

DELIVERING FOR NUTRITION IN SOUTH ASIA CONNECTING THE DOTS ACROSS SYSTEMS

Association between Maternal and Child Minimum Dietary Diversity in Urban Informal Settlements of Mumbai, India

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DELIVERING FOR NUTRITION IN SOUTH ASIA

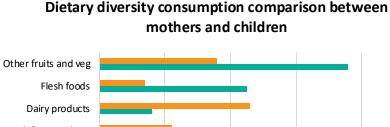
CONNECTING THE DOTS ACROSS SYSTEMS

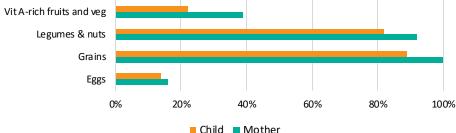
Background

- India still faces high malnutrition rates. In 2021, only 23% of children aged 6-23 months met minimum dietary diversity (MDD), a key indicator for malnutrition.¹
- Mothers play the most vital role in children's diets, not only because they are preparing it, but their diets can influence the child's dietary diversity too.²
- However, behavior change communication (BCC) interventions often focus only on improving children's diets.²
- This study explored the link between maternal and child MDD in urban informal settlements in Mumbai, India.

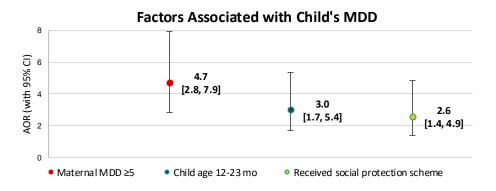
Methodology

- The study involved 454 mothers with children aged 6-23 months who participated in a community-based intervention in urban settlements of Mankhurd, Mumbai.
- Data collected in May 2024, categorized child MDD as adequate if ≥5 out of 8 food groups (including breastmilk) were consumed, and maternal MDD ≥5 out of 10 food groups were consumed in a 24-hour recall.
- Ethical approval: Sigma Research & Consulting Pvt Ltd. New Delhi





After adjusting for covariates, maternal MDD, child's age, and social protection schemes were significantly linked to child MDD, with maternal MDD being the strongest factor.



Covariates: child sex and age; maternal characteristics: maternal age, education, religion, occupation, parity, ANC, wellbeing; Households characteristics: SES, HH members, HH type, husband's support, education and occupation

Results

- Only 31.4% of children aged 6-23 months achieved MDD, compared to 43.5% of mothers.
- When comparing dietary patterns between mothers and their children, notable differences emerge.
- Legumes, grains, and eggs are consumed at similar rates, mothers tend to eat more fruits, vegetables, and flesh foods, while children consume more dairy.
- This discrepancy suggests selective feeding practices, where mothers share certain foods but exclude others, leading to gaps in dietary diversity.

Recommendations

- BCC strategies should ensure that children received the full variety of family meals, rather than a selective subset.
- Interventions should also focus on improving maternal dietary diversity as a strategy to enhance child dietary diversity.
- Expanding social protection schemes and food security can help families, especially in the vulnerable urban areas to have better access to diverse foods.