

**CMAM** 2021

22-25 March

VIRTUAL CONFERENCE

# Perspectives on Risk

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worldwide

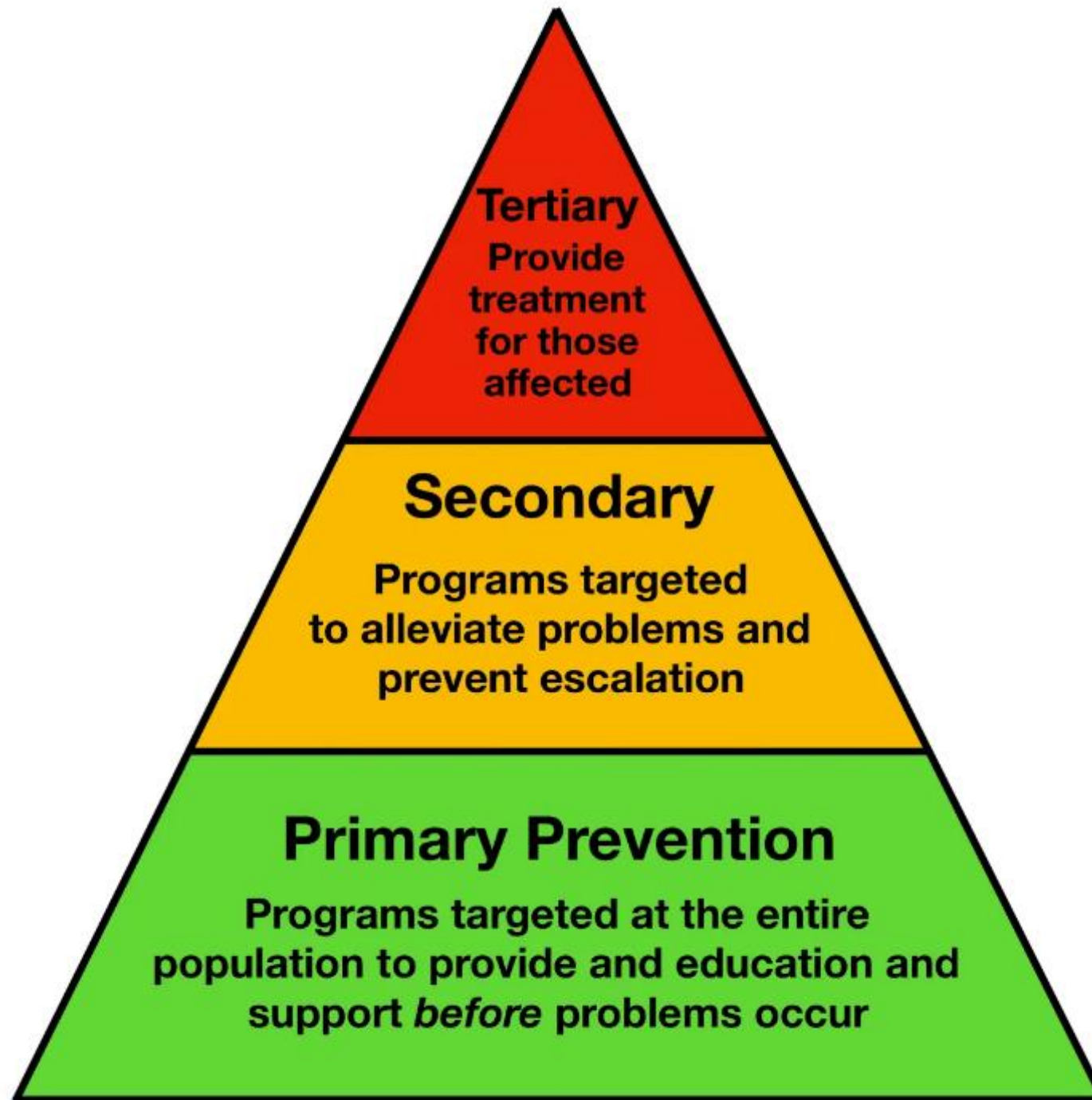
 **Irish Aid**  
An Roinn Gnóthaí Eachtracha agus Trádála  
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### Wasting and Stunting Technical Interest Group (WaSt TIG)

