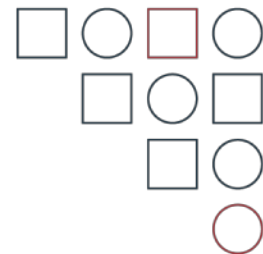


Cost-Effectiveness of MMS verses IFAs during Pregnancy



at the heart of **Multiple Micronutrient Supplementation**

Jennifer Busch-Hallen

Senior Technical Advisor, Maternal Neonatal Health & Nutrition

MMS Cost- Benefit Tool Timeline

GOALKEEPERS



Cost-Effective research
in PK, BGD, ID



Presentation at
the RMNCHN
conference Kenya

Sight and Life
Article

ECF webinar

MNF
presentations

AREA
Webinar

2017

2018

Blogs,
Twitter,
Opinion
pieces

Sept.
2019

Oct.
2019

Nutrition
Modelers
Consortium
Presentation

March
2020

Cost-Effectiveness
Research in PK

Multiple Micronutrient Supplements Are
More Cost-effective Than Iron and Folic
Acid: Modeling Results from 3 High-
Burden Asian Countries

Bahman Kashi, Caroline M Godin, Zuzanna A Kurawski,
Allison M J Verney, Jennifer F Busch-Hallen, Luz M De-
la Cruz
The Journal of Nutrition, Volume 149, Issue 7, July 2019
<https://doi.org/10.1093/jn/nxz052>

Request for
BMGF webinar

Additional
WHO
Guidelines Review



Presentation at
the Indonesia
National MMS
meeting

Evidence: Cost-Effectiveness (1)

Multiple Micronutrient Supplements Are More Cost-effective Than Iron and Folic Acid: Modeling Results from 3 High-Burden Asian Countries

Bahman Kashi ✉, Caroline M Godin, Zuzanna A Kurzawa, Allison M J Verney, Jennifer F Busch-Hallen, Luz M De-Regil

The Journal of Nutrition, Volume 149, Issue 7, July 2019, Pages 1222–1229, <https://doi.org/10.1093/jn/nxz052>

The need remains for country-driven knowledge translation and advocacy to demonstrate the cost-effectiveness of MMS.

ANNALS OF THE NEW YORK ACADEMY OF SCIENCES

Special Issue: *Multiple Micronutrient Supplementation in Pregnancy*
ORIGINAL ARTICLE

Replacing iron-folic acid with multiple micronutrient supplements among pregnant women in Bangladesh and Burkina Faso: costs, impacts, and cost-effectiveness

Reina Engle-Stone,^{1,2} Sika M. Kumordzie,^{1,2} Laura Meinzen-Dick,³ and Stephen A. Vosti^{2,3}

¹Department of Nutrition, University of California – Davis, Davis, California. ²Program in International and Community Nutrition, University of California – Davis, Davis, California. ³Department of Agricultural and Resource Economics, University of California – Davis, Davis, California

What is the MMS Cost-Benefit Tool?

A simple tool to answer a single policy question:

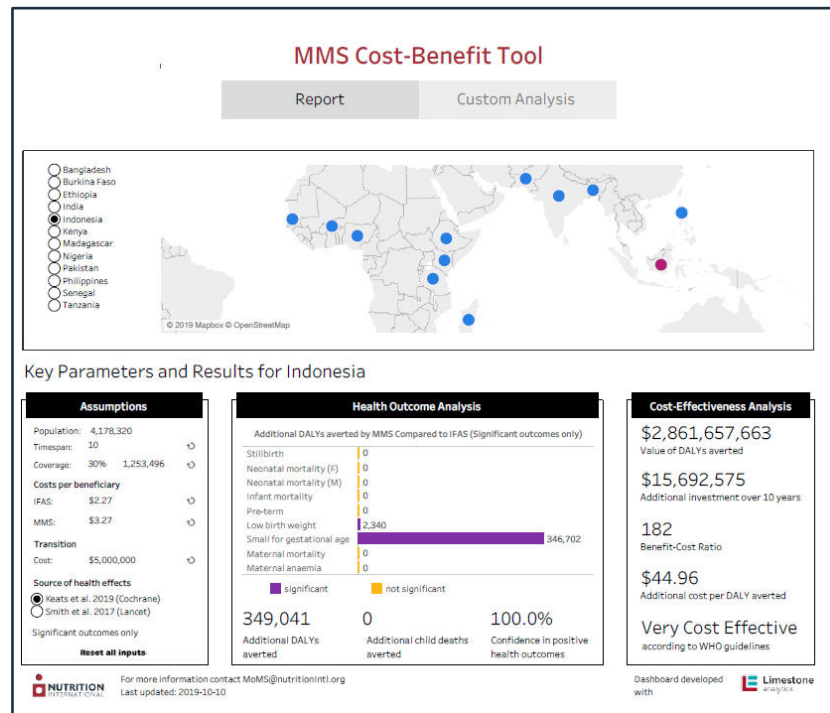
Is MMS better value for money than IFAS?

