THE 6-MINUTE WALK TEST AND OTHER CLINICAL ENDPOINTS IN DUCHENNE MUSCULAR DYSTROPHY: RELIABILITY, CONCURRENT VALIDITY, AND MINIMAL CLINICALLY IMPORTANT DIFFERENCES FROM A MULTICENTER STUDY

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ABSTRACT: Introduction: An international clinical trial enrolled 174 ambulatory males ≥5 years old with nonsense mutation Duchenne muscular dystrophy (nmDMD). Pretreatment data provide insight into reliability, concurrent validity, and minimal clinically important differences (MCDs) of the 6-minute walk test (8MMT) and other endpoints. Methods: Soreening and baseline

Abbreviations: 66M/C, 6-minute wisk distance, 66M/T, 6-minute walk test; ATS, American Trocacic Society, CRARG, Cooperative International Neumanuscular Research Group; CK, creative Anisas; DMD, Ducrenne muscular dystrophy; EEI, energy expenditure index; HFGL, health-related quality of the MCD, minimal directly important differences. MPS, muscipolysecotheridosis; mrDMD, nonseries mutation DMD, NSAA, North Star Ambutatory Assessment; PadeQL, Pediatric Quality of Life Inventory; TFT, trend Sundon.

Key words: 6-minute walk test; ambulation; Duchenne muscular dystrophy; energy expenditure index, muscular dystrophy; myometry; natural history; Pedick.; tened function test.

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Additional Supporting Information may be found in the online version of

"Collaborating authors are letted in Appendix 1, Other members of the PTC124-GD-007-DMD Study Group are listed in Appendix 2 in the Supporting Information.

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evaluations included the 6-minute walk distance (8M/WD), timed function tests (TFTs), quantitative strength by myometry, the PedaGL, heart rate-determined energy expenditure index, and other exploratory endpoints. Results: The 6M/WT proved feasible and reliable in a multicenter context. Concurrent validity with other endpoints was excellent. The MCID for 6M/WD was 28.5 and 31.7 meters based on 2 statistical distribution methods. Conclusions: The ratio of MCID to baseline mean is lower for 6M/WD than for other endpoints. The 6M/WD is an optimal primary endpoint for Ducherne muscular dystrophy (DMD) clinical trials that are focused therapeutically on preservation of ambutation and slowing of disease progression.

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Duchenne muscular dystrophy (DMD) is a disabling and life-threatening X-linked genetic disorder caused by defects in the gene for dystrophin, a protein that stabilizes muscle cell membranes.1 DMD is characterized by complete loss of dystrophin and is the most common neuromuscular disease of childhood. It affects 1 in 3800-6300 males, and there are an estimated 15,000 patients with the disease in the USA. 2.3 There is no approved therapy that addresses the underlying cause of DMD.45 In ~13% of boys with nonsense mutation DMD (nmDMD, which represents ~1700 boys in the USA and ~2400 boys in Europe), the causative defect in the dystrophin gene is a nonsense mutation that truncates dystrophinprotein production by introducing a premature stopcodon into dystrophin mRNA.6-8

THE NEED FOR CLINICALLY MEANINGFUL ENDPOINTS IN DMD

Given that several novel approaches to treatment of DMD have shown promise in preclinical and/or proof-of-concept clinical studies, the research community has faced the need to identify and develop clinically meaningful outcome measures for use in pivotal therapeutic trials. In boys with DMD, walking abnormalities are a major disease manifestation that has great importance to patients and

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