Patient body composition and health: the connection to frequency, intensity, and type of headache

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Brain and spinal cord tumors cause great discomfort for patients, namely severe headaches that often disrupt quality of life. In 2020, over 308,000 patients were diagnosed with a primary brain or spinal cord tumor, many of whom require invasive procedures like Craniotomies to access and resect the tumor. The objective of this study was to assess the correlation between headache occurrence, intensity and subtype to patient demographic information and CT-MRI scan results. We aim to establish a retrospective quality outcomes database to examine the outcomes of patients from the Mecklenburg Neurology Group that experienced discomforting headaches between October and November of 2022. All statistical analysis will be performed with IBM SPSS v26.0 (IBM, Armonk, NY) at an alpha value of 0.05. A qualitative and quantitative comparison among admitted patients is to be performed. Ordinal variables can be compared using a Mann–Whitney U test with two-sided and one-sided comparisons and exact significance values corrected for ties reported. Factors that are analyzed include frequency and intensity of headache, type of headache (i.e. Chronic Tension Headache), Neuro-Imaging Study results, age, weight and BMI. Ultimately, we hope to find significant correlations between the frequency, intensity, and type of headache and its relation to patient demographic information, and apply this to the greater Charlotte metro area.