

Introduction

Development of a new 'real-world endpoint':
Stride Velocity 95th centile (SV95C)

- Digital clinical outcome assessment (COA) measured at the ankle with a suitable wearable device during daily life
- Qualified by EMA as secondary endpoint in DMD to assess new drug efficacy
- Reflects the maximal ambulatory performance during normal day living

Clinical relevance of passively measuring the maximal ambulation speed of a patient in an uncontrolled environment to assess the efficacy of new drugs ?

Methods

International cross-sectional survey

Neuromuscular diseases	Patients Families / Caregivers
------------------------	--------------------------------

English, French, Dutch, German, Italian, From October 2020 to January 2021

- 4 domains:
 - Mobility meaning
 - Participation to clinical trial
 - ActiMyo® as a wearable device in CT
- Outcome measure meaningfulness

Results

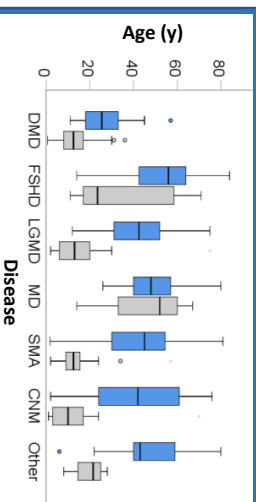
Population

6415 email addresses

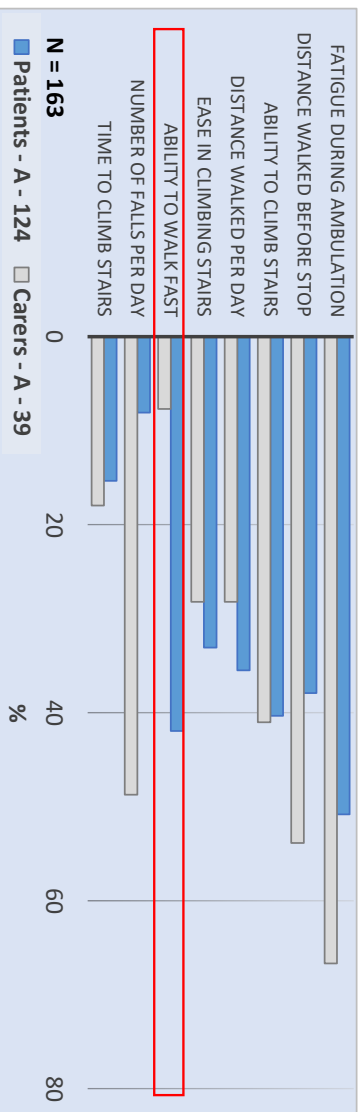
549 respondents

	Patients = 403	Careers = 146
A	221	NA
NA	174	69
A	69	77
NA	77	32
DMD	3	11
FSHD*	73	46
LGMD*	53	48
MD***	70	23
SMA*	4	26
CNM**	9	15
Other	9	5

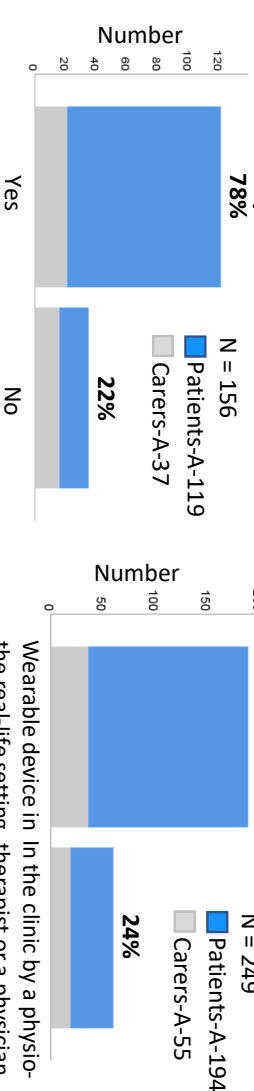
* Number of patients with unknown ambulatory status



Among the followings, which best represents an ambulation improvement (max 3 items)?



Do you think that measuring a change in the top speed while walking is representative of an ambulation improvement?



Take Home messages

- Perspectives are different between patients and their families or caregivers (careers).
- For ambulant patients, ability to walk fast is the 2nd most representative aspect of an ambulation improvement.
- 79% of ambulant patients would prefer that their mobility be assessed in real-life setting using a wearable device.
- 84% of ambulant patients agree that measuring a change in the top speed while walking is representative of an ambulation improvement.

For more information, please contact:

melanie.annoussamy@sysnav.fr

Copyright © 2021

A: Ambulant, CNM: Centronuclear myopathy, COA: Clinical outcome Assessment, CT: Clinical trial, DMD: Duchenne muscular dystrophy, EMA: European medicine agency, FSHD: Facio-scapulo-humeral muscular dystrophy, LGMD: Limb girdle muscular dystrophy, MD: Myotonic Dystrophy, SMA: Spinal muscular atrophy, NA: Non-Ambulant.

