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(AgN-GLEE)

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For additional presentations and related event materials, visit: http://spring-nutrition.org/agnglee-asia
Aquaculture - Nutrition Linkages in FtF Aqua, Bangladesh: A Case Study

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Bangladesh has made great strides in aquaculture in the past 25 years

Focus on:

• Production and productivity
• Large fish
• Men in aquaculture
• Household income
FtF Aqua Component: Household Pond Aquaculture

Production Technology:
- Polyculture of Carps (large fish) and Nutrient-rich Small Fish, carried out by both men and women

Focus on:
- Partial Frequent Harvesting of Small Amounts of Small Fish
- Household Consumption, especially in Women and Young Children
- Sale of Carps for Household Income
Small Fish
Irreplaceable Animal-source Food
Rich Source of Multiple Nutrients
Animal Protein
Essential Fats
Essential Micronutrients: Minerals and Vitamins

Common Food eaten with Rice
Adds Flavour and Taste to the Meal
Improves Diet Diversity
Enhances Mineral Bioavailability from Foods in the Meal
Cooked with Vegetables, Oil and Spices, further Improving Diet Diversity, Adding Nutrients and Growth-promoting Substances
Processed (dried), Stored - Prolonging Duration of Consumption, Reaching Non-fish Producing Areas
Agriculture - Nutrition Linkages are now in Fashion!

Recent Examples:


Potential CGIAR Research Priorities
Good reference section

World Bank reports (2012 and 2013): Prioritizing Nutrition in Agriculture and Rural Development Improving Nutrition through Multisectoral Approaches

DFID report (2012): Current and planned research on agriculture for improved nutrition: a mapping and a gap analysis

FAO (March 2013): Guiding principles (10) for nutrition-sensitive agriculture

Draft for consultation
Aquaculture - Nutrition Linkages Package in FtF Aqua

Package components:

- Pond polyculture of carps and small fish
- Vegetable production in homestead garden and on dyke
- Promotion of micronutrient-rich small fish and vegetables, especially in women, adolescent girls and young children
- Behaviour change communication (ENA and EHA)
- Gender norms, attitudes and practices
- Monitoring and evaluation
Promotion of Orange Fleshed Sweet Potato (OFSP)

- Suitable for small areas - homestead gardens and dykes
- Requires minimal labour, fertilizer and pesticides; grows well in marginal soils
- Leaves and roots are consumed
- Valuable in times of food scarcity and natural disasters
- Vines are easily preserved by households for planting in subsequent season
Gender and OFSP

- Women in charge of production and harvesting
- Work is in the homestead
- Women have easy access to a well-liked, nutrient-rich food
- Root is suitable for complementary food
- Potential for income generation through sale of leaves and roots
- Income in the hands of women
Nutrient composition
(100 g dried complementary food)

15% dried Darkina fish, 30% sweet potato flour,
10% soybean oil, 45% rice flour

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<th>Protein</th>
<th>Fat</th>
<th>Iron</th>
<th>Zinc</th>
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<td>kcal</td>
<td>422</td>
<td>16 g</td>
<td>12 g</td>
<td>12 mg</td>
<td>6 mg</td>
<td>660 mg</td>
<td>348 µg</td>
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Gender, Nutrition Awareness and Decision Making

Imparting ENA and EHA to Decision Makers
Norms, Attitudes and Practices

- Household approach
- Men - responsible for food shopping
- Mothers-in-law - in charge of kitchen and food distribution among household members
Is it embarrassing for a man to help with household work?

<table>
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<th>Mother-in-law</th>
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Helen Keller International (HKI) 2012
Moving Forward

- Aquaculture staff to be interested in working with other sectors
- Partnerships - untraditional
- Scaling up and out
- Sustainability of activities
- Monitoring: production, productivity, household food security, dietary diversity and nutrient contribution from small fish and vegetables (OFSP), in women, adolescent girls and young children
- Process evaluation
- Impact evaluation on nutrition and health
Thank you