



From the Editor

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Innovations in Care Delivery strives to highlight articles that feature advances in care delivery in our Editor's Blog, Editor's Top 5 Recommended Reading, and Latest Articles sections. Periodically, we also include interviews with leaders in the field of health services research.

Editor's blog

Innovations in Care Delivery blogs over the last several months have discussed articles about studying epilepsy diagnosis and treatment in big data sources, a promising technique for earlier diagnosis of amyotrophic lateral sclerosis, and the use of optical coherence imaging testing for the diagnosis of a prior unilateral optic neuritis. Our goal is to highlight health services research articles published in *Neurology*[®] or *Neurology*[®] *Clinical Practice* as well as to give opinions by experts in the field.

Editor's Top 5 Recommended Reading and Latest Articles sections

Check out our collection of *Neurology* articles related to innovations in care delivery.

A recent article by Culpepper et al.¹ examines validating an algorithm for identifying multiple sclerosis (MS) cases in administrative health claims datasets. Robust case identification is critical for large data studies. The author describes a preferred algorithm of 3 or more MS-related claims from a combination of inpatient, outpatient, or DMT, resulting in a sensitivity of 86.6%–96.0% and specificity of 66.7%–99.0%.

Another addition is an article by González Otárola et al.² about automated seizure detection accuracy for ambulatory EEG recordings. Of 1,257 ambulatory EEG studies, clinicians identified seizures in 70 patients (5.6%), of whom 67 were already known to have seizures. Importantly, the clinicians were not blinded to the patients' history and used automatic detection and technologists' annotations. The automated detectors correctly identified seizures in 37 (2.5%) patients and were typically better at identifying generalized seizures as opposed to focal seizures.

References

1. Culpepper WJ, Marrie RA, Langer-Gould A, et al. Validation of an algorithm for identifying MS cases in administrative health claims datasets. *Neurology* 2019;92:e1016–e1028.
2. González Otárola KA, Mikhaeil-Demo Y, Bachman EM, et al. Automated seizure detection accuracy for ambulatory EEG recordings. *Neurology Epub* 2019 March 6.



Blog

Read the Innovations in Care Delivery blog for timely posts by the editors and invited guests on *Neurology* articles. [NPub.org/icdblog](https://www.neurology.org/innovations)

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What's happening in Innovations in Care Delivery

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