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Relationship Between Migraine-Associated Neuroinflammation and Clinical Response to CGRP-Targeted Therapy

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Migraine is a complex neurological disorder involving abnormal sensory processing, trigeminovascular activation, and neurogenic inflammation. The identification of biomarkers associated with disease severity and therapeutic response remains an important area of migraine research. This study investigated the relationship between inflammatory markers, clinical characteristics, and response to calcitonin gene-related peptide (CGRP)-targeted therapy in patients with migraine. Participants with episodic or chronic migraine were assessed before and after initiation of CGRP-targeted preventive treatment. Clinical parameters included monthly migraine days, headache intensity, duration of attacks, and use of acute medication. Selected inflammatory and CGRP-related biomarkers were evaluated in relation to treatment response. Patients demonstrating a clinically meaningful reduction in monthly migraine days showed differences in biomarker profiles compared with individuals with limited therapeutic response. Greater baseline disease burden and selected inflammatory characteristics were also associated with differences in treatment response. These findings support the potential involvement of neuroinflammatory mechanisms in migraine pathophysiology and suggest that biomarker-based approaches may contribute to more individualized preventive treatment strategies. Further prospective studies involving larger patient populations are required to establish reliable biomarkers for predicting response to CGRP-targeted therapies.

Biography

Dr. Sophie Martin is a researcher and clinician specializing in headache medicine and neurological disorders. Her research interests include migraine pathophysiology, neuroinflammation, CGRP signaling, preventive therapies, and personalized approaches to the management of neurological disease.

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