Neurocutaneous melanosis: a rare manifestation of congenital melanocytic nevus

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DESCRIPTION

A newborn baby presented with a large melanocytic nevus covering the suprapubic, inguinal and thigh regions as well as numerous satellite lesions on the torso, shoulders and legs (figure 1). MRI of the brain demonstrated areas of T1 and T2 hyperintensity within the bilateral hippocampi, choroid plexus and left cerebellum (figure 2). MRI of the spine revealed a small T1 hyperintense nodule along the cauda equina at the L2 level (figure 2). Lumbar puncture with cytology was negative for malignancy. Together with the multiple melanocytic nevi, these central nervous system (CNS) lesions are consistent with neurocutaneous melanosis (NCM). The patient demonstrated no focal neurologic deficits in infancy and was discharged at 9 days of life. The patient is currently meeting developmental milestones for age, but he developed global hypertonia by 4 months of life. He is being followed on an outpatient basis by paediatric neurology and paediatric dermatology, and he is now 18 months old and meeting developmental milestones for age.

NCM should be suspected when a patient presents with large congenital melanocytic nevus (CMN) or CMN with multiple satellite nevi. Large CMN are those over 40 cm² in area. Large CMN having more satellite lesions are correlated with higher risk of NCM.1 NCM is diagnosed when there are lesions anywhere in the central nervous system. The diagnostic test of choice is MRI with gadolinium contrast of the brain and spine. Typical findings include hyperintense areas on the temporal lobes on T1-weighted imaging as well as leptomeningeal enhancement.2 Melanomas can also be visualised in the CNS. NCM has a poor prognosis and majority of the patients die.
within 3 years of birth.\(^3\) Therefore, a timely diagnosis is pertinent to ensure maximal quality of life in the remaining time.

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