



University of Groningen

Adaptability of gait and balance across the adult lifespan

Vervoort, Danique

DOI: 10.33612/diss.144620201

IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.

Document Version Publisher's PDF, also known as Version of record

Publication date: 2020

Link to publication in University of Groningen/UMCG research database

Citation for published version (APA): Vervoort, D. (2020). Adaptability of gait and balance across the adult lifespan. University of Groningen. https://doi.org/10.33612/diss.144620201

Copyright

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

Take-down policy If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from the University of Groningen/UMCG research database (Pure): http://www.rug.nl/research/portal. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.

Propositions

Belonging to the thesis

Adaptability of gait and balance across the adult lifespan

By Danique Vervoort

- 1. Algorithms applied to the data captured during the iTUG have the potential to accurately distinguish age groups and patient populations in clinical practice *This thesis*
- 2. In challenging walking situations, like split-belt walking, older adults need to prioritize gait adaptation in order to maintain walking and prevent adverse outcomes *This thesis*
- 3. Changes in muscle activation underlie the changes in gait symmetry during split-belt adaptation *This thesis*
- 4. With increasing age, healthy adults adopt an increased cadence as a balance control strategy when challenged by split-belt walking *This thesis*
- 5. Dynamic balance should be challenged to assess aging effects on gait adaptation *This thesis*
- 6. Walking speed has to be controlled when investigating age effects on gait This thesis
- 7. Symmetry outcomes show the ability to re-establish symmetry during split-belt walking, but do not show how aging affects gait adaptability *This thesis*
- Nothing in the world is worth having or worth doing unless it means effort, pain, difficulty Theodore Roosevelt