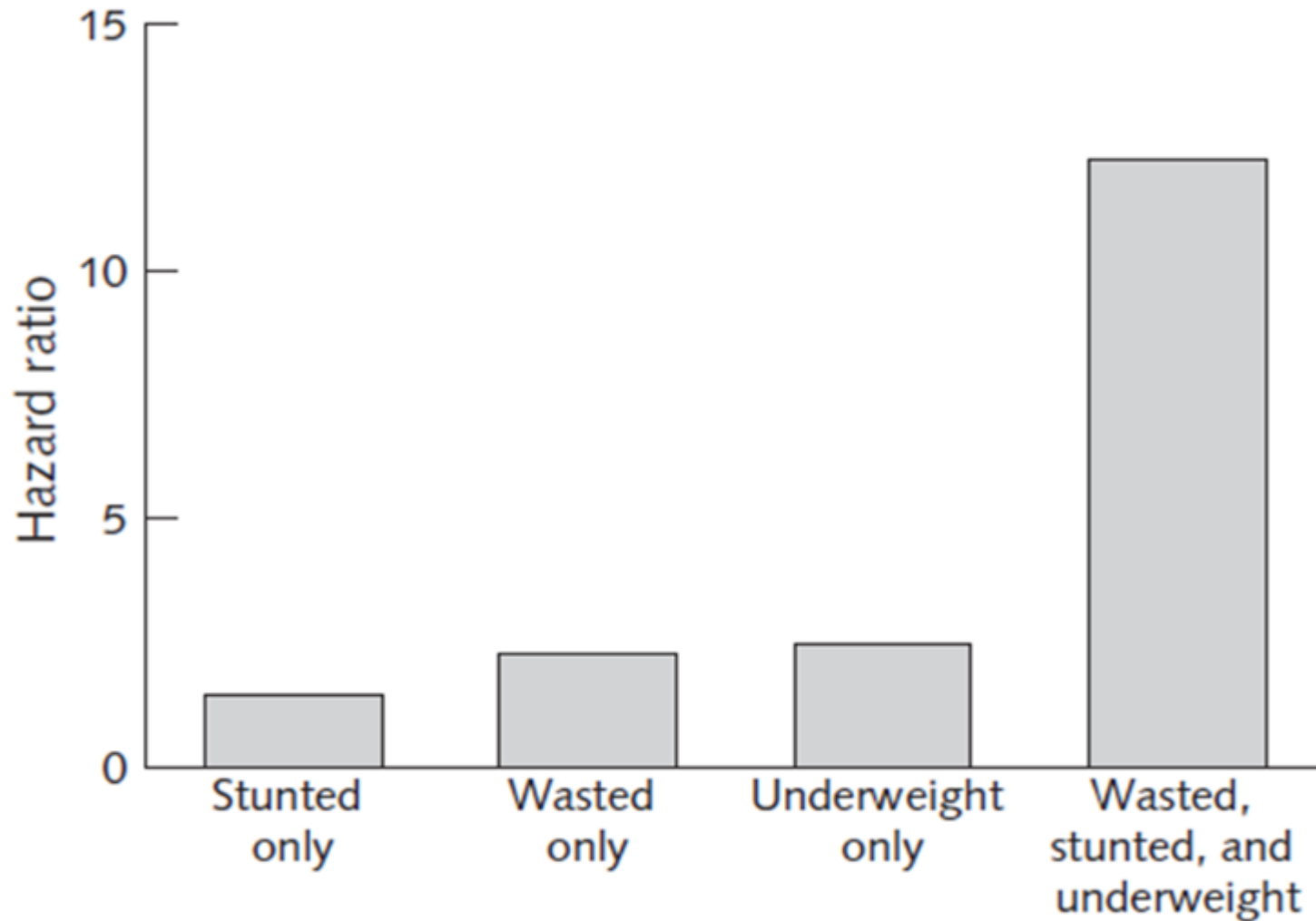
**Abigail Perry** (FCDO), **André Briend** (Independent), **Andrew Hall** (Independent), **Andrew Mertens** (Berkeley), **Andrew Prendergast** (St Bartholomew's and Queen Mary), **Anne Walsh** (Power of Nutrition), **Bernadette Cichon** (No Wasted Lives), **Carlos Grijalva-Eternod** (IGH/UCL\*), **Carmel Dolan** (N4D), **Caroline Wilkinson** (ICRC), **Casie Tesfaye** (IRC), **Dominique Robenfroid** (Institute of Tropical Medicine, Antwerp), **Erin Boyd** (BHA), **Heather Stobaugh** (ACF), **Hedwig Deconinck** (Independent), **Jay Berkely** (KEMRI/Wellcome Trust research programme, Kenya), **Jeanette Bailey** (IRC), **Jonathan Wells** (GOS-ICH-UCL^), **Kay Dewey** (University of California Davis), **Kevin Phelan** (ALIMA), **Kieran O'Brien** (University of San Francisco), **Leisel Tally** (CDC), **Mark Manary** (University of St Louis), **Mark Myatt** (Brixton Health), **Marko Kerac** (LSHTM), **Martha Mwangome** (KEMRI/Wellcome Trust research programme, Kenya), **Michel Garenne** (Independent), **Natasha Lelijveld** (ENN), **Paluku Bahwere** (Independent), **Patrick Webb** (Friedman School of Nutrition Science and Policy, TUFTS), **Robert Black** (Johns Hopkins Bloomberg School of Public Health), **Saul Guerrero** (UNICEF), **Sheila Isanaka** (T.H Chan School of Public Health, Harvard), **Silke Pietzsch** (Independent), **Simon Schoenbuchner** (University of Cambridge), **Sophie Moore** (Kings College London, MRC Cambridge), **Stephanie Richards** (Bloomberg School of Public Health, Johns Hopkins University), **Susan Thurstons** (LSHTM), **William Checkley** (Bloomberg School of Public Health, Johns Hopkins University), **Zita Weise Prinzo** (WHO), **Zulfiqar Bhutta** (Aga Khan University, Sick Kids).

