>Design and conceptualized study; analyzed the data; drafted the manuscript for intellectual content</td>
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**References**


**Figure Title:** The image pattern of deep medullary vein thrombosis.

**Figure Legends:**

MRI showing hemorrhage in the cerebral WM, demonstrate on SWI sequence (a) and T1WI (b), with fan-shaped pattern on T2WI (white arrow in c) and cortex-sparing (head arrow in c). Furthermore, subcortical WM and corpus callosum ischemia, with restricted diffusion on DWI (black arrows, d and e) and ADC (f).
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