To the Editor,
43 year old man diagnosed as Burkitt’s lymphoma. He had no evidence of central nervous system (CNS) involvement. He was treated by CODOX-M/IVAC regimen with excellent response. In the last cycle he complained of nausea and hiccups the day following the intrathecal treatment. Cerebral MRI was reported as leptomeningeal involvement (Figure 1a). There was no evidence of lymphomatous infiltration in cerebrospinal fluid sample by cytologically, flow cytometrically and also biochemically. His symptoms resolved within 3 days and he was accepted as leptomeningeal reaction associated with intrathecal treatment. There was no evidence of meningeal involvement at cerebral MRI after 2 months (Figure 1b).

Discussion
Cerebral MRI is the most commonly used imaging method in cases with CNS involvement (1, 2). Leptomeningeal involvement is relatively rare but important clinical entity and needs intrathecal treatment (3). However intrathecal treatment may be used in cases without leptomeningeal involvement for the aim of prophylaxis in cases with systemic lymphoma with high risk of CNS involvement like Burkitt’s lymphoma as in our case (4). We used intrathecal treatment in first 3 cycles without complication. However in the last cycle patient complained from vertigo and we ordered MR with lymphoma suspicion but there was no evidence of cerebral lymphoma but radiologists reported leptomeningeal involvement. It is well known that contrast-enhanced MRI of the brain showing patchy meningeal enhancement and thickening is suggestive of pachymeningitis and also chronic infections (5, 6). Our case suggested that intrathecal treatment may mimick meningeal involvement and this must be remembered in cases performed intrathecal drug.
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Ethical approval: All procedures performed in studies involving human participants were in accordance with the ethical standards of the institutional and/or national research committee and with the 1964 Helsinki declaration and its later amendments or comparable ethical standards. Patient has been informed about paper and permission has been taken.

References