

CanWaCH

Canadian Partnership for
Women and Children's Health



CanSFE

Partenariat canadien pour
la santé des femmes et des enfants

A Partnership Model: Measuring Linkages between Nutrition and Gender Equality

Un modèle de partenariat : mesure des liens entre la nutrition
et l'égalité des genres



UNIVERSITY OF
TORONTO



Nourish Life

le 10 juin | June 10, 2020

Canada

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Zoom Features | Caractéristiques Zoom

- **Chat Box- Technical difficulties:** under the 'more' section there is a chat function, please use this if you have any technical difficulties and we will be happy to assist you. Tina LaRoche (Technical Support) is available to help.
- **Q&A box -Ask questions to Panelists:** you can also submit anonymous questions during the presentation using the Q&A button in the bottom middle bar on Zoom.
- **Clavardage - Problèmes techniques:** dans la barre du bas, il y a une fonction de clavardage (chat). Veuillez l'utiliser si vous éprouvez des difficultés techniques et nous nous ferons un plaisir de vous aider. Tina LaRoche (assistance technique) est là pour vous aider.
- **Période de questions - Posez vos questions :** vous pouvez envoyer une question de façon anonyme pendant la présentation en utilisant l'icône Q&A dans la barre du bas sur Zoom.



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Measuring Linkages Between Nutrition and Gender Equality

Collaborative work by:



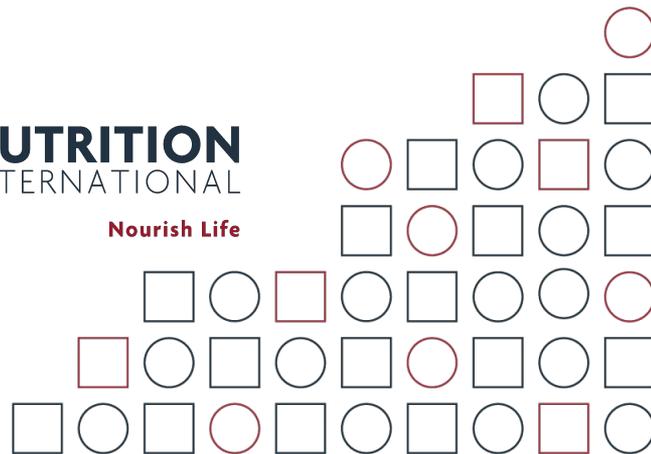
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Overview

Introduction – collaboration & process

Updated NIMS toolkit & quality metrics

Gender and nutrition - indicators and interventions

Conclusions and next steps



Introduction

Identified needs:

- Harmonized survey tools

Round 1:

- Nutrition Intervention Monitoring System (NIMS) toolkit tested in 7 countries

Time and expertise needed:

- Update & expand NIMS toolkit for harmonized survey data & standardized quality
- Include gender & empowerment indicators that are relevant for nutrition programs

Collaboration for:

- Systematic reviews, statistical modeling, quality control and assurance metrics



Collaboration – Intersections



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Iterative process of collaboration



- Leads nutrition-gender indicator research and systematic reviews of empowerment-based nutrition interventions



