

Functional development in children and youth with cerebral palsy in Uganda

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Citation

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Alternative title

Functional development of Ugandan children/youth with CP

Creator/Principal investigator(s)

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Description

AIM

To follow the functional development of a population-based cohort of children and youth (C&Y) with cerebral palsy (CP) in rural Uganda and compare their development with developmental trajectories from high-income countries (HIC).

METHODS

Eighty-one C&Y aged 2–17 years with CP were assessed 2015 and 2019 using Gross Motor Function Measure-66 items (GMFM-66), Pediatric Evaluation of Disability Inventory, Ugandan version (PEDI-UG), and functional classification systems. We calculated scaled scores (actual scores) and reference scores (amount of deviation from HIC developmental trajectories). Wilcoxon signed rank test was used for statistical analyses.

RESULTS

C&Y with CP in Uganda exhibited no differences in scaled scores between the first and second assessments for GMFM-66 and PEDI-UG mobility skills, while they exhibited increased PEDI-UG self-care skills ($p < 0.001$). Reference scores were more negative at the second assessment than at the first assessment for GMFM-66 ($p = 0.002$) and PEDI-UG mobility ($p = 0.036$) but not for PEDI-UG self-care. The increased difference in reference scores over the 4 years were primarily driven by younger children (2–5 years) and C&Y with milder impairments.

INTERPRETATION

The increased difference in reference scores between assessments suggests that C&Y with CP in Uganda develop motor skills at a lower rate than peers in HIC.

The dataset contains of the following files:

- Functional_development_in_Uganda_dataset_Andrews_et_al.csv
- Variable_list_for_functional_development_in_Uganda_dataset_Andrews_et_al.pdf

Information about the tool Gross Motor Function Measure-66 (GMFM-66):

<https://www.canchild.ca/en/resources/44-gross-motor-function-measure-gmfm>

Data contains personal data

Yes

Sensitive personal data

Yes

Code key exists

Yes

Language

[English](#)

Unit of analysis

[Individual/Patient](#)

[Family](#)

[Household](#)

[Geographic unit](#)

Population

A population-based cohort of children with Cerebral Palsy in a geographically defined area in Eastern Uganda

Study design

Observational study

Sampling procedure

[Total universe/Complete enumeration](#)

Time period(s) investigated

2015-04 - 2019-12

Variables

35

Number of individuals/objects

81

Data format / data structure

[Numeric](#)

[Text](#)

Data collection 1

- Mode of collection: Measurements and tests

- Time period(s) for data collection: 2015-04 – 2019-12
- Source of the data: Research data, Population group

Geographic spread

Geographic location: [Uganda](#), [Sub-Saharan Africa](#)

Geographic description: Iganga/Mayuge Health and Demographic Surveillance Site, Uganda

Responsible department/unit

Womens and Children's Health

Contributor(s)

Makerere University, Pediatrics and Child Health

Funding

- Funding agency: Swedish Research council

Ethics Review

Other - Ref. HS1787 & HS2608

Research area

[Medical and health sciences](#) (Standard för svensk indelning av forskningsämnen 2011)

[Neurology](#) (Standard för svensk indelning av forskningsämnen 2011)

[Pediatrics](#) (Standard för svensk indelning av forskningsämnen 2011)

[Public health, global health, social medicine and epidemiology](#) (Standard för svensk indelning av forskningsämnen 2011)

[Physiotherapy](#) (Standard för svensk indelning av forskningsämnen 2011)

Keywords

[Uganda](#), [Africa](#), [Functional development](#), [Cerebral palsy](#)

Publications

Kakooza-Mwesige A, Andrews C, Peterson S, Wabwire Mangen F, Eliasson AC, Forssberg H. Prevalence of cerebral palsy in Uganda: a population-based study. Lancet Glob Health. 2017 Dec;5(12):e1275-e1282. doi: 10.1016/S2214-109X(17)30374-1.

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Andrews, C., Namaganda, L., Eliasson, A.-C., Kakooza-Mwesige, A. and Forssberg, H. (2021), Functional development in children with cerebral palsy in Uganda: population-based longitudinal cohort study. Dev Med Child Neurol. <https://doi.org/10.1111/dmcn.14996>.

DOI: <https://doi.org/10.1111/dmcn.14996>

If you have published anything based on these data, [please notify us](#) with a reference to your publication(s). If you are responsible for the catalogue entry, you can update the metadata/data description in DORIS.

Accessibility level

Access to data through SND

Access to data is restricted

Use of data

[Things to consider when using data shared through SND](#)

Versions

Version 1. 2021-08-19

Contact for questions about the data

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Related research data in SND's catalogue

[Excessive premature mortality among children with cerebral palsy in rural Uganda: a longitudinal, population-based study](#)

Download metadata

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[DDI 2.5](#)

[DDI 3.3](#)

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