**Coordinators:** Tanya Khara & Natalie Sessions

\*Institute for Global Health, University College London

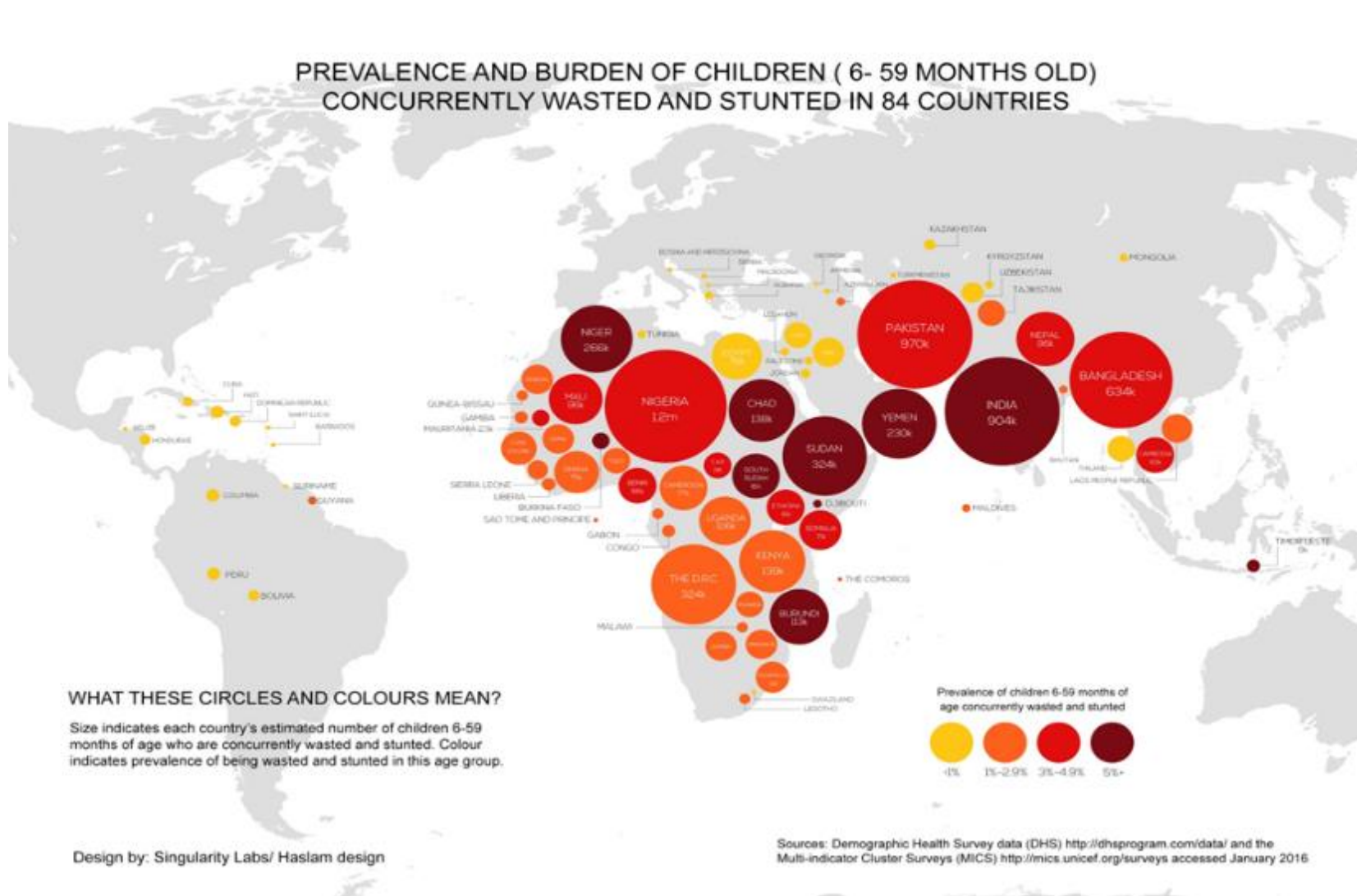


# Being wasted and stunted is particularly risky



(McDonald,  
Olofin et al.  
2013)