- Leads research for NIMS tool updates and quality metrics



- Provides program-specific technical perspective and oversight



NIMS TOOLKIT



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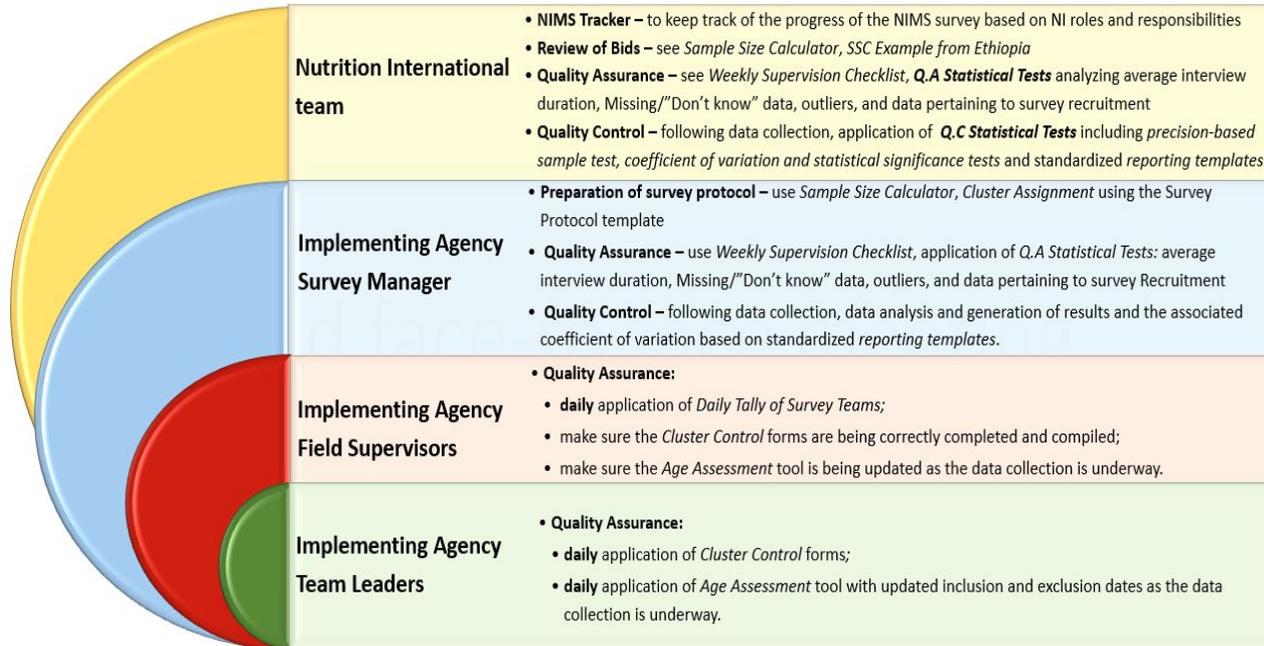
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New NIMS tools to ensure quality and accountability



- Inspired by existing survey tools and manuals:
 - Backbone: Standardized Monitoring & Assessment of Relief & Transitions
 - Standardized Expanded Nutrition Survey
 - [CE-DAT Checklist](#)



Attention to data quality, adapted to various target audiences



Quality Metrics

Enumerator	# don't know	# missing	# "other"
Enumerator 1	0	4	0
Enumerator 2	1	0	6
Enumerator 3	2	0	2
Enumerator 4	0	0	2
Enumerator 5	5	0	2

Indicator	%	Sample Size	Design Effect	Co-Efficient of variation (grade)
Diarrhea previous 2 weeks	31.7	458	1.5	0.15 (●)
Episodes of diarrhea seen at facility	46.9	145	2.1	0.26 (●)
Diarrhea seen at facility who received zinc	67.6	68	0.6	0.45 (●)



Taking NIMS One Step Further

Based on identified needs for monitoring data:

- Adapting it based on Desk Review findings
- Key considerations when looking at sampling design and sample size based on statistical/simulation exercises
- Building a dashboard to enhance data visualization and its utilization



GENDER & EMPOWERMENT



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Good nutrition and gender equality are mutually reinforcing



A mother's level of education is positively associated with child health outcomes. Higher levels of education may also convey greater confidence, influence and bargaining power in the HH and community.



Good nutrition is important for learning and development.



Cash controlled by women is more likely to be spent on food and health care in the HH.



Long, often physical, work hours can have a negative effect on women's health and pregnancy outcomes and can limit time dedicated to childcare.

Role of Women's Empowerment in Child Nutrition Outcomes: A Systematic Review

Marianne V Santoso,¹ Rachel Bezner Kerr,² John Hoddinott,¹ Priya Garigipati,³ Sophia Olmos,³ and Sera L Young^{3,4}

¹Division of Nutritional Sciences, Cornell University, Ithaca, NY, USA; ²Department of Development Sociology, Cornell University, Ithaca, NY, USA; ³Department of Anthropology, Northwestern University, Evanston, IL, USA; and ⁴Institute of Policy Research, Northwestern University, Evanston, IL, USA

- 62 studies were included that assessed the association between a measure of women's empowerment and child nutritional status
- 200 unique empowerment indicators were used to assess 1,316 different associations
- The indicators used were inconsistent and limited in scope
- Evidence is “underwhelming” but likely due to study limitations and not a lack of association

Source: Santoso, M. V, Kerr, R. B., Hoddinott, J., Garigipati, P., Olmos, S., & Young, S. L. (2019). Role of Women's Empowerment in Child Nutrition Outcomes: A Systematic Review. *Advances in Nutrition* (Bethesda, Md.). <https://doi.org/10.1093/advances/nmz056>