Purpose:

To support the knowledge translation of economic evidence on IFAS and MMS for countries' decision- and policy-makers

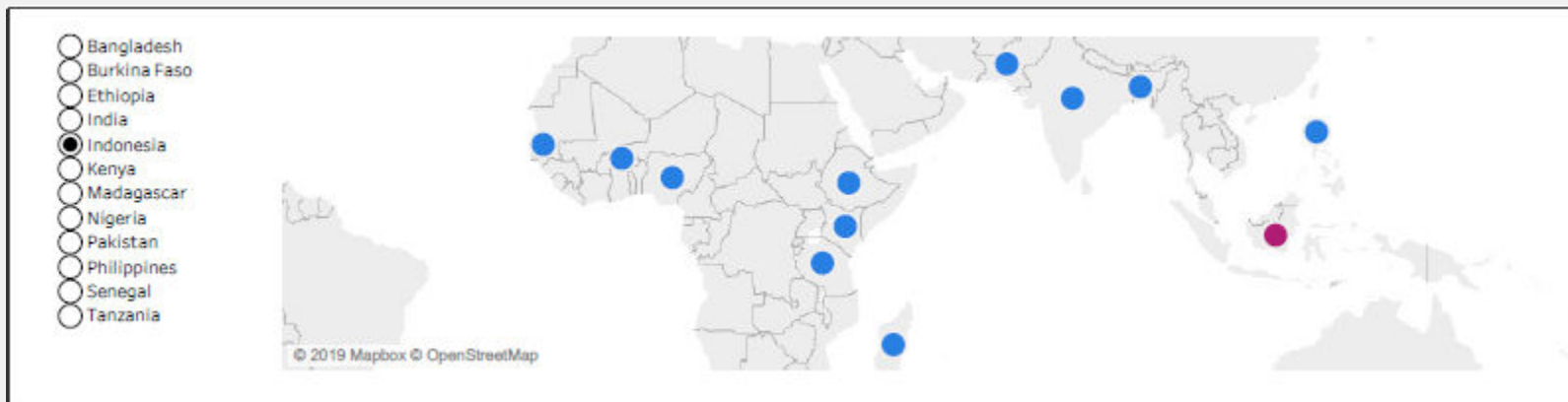
What's unique?

- **Simplicity**, user-friendly, online
- Evidence-based but **rapid**
- **Timely**
- **Dynamic**



Analytical Capacity

- Comparison based on effect sizes from **Smith 2017** / **Keats 2019** systematic reviews
- The tool estimates the impact of MMS compared to IFAS for all significant health outcomes and calculates budget impact, cost-effectiveness, and return on investment.
- Currently for 12 countries in Africa and Asia – and expanding in 2020



¹ Keats et. al. 2019

² Smith et. al. 2017

Demonstration

NutritionIntl.org/mms-cost-benefit-tool/

Learn how good nutrition helps girls become everything they want to be [#SheGrowsIntell](#)

NUTRITION
INTERNATIONAL
Research Life

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MMS Cost-Benefit Tool

KNOWLEDGE LIBRARY

ADOLESCENT NUTRITION COURSE

MMS COST-BENEFIT TOOL

OMNI TOOL



MOMS

at the heart of Multiple Micronutrient Supplementation

Recent evidence has encouraged low- and middle-income countries to consider transitioning from long-standing iron and folic acid supplementation (IFAS) to multiple micronutrient supplementation (MMS) for antenatal care programs. However, global guidance to facilitate this transition is limited. This tool was developed to aid countries' decision-making. It uses a rigorous methodology to calculate the incremental benefits and costs of transitioning from IFAS to MMS in various countries (Kashi et al., 2018).

Users can construct and test different scenarios by updating the assumptions within the tool or running a Custom Analysis. Up to eight health outcomes are included in the analysis, and aggregated using disability-adjusted life years (DALYs).

PLEASE NOTE:

1. The tool will time out if left idle for more than five minutes. Click the refresh symbol in the web-browser to reset. Please be aware the tool will return to default and you will lose any new data.
2. This page must be viewed in Chrome, Firefox, or Edge browsers for the tool to display below and is best viewed on desktop.

USER GUIDE

This guide provides an overview of the functionality of each section and guidance on interpreting the results.

DATA SOURCES

This document provides the recommended data sources for each parameter in the tool.

POWERPOINT TEMPLATE

This is a generic presentation template for communicating the results generated from the tool.

MMS Cost-Benefit Tool

Report

Custom Analysis

☐ Bangladesh

☐ Burkina Faso

☐ Benin

☐ India

☐ Indonesia

☐ Kenya

☐ Madagascar


☐ Nigeria

☐ Pakistan

☐ Philippines

☐ Senegal

☐ Tanzania



© 2019 Mapbox © OpenStreetMap

Key Parameters and Results for Bangladesh

Assumptions	Health Outcome Analysis	Cost-Effectiveness Analysis
Population: 2,044,000	Additional DALYs averted by MMS compared to IFAS (Significant outcomes only)	\$3,696,039,235
Timepoint: Q3	Number of DALYs averted	Value of DALYs averted

Where to access this tool & resources:

- Dissemination and application in various contexts underway
- Tool, relevant materials and Policy briefs: NutritionIntl.org/mms-cost-benefit-tool/
- For more information contact: MoMS@nutritionIntl.org
- Interactive Learning Lab: Learning Center – Micronutrient Forum