# Many children affected

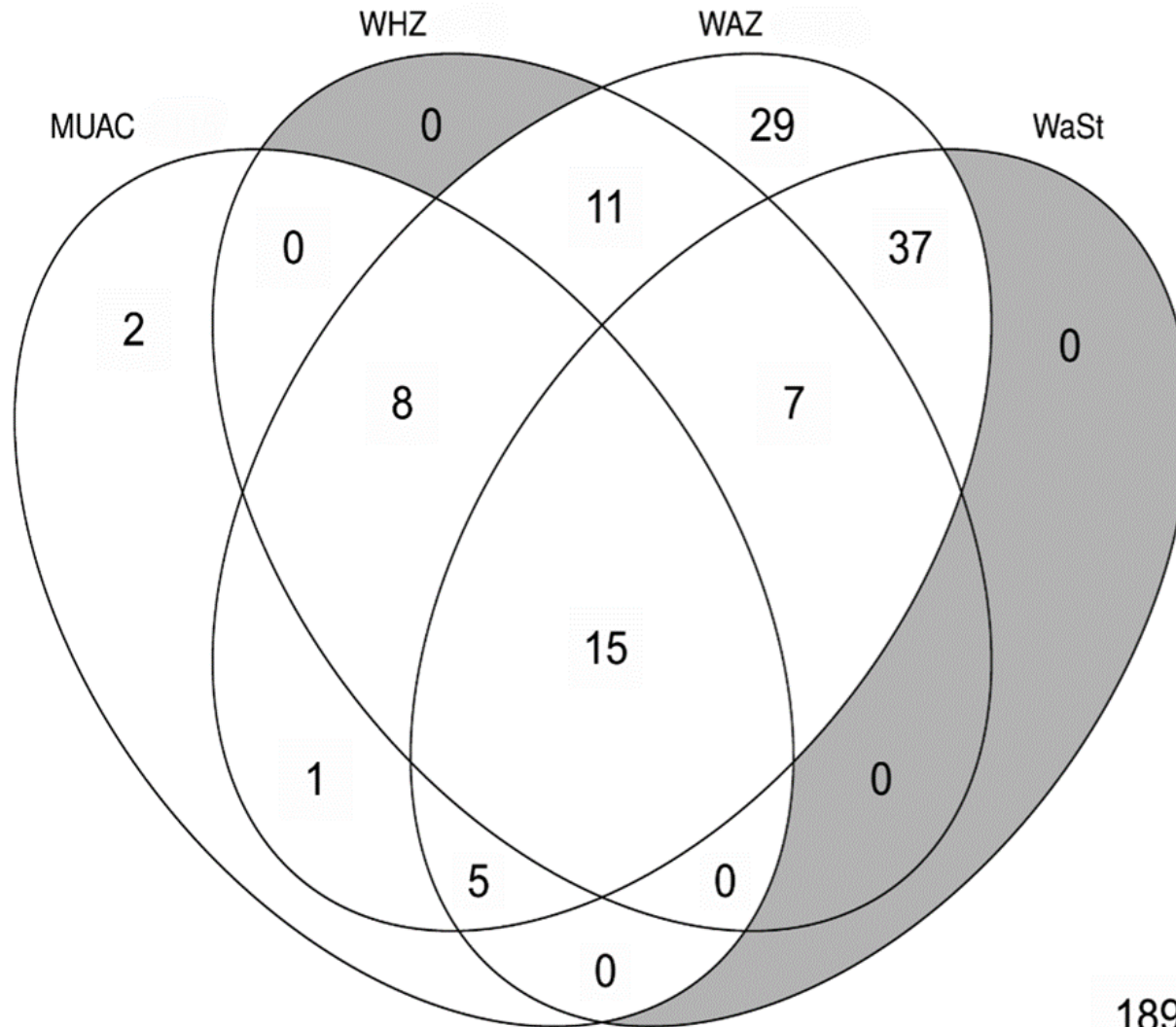


- 9 countries >5% children under 5yrs
- GNR global analysis - 16 million children

(Khara, Mwangome, Ngari et al. 2017)



