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| **Regional Sleep Disorders Centre Resource Utilisation for Motor Neurone Disease** |
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| **Introduction/Aim:** Motor neurone disease (MND) results in impairments in ventilation, communication, mobility and swallowing. The Gold Coast University Hospital Sleep Disorders Centre (GCUH SDC) receives referrals for respiratory failure and coordinates institution of non-invasive ventilation (NIV) for patients with MND. This retrospective audit seeks to quantify the sleep scientist human resources used for patients with MND in a regional tertiary SDC. **Methods:** Data was extracted from the GCUH SDC database for 10 years to June 2023 and all sleep scientist encounters. The total number, median and interquartile ranges (IQR) of sleep scientist interactions per patient with MND, duration over which these occurred, and age at time of first interaction was determined. Direct comparison was made with non-MND data. **Results:** Individuals with MND (n=67) had a total of 751 scientist encounters. They accounted for 1.47% of patients managed by the SDC, but almost double the interactions (2.72%). Of 67 patients with MND, 61% (n=41) were male. Median age at first interaction was 66.9 years (IQR 59.1-73.0). Median interaction count was 6.0 interactions (IQR 3.0-12.5). These interactions occurred over a median time span of 153.0 days (IQR 14.5-544.5). During the same period, there were 4495 patients (56% male) without MND across a total of 26815 interactions. Median age at first interaction for patients with a non-MND diagnosis was 61.9 years (IQR 49.6-71.1), median interaction count 4.0 interactions (IQR 2.0-7.0) and median interaction time span 129.0 days (IQR 6.0-1013.5).**Conclusion:** Caring for patients with MND incurs considerably more time and labour compared with other sleep disorders and is not currently provided for in a SDC primarily designed for management of sleep apnoea. Our study is the first step in recognising an urgent need for increased allocation of human resources dedicated for patients with MND, not just in tertiary metropolitan hospitals but also regional health services. **Grant Support:** NilKeywords: MND, ventilation, human resources |