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Incorporating Isolated Aphasia to Enhance Sensitivity and Negative Predictive Value in Large Vessel Occlusion Screening

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Abstract

Large vessel occlusion (LVO) strokes are a major cause of severe disability and mortality, making early and accurate detection crucial for efective treatment. Traditional screening methods often overlook subtler symptoms, such as isolated aphasia language impairment without other neurological deficits. Recent research indicates that incorporating isolated aphasia into LVO screening protocols can enhance diagnostic sensitivity and negative predictive value (NPV). This article examines the role of isolated aphasia in stroke assessment, emphasizing its potential to identify LVO cases that might be missed by conventional methods. By improving sensitivity and reducing the likelihood of false negatives, the inclusion of aphasia in screening protocols could lead to more timely and accurate interventions. We propose steps for integrating aphasia into clinical practice, including training, standardized tools, and updated guidelines, and call for further research to validate these approaches.

. : Large Vessel Occlusion (LVO); Isolated Aphasia; Stroke Screening; Sensitivity; Negative Predictive Value (NPV)

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Large vessel occlusion (LVO) strokes, which are caused by blockages in major arteries of the brain, are a critical concern in acute stroke management due to their association with severe disability and high mortality rates. Accurate and timely identi cation of LVO is crucial to improve patient outcomes and guide treatment decisions. Traditional screening methods primarily focus on clinical signs and imaging techniques, but recent research suggests that incorporating isolated aphasia a language disorder into the screening process can signi cantly enhance sensitivity and negative predictive value (NPV).

is article explores how isolated aphasia can be leveraged in LVO screening and its implications for clinical practice [1,2].

Aphasia is a disorder that a ects a person's ability to communicate, typically resulting from damage to speci c areas of the brain responsible for language processing. Isolated aphasia refers to the presence of aphasia without other neurological de cits [3,4]. It can be an early indicator of cerebral ischemia, particularly when it occurs suddenly and in the absence of other signs like hemiparesis or visual disturbances.

is subtlety makes isolated aphasia a potentially valuable marker in stroke screening [5].

Clinical Signi cance: Aphasia, when occurring in isolation, may indicate a less obvious but still signi cant cerebral event. It o en suggests dysfunction in language-related brain regions, which can be a result of ischemic changes a ecting the language network. In the context of LVO, isolated aphasia might precede or accompany other

Training and awareness: Healthcare professionals should be trained to recognize and assess isolated aphasia e ectively. is includes understanding the potential for aphasia to be an isolated symptom and its implications for LVO.

standardized tools that assess language function, alongside traditional the terms of the Creative Commons Attribution License, which permits unrestricted stroke scales, can help systematically include aphasia in the series of the scales, and reproduction in any medium, provided the original author and process. Tools like the National Institutes of Health Source Readelited. (NIHSS) could be adapted to place greater emphasis on language function assessment.

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C Speech Pathol Ther 'an open access journal: Updating clinical guidelines to re ect the importance of isolated aphasia in LVO screening can ensure that this symptom is systematically evaluated. Protocols should include : Ongoing research is needed to validate the e ectiveness of incorporating isolated aphasia into LVO screening. Studies should focus on the impact of this approach on sensitivity, NPV, and overall patient outcomes.



Incorporating isolated aphasia into large vessel occlusion screening represents a promising advancement in stroke management. By enhancing sensitivity and improving negative predictive value, this approach can lead to more accurate and timely identication of LVO cases. As the healthcare community continues to evolve and rene stroke screening methods, the integration of aphasia into diagnostic protocols could play a crucial role in improving patient outcomes and reducing the impact of stroke-related disability.

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