

Wellcome Open Research

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Measuring the effects of exercise in neuromuscular disorders: a systematic review and meta-analyses

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Free PMC article

Objective:

To develop an innovative, interactive, outcome measures database as an open access online resource.

Open practices used:

Wellcome Open Research publication (including pre-registration)

Interactive database of systematic review data

Interactive meta-analysis data

Computational Research Platform – published executable code (Codeocean)

Databases

Codeocean

www.newcastle-mitochondria.com/train-nmd/

<https://codeocean.com/capsule/1683542/tree/v2>

Barriers encountered:

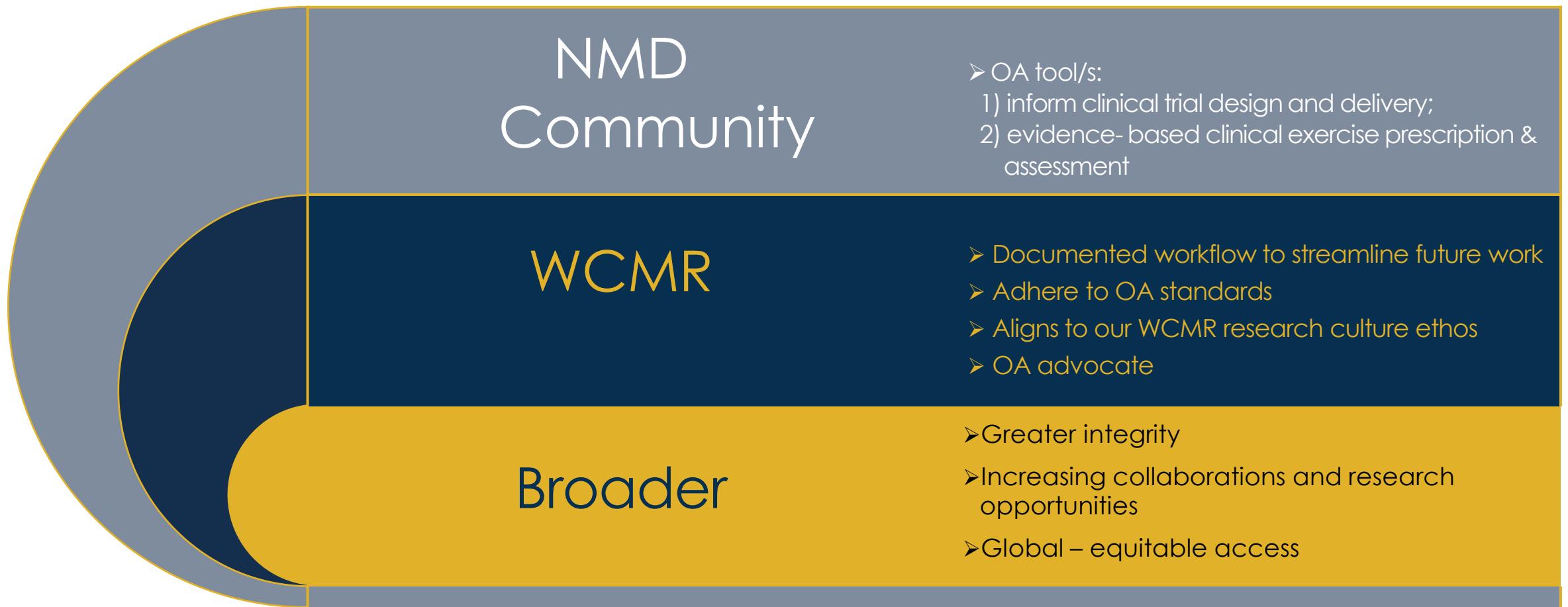
- Resources/time commitments
- Need specialist training
- Lack of standardisation / raw data available
- Perception of ↑ benefits from publishing in 'well-regarded' peer-reviewed journals

A graphic element consisting of three overlapping triangles. The top triangle is dark blue, the bottom-left is light grey, and the bottom-right is yellow. The letters 'VS' are written in a bold, dark blue, sans-serif font, centered on the yellow triangle.

VS

- PI support appreciate time required
- Collaborative project across disciplines
- Approached corresponding authors to obtain missing data
- Additional research assessment criteria indicators

Benefits:



Impact:

“Overall this is a huge advancement to the field and will no doubt influence care”

OA peer review

Team Science:



Dr Renae Stefanetti

Exercise Physiologist



Dr Alasdair Blain

Statistician



Linda Errington

Medical Librarian



Dr Jane Newman

Physiotherapist



Dr Cecilia Jimenez Moreno

Physiotherapist



Laura Brown

Senior Trials Manager



Prof Doug Turnbull

Adult Neurologist



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