Missing dimensions

- Time use, environment, mobility, political, psychological

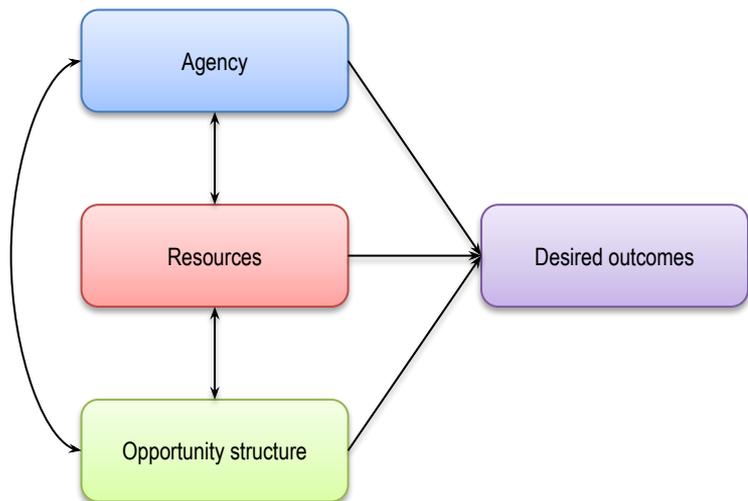
Paucity of datasets on GEWE and nutrition

- DHS country datasets
- Indian National Family and Health Survey datasets

Life cycle approach

- Preponderance of studies and reviews focus on child nutrition outcomes
- Women and adolescents?

The ability to make and act on strategic life choices, where such choice was previously denied.



Components :

- **Agency:** The motivation and ability to make and act on strategic life choices
- **Resources:** The human, material and social resources necessary to act on choice
- **Opportunity structure:** The institutional context in which choice is made
- **Desired outcomes:** The achievements that result from choice and action

(Adapted from Kabeer, 1999, Alsop & Heinsohn, 2005)



1. Identify a set of GEWE indicators to be piloted in the 2019-2020 NIMS survey



2. Explain the relationship between empowerment and adolescent girls' nutritional status



3. Identify effective strategies to operationalize empowerment in nutrition interventions for women of reproductive age and adolescent girls in LMICs

Objective	Methods
Identify a set of GEWE indicators to be piloted in the 2019-2020 NIMS survey	Literature review of studies on the association between empowerment and women/adolescent girls' nutritional status to identify dimensions and indicators.
Explain the relationship between empowerment and adolescent girls' nutritional status.	Exploratory structural equation modelling using DHS data from 5 East African (Ethiopia, Kenya, Rwanda, Tanzania, Uganda) and 3 West African (Nigeria, Senegal, Burkina Faso) countries.
Identify effective strategies to operationalize empowerment in nutrition interventions for women of reproductive age and adolescent girls in LMICs	Campbell Systematic Reviews of 'empowerment-based' nutrition interventions

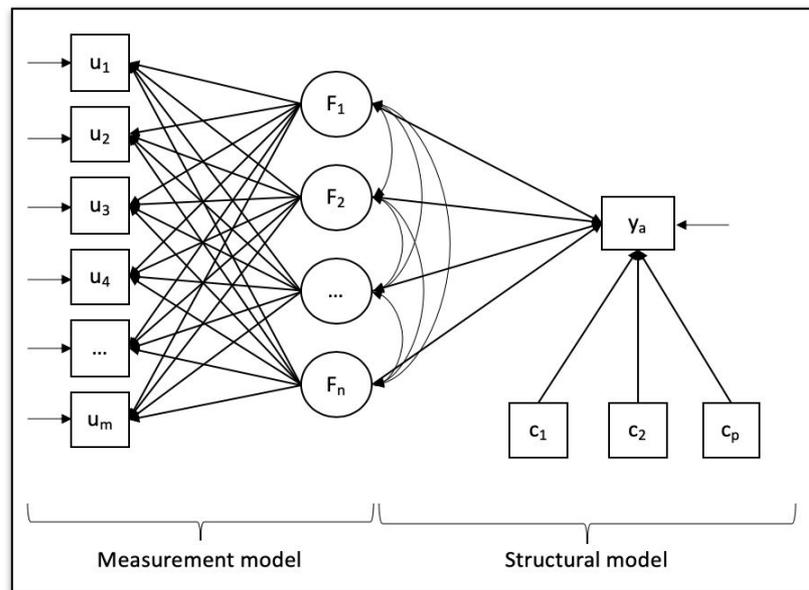
Dimension	Example question (response)
Labour force participation	Do you usually work throughout the year, seasonally, or only once in a while? (Throughout the year / seasonally or part of the year / once in a while)
Asset ownership	Do you own this or any other house, either alone or jointly with someone else? (Alone only / both alone and jointly / jointly only / does not own)
Household decision-making power	Who usually makes decisions about making major household purchases? (Respondent only / respondent and partner / partner only / someone else / other)
Time use	In the last complete 24 hours, how many hours did you spend working? (___ hours)
Freedom of movement	Have you ever gone to any of the following places? Have you gone alone (the market, a health facility, outside the village)? (1 point given for each location visited, additional point given if she has gone alone)

