# Early Care and Support for Young Children with Developmental Disability in East Africa:



African Regional Convening to Support Parents & Caregivers 21<sup>st</sup> – 23rd June 2022



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## BACKGROUND



• Facilitated group participatory programme for young children with developmental disability and their caregivers – co-facilitated by expert parents

#### Themes running throughout the programme

- Promoting inclusion and participation of children with disability within the family and community
- Maximising a child's developmental potential, optimising health and quality of life
- Promoting empowerment of caregivers through information sharing and peer support
- Sharing maternal experiences, and particularly addressing stigma
- Promoting the human rights of children with disability



https://www.ubuntu-hub.org/resources/babyubuntu/



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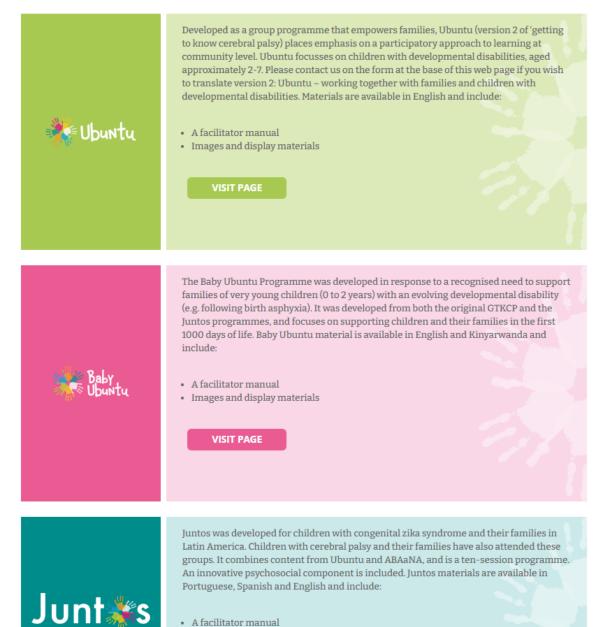
Fonds







- 'Ubuntu' is a Zulu term "humanity towards others" - a nonprofit research and educational hub
- Aims is to improve the lives of children with developmental disabilities, and their families
- Shared also through a community of practice spanning >300 members and 70 countries
- https://www.ubuntu-hub.org/



- A facilitator manual
- Images and display materials
- Videos

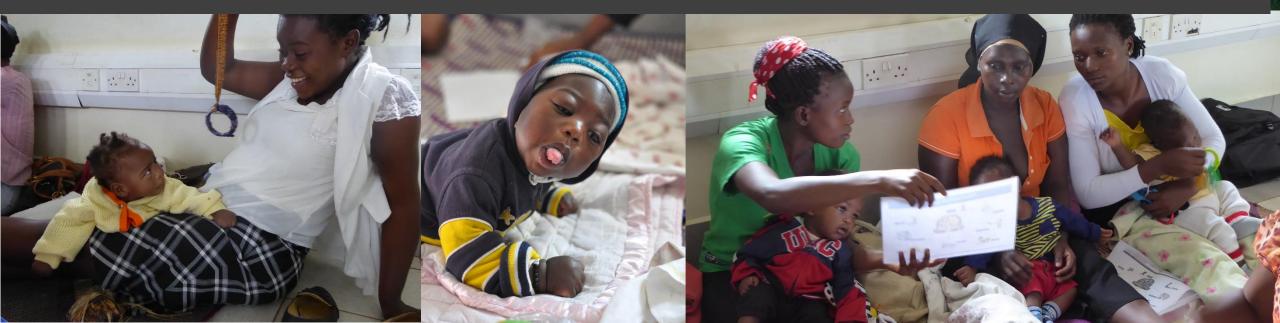
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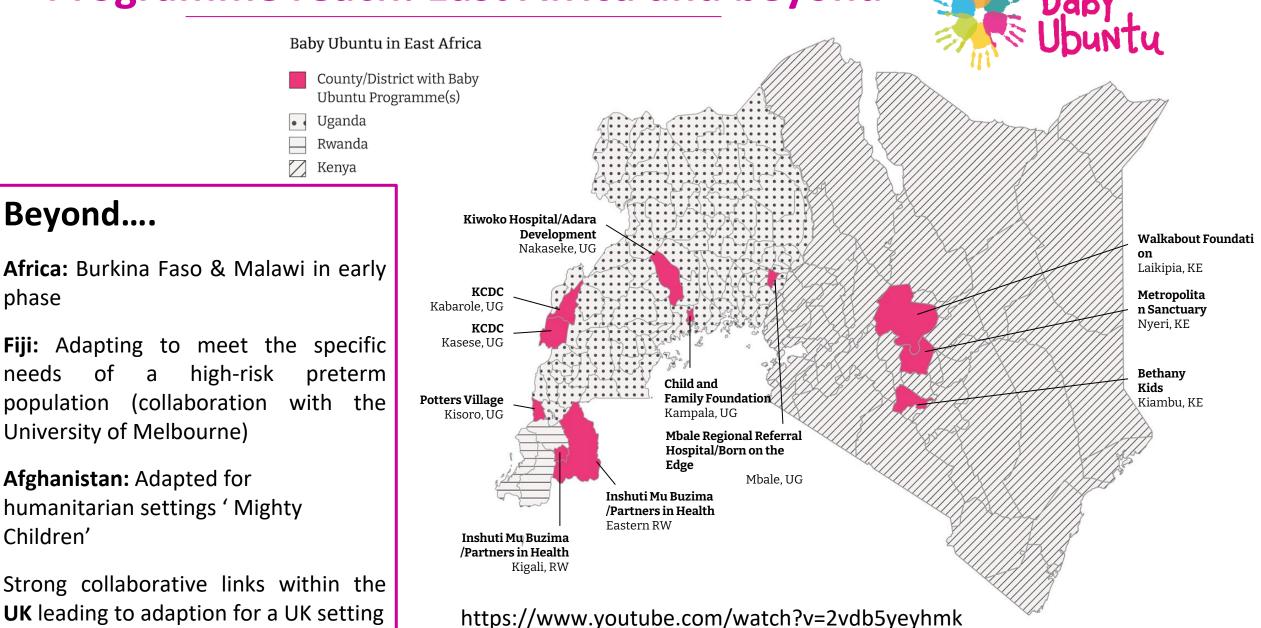
# CONTENT



