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A 70-year-old woman presented with confusion and hemianopia. A ring-enhancing lesion revealed on MRI (figure), thought to be suggestive of lymphoma or high-grade glioma, demonstrated demyelination on biopsy. Two further biopsies due to suspicion of malignancy both confirmed demyelination. Retrospectively, the enhancement pattern on the original MRI demonstrated an “open ring” previously described in large, demyelinating lesions and of assistance in distinguishing them from tumor.1,2 Typically the ring is crescentic, involving white matter, and its open section verges on the gray matter of the cortex or basal ganglia.1,2 The sign is highly specific for demyelination.2

REFERENCES

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Teaching NeuroImage: Open-ring imaging sign in a case of tumefactive cerebral demyelination
P. D. Smith, M. J. Cook, N. M. Trost, et al.
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