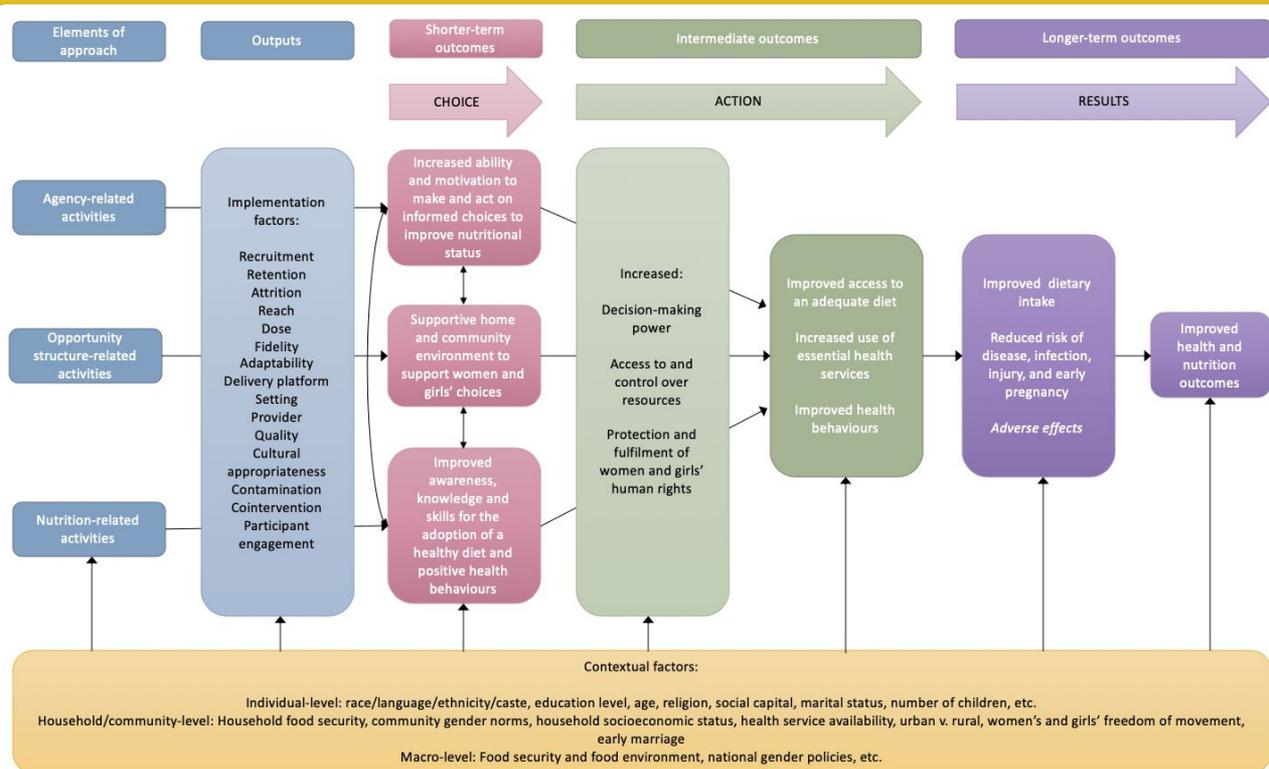
GREAT RESOURCE! <http://emerge.ucsd.edu/>

Factor analysis dimensions and indicators

Dimension	Indicators
Access to information	Level of education completed Watches TV, reads newspaper, listens to radio
Rejection of IPV	Physical violence is not justified if wife burns food, neglects children, goes out without telling husband, argues, refuses sex
HH decision-making	Has a role in HH decision-making regarding large purchases, visits to family/friends, own health care, husband's income
Restrictive socio-cultural norms	Age at first sex and marriage, age and education difference with partner
Asset ownership	Earns cash income, owns land, owns a house
SRH autonomy	Can ask partner use condom, can refuse sex, permission/money not barriers to health care

