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Muenzer et al. Orphanet Journal of Rare Diseases (2025) 20:319 https://doi.org/10.1186/s13023-024-03464+8 Orphanet Journal of Rare Diseases RESEARCH **Open Access** Check fo Unmet needs of adults living with mucopolysaccharidosis II: data from the Hunter Outcome Survey Joseph Muenzer¹¹, Hernan Amartino², Roberto Giugliani³, Paul Harmatz⁴, Shuan-Pel Lin⁵, Bianca Link⁶, David Molter⁷, Uma Ramaswami⁸, Maurizio Scarpa⁹, Jaco Botha¹⁰, Jennifer Audi^{10,12} and Barbara K. Burton¹¹ Abstract Background Mucopolysaccharidosis II (MPS II) is a rare, life-limiting lysosomal storage disease caused by deficient iduronate-sulfatase activity. The current standard of care for MPS II is intravenous enzyme replacement therapy (ERT), which has been shown to improve somatic signs and symptoms and to increase IIfe expectancy by approxi-mately 12 years. This study reported on the somatic disease burden and clinical requirements of adult male patients in the Hunter Outcome Survey (ClinicalTrials.gov Identifier: NCT03292887). Results: Of the 373 patients in the analysis, 88 (23.6%) had cognitive impairment and 332 (89.0%) had received ERT. Aimost half of all ERT-treated patients (47.0%) had undergone surgery in adulthood; the most common sur-gery was hernia repair (17.8% of patients). Over one-third (38.6%) reported hearing aid use. The median G-min walk test distance for 151 treated patients (47.0%) had undergone surgery in adulthood; the most common sur-gery was hernia repair (17.8% of patients). Over one-third (38.6%) reported hearing aid use. The median G-min walk test distance for 151 treated patients was 48.06 of patients and 27.3% (60/220) reported oxygen depend-ency after 18 years of age. Approximately half (50.0%) of CRT-treated patients experienced at least one serious adverse event in adulthood, with the most common being respiratory disorders. Intravenous ERT was well tolerated, with a rate of serious influsion-related reactions in adulthood of 0.03 per 10 patient-years. Conclusions O-verall, adult patients with neroonspathic and non-neuronopathic MPS II had high disease burden and requirement for surgeries, emphasizing the need to continue multidisciplinary management and regular assess-ments in adulthood. Further research into the differences in care needs of adult patients with MPS II is warranted. *Thial registration* NCT03292887. Abstract

Trial registration NCT03292887. Keywords Adults, Cognitive Impairment, Hunter Syndrome, Mucopolysaccharidosis type II, Neuronopathic, Non-

neuronopathic

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