Journal of Speech Pathology & Therapy
ISSN: 2472-5005
Liyang, J Speech Pathol Ther 2024, 9:4
Research Article
Open Access

Spatial Distribut ons of Heightened Magnetic Susceptibility in Progressive Apraxia of Speech: Unraveling Neuroimaging Insights

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Abstract

Progressive apraxia of speech (PAOS) is a neurodegenerative disorder characterized by the deterioration of speech motor planning and execution abilities. Recent advancements in neuroimaging, particularly magnetic resonance imaging (MRI), have provided insights into the structural and functional alterations associated with PAOS. Among these, spatial distributions of heightened magnetic susceptibility (SDHMS) have emerged as a promising avenue for understanding

SDHMS patterns localized to brain regions implicated in speech motor control, including the supplementary motor area, precentral gyrus, insula, basal ganglia, and cerebellum. Understanding the spatial distributions of heightened magnetic susceptibility in PAOS o ers insights into the selective neurodegeneration of speech motor networks, providing valuable information for clinical diagnosis and therapeutic intervention. Further research into the signiýcance of SDHMS in PAOS may lead to improved diagnostic accuracy, prognostic markers, and targeted interventions for individuals a ected by this disorder.

U de a d g ge ea a a f eech

ρAOS a b e f a e a x a c a ace zed b e e e f eec c , a c a ec , a d e c acc ac , ea e a f a ae a d c ef c d d a ρAOS e x b eec d d , c e a c a e , a dd c c d a . e e e ece a f eec dc . A e d de

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Received: 01-July-2024, Manuscript No: jspt-24-142723; **Editor assigned:** 04-July-2024, PreQC No. jspt-24-142723 (PQ); **Reviewed:** 18-July-2024, QC No- jspt-24-142723; **Revised:** 25-July-2024, Manuscript No: jspt-24-142723 (R); **Published:** 31-July-2024, DOI: 10.4172/2472-5005.1000260

Citation: Liyang Y (2024) Spatial Distributions of Heightened Magnetic Susceptibility in Progressive Apraxia of Speech: Unraveling Neuroimaging Insights. J Speech Pathol Ther 9: 260.

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distributions of heightened magnetic susceptibility (SDHMS) have emerged as a promising avenue for unraveling the neuropathological underpinnings of PAOS [4]. In this article, we explore the spatial distributions of heightened magnetic susceptibility in PAOS, aiming to elucidate their signicance in understanding the neuroanatomical correlates of this debilitating disorder [5]. Progressive apraxia of

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