# Cohort data to explore best measures to id risk of dying



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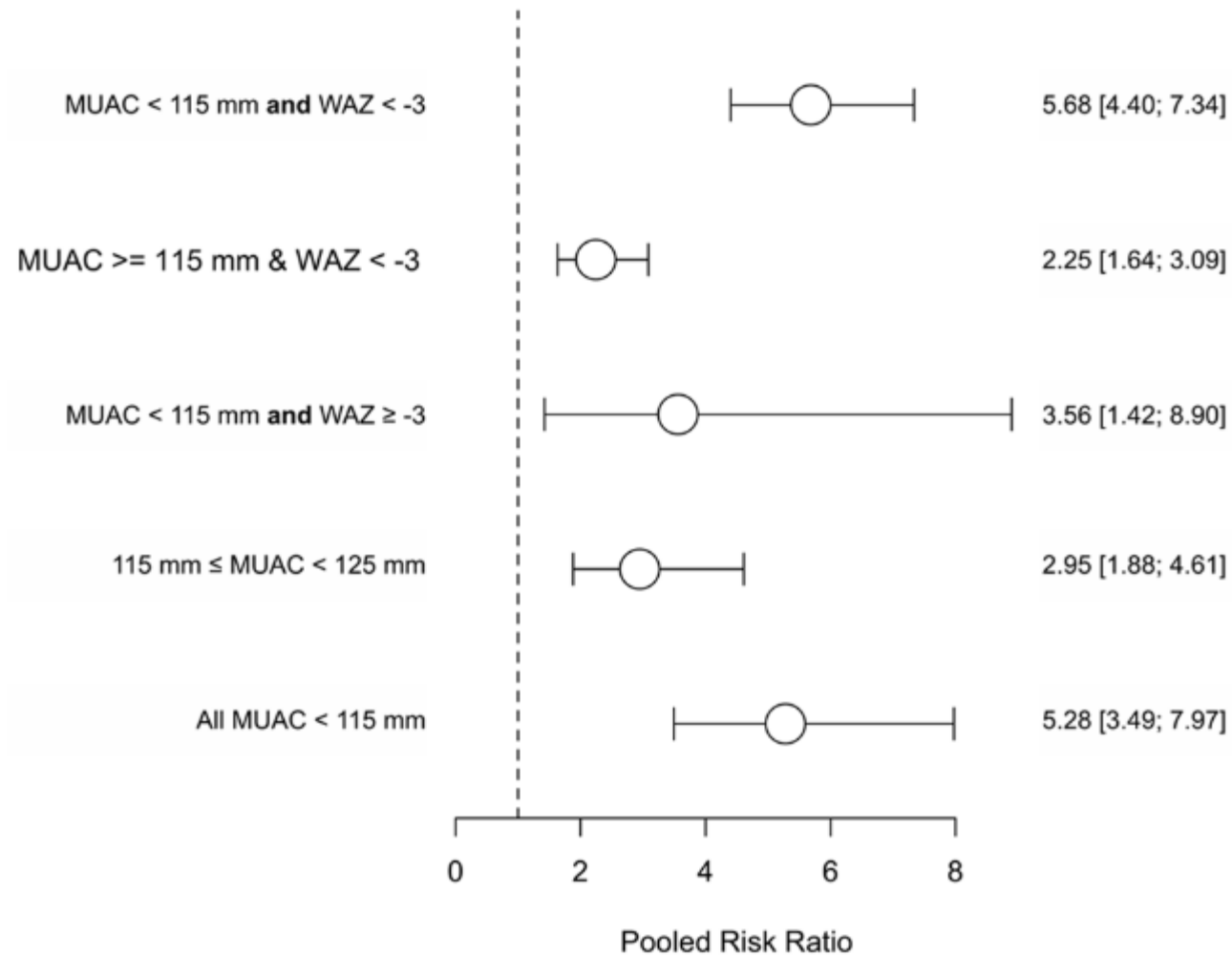
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## Niakhar (Senegal) 1980

- 5,751 children
- Every 6m for 2yrs
- severely low WAZ and MUAC<115mm identify all deaths associated with WHZ and WaSt

(Myatt, Khara et al. 2018)

# Risk and intensity of treatment



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# What are the implications?