Structural equation model





Study	Nutrition-related activities	Agency-related activities	Opportunity structure activities	Outcomes
Harris-Fry 2016 CBA, Bangladesh, women of reproductive age	Nutrition and health education	Participatory learning and action women's groups	Engagement with local leaders; community members and men invited to participate	Dietary diversity score MUAC (cm)
Olney 2016 cRCT, Burkina Faso, mothers of young children	BCC nutrition education using the "Essential Nutrition Actions Framework"	Mothers groups	Agriculture production training and supplies BCC delivered by "older women leaders" or health committee members	BMI Prevalence of underweight (BMI < 18.5 kg/m ²) Dietary diversity score
Nair 2017 cRCT, India, pregnant women	Nutrition education	Participatory women's groups	Community mtgs to share plans; meetings with village health and sanitation committees	Dietary diversity score MUAC (cm) BMI
Harris-Fry 2018 cRCT, Nepal, pregnant women	Nutrition education w/ or w/out food transfer	Participatory learning and action women's groups	w/ and w/out cash transfer	Relative Dietary Energy Adequacy Ratios

CONCLUSIONS & NEXT STEPS



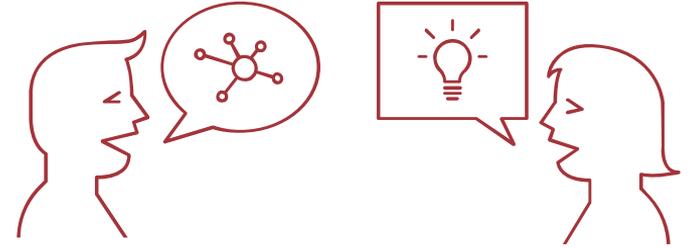
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Country feedback



Harmonization:

Reduced workload during survey development

Liberated time for more quality checks

Gave us indicators aligned globally but specific to our programs – much easier this year!

Data quality metrics:

Allowed timely identification & correction of errors

Grading system helped us demonstrate to stakeholders why sampling was not adequate for disaggregation

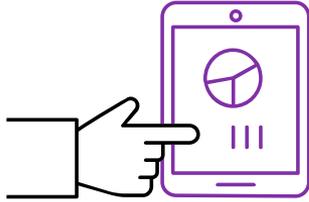
Gender:

Questions were easy to include

We look forward to the findings!



Next steps



- Analyze gender data to inform NI programs
- Update NIMS toolkit
- Adapt the toolkit for routine monitoring
- Evaluate the full survey process
- Develop decision tool to streamline how gender can be integrated into surveys and programming
- Conduct training for NI staff
 - Gender sensitive monitoring and evaluation
 - NIMS toolkit updates
- Develop database aligned with NIMS toolkit



Outcomes from the collaboration

Updates to the NIMS toolkit:



Thank you!

Q&A...



For further inquiries:



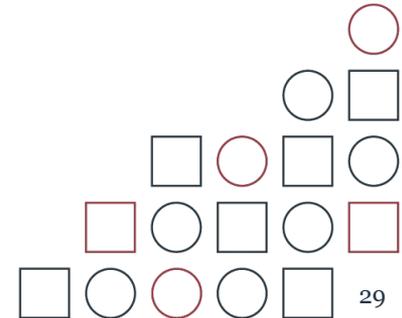
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Overall project & NIMS toolkit
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SUPPLEMENTARY RESOURCES

- [CE-DAT Completeness Checklist Guidelines](#)
- [Standardized Monitoring & Assessment of Relief & Transitions](#)
- [Statistics Canada publication, Chapter 5. Data accuracy and quality](#)
- [Standardised Expanded Nutrition Survey](#)
- [The Campbell Collaboration](#)
- [Riddle et al., 2019. Protocol: The effects of empowerment-based nutrition interventions on adolescent girls' nutritional status in low- and middle income countries](#)
- www.nutritionintl.org

Questions? / Des questions?



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31

Stay tuned

First 100 Days of a Pandemic: Canada's Resilient Global Response

[Link](#)

Wednesday June 17th, 2020
1:00 - 2:00 PM EDT

Restez à l'affût

Les 100 premiers jours d'une pandémie : la réponse mondiale résiliente du Canada

[Lien](#)

Mercredi 17 juin 2020
13 h – 14 h, HAE



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Thank you for joining us!
Merci de vous être joint(e) à nous!

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