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## Cerebral venous sinus thrombosis in neonates

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Neonatal cerebral sinovenous thrombosis (CSVT) is a life-threatening neurological disorder. Neonates represent up to 50% of all reported pediatric cases. CSVT is increasingly recognized in neonatal practice. This study presents two newborns with CSVT from our neonatal center and analyzes their clinical findings. The first newborn (female) was admitted in the 6th day of life because of deterioration of consciousness and the occurrence of recurrent seizures. Magnetic resonance venography demonstrated thrombosis of the right transverse sinus and the left transverse and sigmoid sinus, hemorrhagic infarcts and parenchymal hemorrhage. The patient had difficult clinical course and received anticoagulation therapy. She had neurological deficits at discharge from the hospital (periventricular leukomalacia, epilepsy). Second newborn (male) was admitted in a 3-day because of motor weakness, an episode of seizures and the central facial paresis. There was no disturbance of consciousness. Magnetic resonance venography showed thrombosis of the left transverse and sigmoid sinus. There were no signs of intracranial hemorrhage. The patient had mild clinical course and was not treated with anticoagulation therapy. He had a discrete neurological deficit at discharge from the hospital. In both patients, the diagnoses of hypercoagulable diseases were set (first newborn- protein S deficiency, the second- thrombophilia). They have a positive family history of hypercoagulable disease. CSVT presents with wide spectrum of neurological signs. Hypercoagulable state was the most common predisposing factor for CSVT. Newborns with neurological signs and positive family history of hypercoagulable disease should be tested on CSVT.

### Biography

Lidija Banjac is a Specialist in the field of Pediatrics and Neonatology. She has completed her PhD at Montenegro University School of Medicine. She is Head of the Department of Neonatology and Assistant Professor at the Medical faculty in Podgorica. She has published more than 40 papers in journals in the field of Pediatrics and Neonatology.

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