A 69-year-old woman presented with 1 month of rapid cognitive decline preceded by 1 year of very mild memory changes. Examination showed impaired attention, logopenic aphasia, anosognosia, simultagnosia, graphesthesia, and apraxia. Neuroimaging demonstrated leptomeningeal enhancement without significant parenchymal lesions or cerebral microbleeds (figure 1). A lymphocytic pleocytosis (15 nucleated cells/μL) was noted on CSF analysis. Extensive diagnostic testing was inconclusive, including flow cytometry and cytology, conventional angiography, body CT, and PET. Cerebral amyloid angiopathy–related inflammation (CAA-RI) was confirmed on brain biopsy (figure 2). CAA-RI rarely presents with isolated leptomeningeal enhancement and can be a challenging diagnosis.1,2

**AUTHOR CONTRIBUTIONS**

Dr. Kang: design and conceptualization, obtaining images, drafting, revision and final submission of manuscript. Dr. Bucelli: design and conceptualization, revision of manuscript. Dr. Ferguson: histopathologic analysis, obtaining images, revision of manuscript. Dr. Corbo: histopathologic analysis, obtaining images, revision of manuscript. Dr. Kim: design and conceptualization, revision of manuscript. Dr. Day: design and conceptualization, obtaining images, revision of manuscript.

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**REFERENCES**


(A) Parenchymal gliosis and perivascular inflammation without overt angiitis. (B) β-Amyloid immunostain demonstrates amyloid angiopathy (arrows) and plaque (arrowhead). (C) CD3 and CD68 immunostains show no definite angioinvasion by immune cells.
Teaching NeuroImages: Cerebral amyloid angiopathy–related inflammation presenting with isolated leptomeningitis
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