- Manual (free online download)
- Access to the Ubuntu shared learning platform and resources
- 3-day implementation facilitation workshop
- 5 day training course and ongoing supervision and mentorship delivered by 'Master Trainer'
- Tablet application under development to support fidelity



# **Programme reach: East Africa and beyond**



Fiji: Adapting to meet the specific of high-risk needs а population (collaboration with the

**Afghanistan:** Adapted for humanitarian settings ' Mighty Children'

Beyond....

phase

Strong collaborative links within the **UK** leading to adaption for a UK setting

## Transitioning to scale...



## Public engagement

Tweets & replies Media Likes

Pinned Tweet

Cally Tann @CallyTann • 10m Wonderful celebrating #WorldCPDay today holding art workshops for children and their families from #ABAaNAstudy #earlyintervention to address #stigma and promote #inclusion. Much love & laughter shared! Watch this space for deets of #LetHopeGrow exhibition early next year!



MRC Uganda and 9 others

### Mixed-methods evaluation of programme roll out in

#### Rwanda & Uganda









#### **Transitioning to scale for low-resource settings**

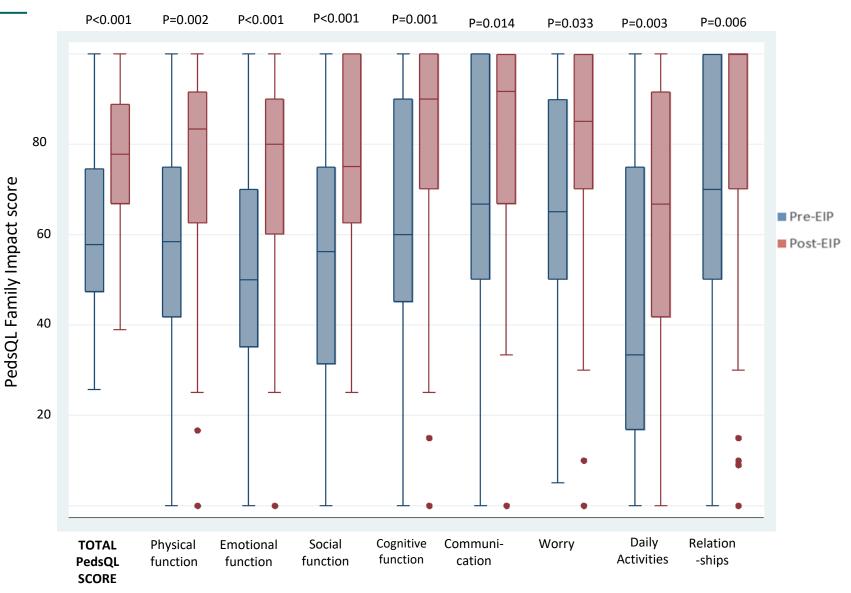
- Package of training, mentorship, monitoring & evaluation
- Tablet application for enhanced accessibility, fidelity, monitoring
- Sustainable scale-up strategy
- Add livelihoods component



Cluster-randomised trial inclusive of process & economic evaluation

## Early piloting and pre- / post-evaluation

- Developed in Kampala 2015-16
- Participants 6-12 months with moderate-severe impairment
- Kampala: 25% improvement in total Peds QL family impact (median difference +15.6, p=0.001) (n=28)<sup>1</sup>
- Western Uganda: Significant improvement in total quality of life score (21%) and most subdomains (n=48)<sup>2</sup>
- Improved caregiver knowledge and skills, and reducing stigma