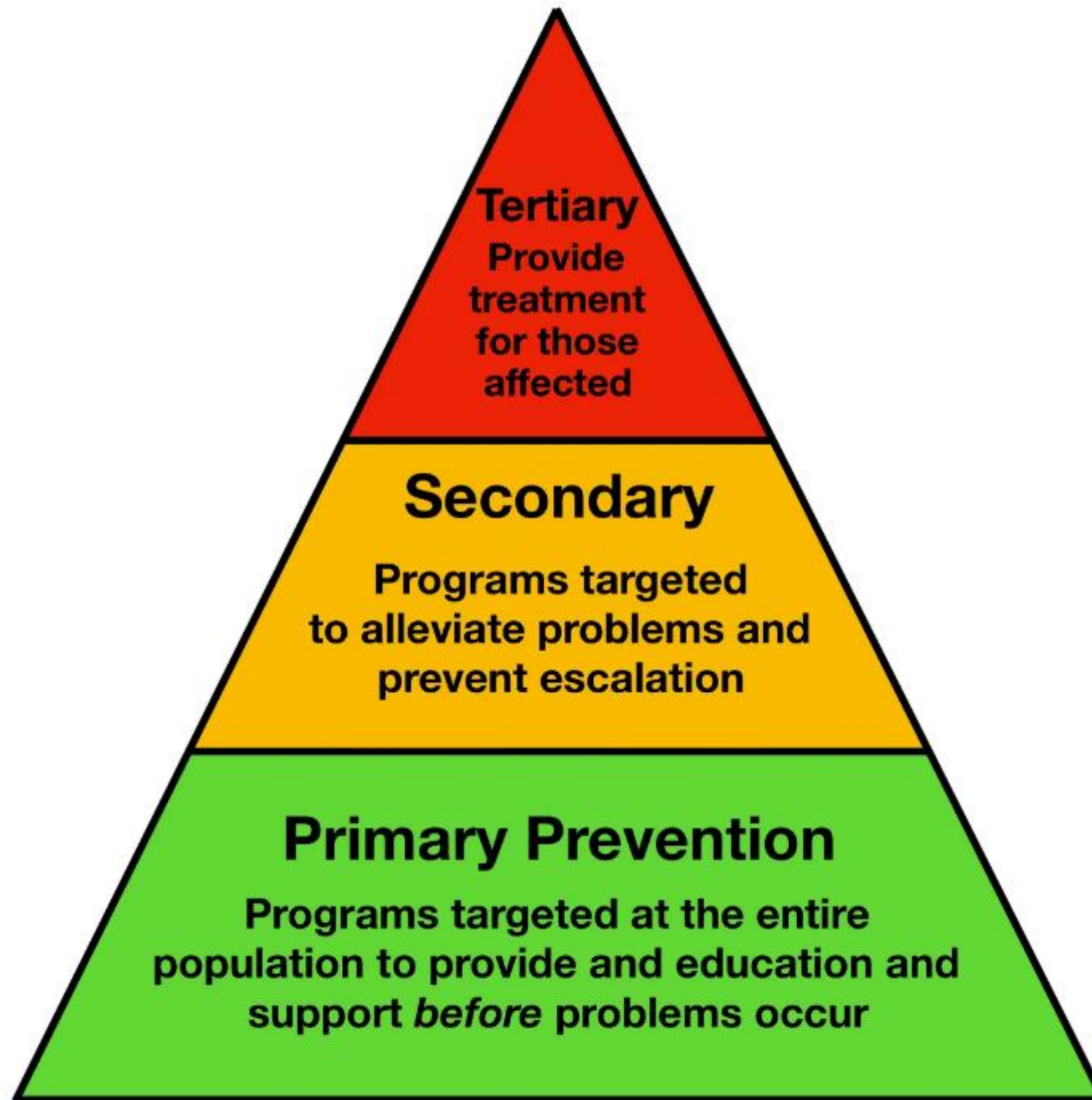
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- To support coverage for the most at-risk children we need to frame our research and programming by levels of risk (not just by SAM MAM) and explore intensity of treatment/approach for different levels of risk.
- This can assist with issues of cost and overburden of health services and capitalise on alternative community-based platforms where less intensive treatment required.
- Opportunity offered by WFA in countries where growth monitoring and promotion is being practiced



# Refocussing our attention on prevention - highlights

1. Wasting and stunting share many common drivers;
2. A child experiencing a period of wasting is more likely to experience subsequent stunting (x3);
3. Treatment doesn't reverse all impacts;
  - A period of wasting even if treated leads to greater likelihood (x3.2) of more periods of wasting (Schoenbuchner et al 2018).
  - Greater relapse with severity of wasting (Stobaugh et al 2017 & 2018)
4. Initial months matter;
  - highest incidence in first 3 months of life (South Asia and SSAfrica)
  - Wasting during first 6 months leads to increased likelihood of wasting & stunting during childhood (Mertens et al 2020).



# Thank you

To see all the work of the WaSt TIG – including up coming brief on preventing wasting in the context of programming for undernutrition.

<https://www.enonline.net/ourwork/reviews/wastingstunting>

Represent a country/district with interesting experiences to share of trying to tackle wasting prevention? Please get in touch

Have data and/or would like to get more involved in the work of the WaSt TIG? Please get in touch.

Interested in collaborating to trial the use of weight-for-age alongside MUAC within CMAM? Please get in touch.

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