## PILOT FEASIBILITY TRIAL



**Aim:** Conduct a feasibility trial to evaluate feasibility, acceptability, early evidence of impact and provider costs (mixed methods)

**Participants**: Infants with moderatesevere neurodevelopmental impairment & their caregivers

- Median 9.5 months (IQR 7.5 10.2)
- ➤ 51% boys
- Median DQ 28.7 (IQR 14.2 42.6)
- ➢ HINE median 32.5 (IQR 22 − 46)

#### OUTCOMES

- Feasible: 126 infants recruited and randomised
- Acceptable: 68% satisfactory attendance
- Piloting of outcomes measures to assess early evidence of impact: *Inconclusive with wide CI's reported, high impact on qualitative evaluation* 
  - ≻Quality of life,
  - ≻ Child functioning, nutrition, mental health and well-being
- Provider costs: *Total \$142.03 USD per participant* 
  - ≻Set-up: \$27.31
  - ≻Running: \$114.72
- All mixed-methods including qualitative component

Ref: Nampijja et al. BMJ Open. 2019 Oct 9:9(10):e032705.



**Knowledge, skills and confidence:** "[My child] doesn't look the way he looked before. He has improved in his health. He was so small since I didn't know how to feed him but ever since I was taught.., I practiced.. and now my child is healthy"

**Stigma & exclusion: "***Health workers are now supporting her in case she takes her child for treatment. No longer judge them for their children's weight/appearance"* 

**Daily activities:** "I had given up with work since no one could accept to stay with my child but because I learnt to feed him and how to make him calm, I have returned to work leaving [him] with one of my relatives."

## Factors important for scale



- **Demand:** Stakeholders reported a very high demand in the community as very few organisations and services targeting children with disability
- **Integration**: Integration of programme into community health systems substantially supports accessibility and therefore acceptability
- **Community engagement**: Enhanced community engagement crucial to reduce superstition and self-stigma, and promote inclusion
- **Paternal engagement**: Engagement of fathers and wider family members critical for mothers accessing care and support
- **Poverty**: Financial impacts of child disability and poverty are key barrier to access and improved quality of life
- **Manage expectations**: Managing caregiver expectations in terms of progress in development, functioning and growth
- Capacity: Important to consider capacity of healthcare systems and staff



# Integrated, tiered approach to early care and support



- Integration with existing community health services in a tiered approach is crucial for scale-up and sustainability
- In Uganda VHTs trained to identify at risk infants and refer for developmental assessment in line with current national strategy
- Referral to specialist services (tier 2) integrated through community service mapping
- Vertical and horizontal scale-up models being evaluated in partnership with MoH and iNGO/NGO partners



# Future vision at scale...



- Integrated: An integrated approach to early child development and disability, harmonized with government community health systems
- **Transformative:** Community transformation increasing social inclusion and participation for children with disabilities and their caregivers, that promotes access to health, developmental care and education for all
- Sustainable: Robust learning and delivery platform for high fidelity implementation of Baby Ubuntu with a network of Master Trainers
- Accessible & adaptable: Accessible programme that is able to adapt to diverse settings and contexts promoting global reach





## Conclusion



- Baby Ubuntu is a community-based, participatory group rehabilitation programme, co-facilitated by expert parents, that aims to provide a cost effective solution to providing early care and support for caregivers.
- Our feasibility trial found the Baby Ubuntu programme to be **feasible and acceptable to families** in both urban and rural settings in Uganda.
- Mixed methods evaluations have provided strong qualitative evidence of impact on family knowledge, skills, attitudes and quality of life, however this was less clear on quantitative evaluation
- Clear need to embed identification, care and support within existing tiered community health systems. Facilitating factors included community level engagement and sensitisation around child disability
- Important barriers included stigma, poverty, limited capacity of existing health care systems and highlighted the need to manage expectations around the child's progress.
- The cost estimate represents a feasible intervention for this vulnerable group, encouraging financial sustainability at scale, however full economic evaluation warranted.

## Thanks / Mwebale



#### Stakeholders & Partners

- Partners in Health/Inshuti mu Buzima
- Adara Development Uganda •
- Mulago University Hospital •
- **Kiwoko Hospital** .
- Hope Uganda .
- Saving Brains Learning Platform .
- Kyaninga Child Development Centre
- Uganda Society for Disabled • Children

**Imperial College** London

MULAGO HOSPITAL

#### **Investigators & Collaborators**

- Karen Martin
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A special thank you to our Baby Ubuntu families and expert parent facilitators

# PARTNERSHIPS FOR GLOBAL HEALTH



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**RESEARCH FOUNDATION** 

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MRC/UVRI and LSHTM Uganda Research Unit









THANK YOU MWEBALE NYO