Pharmaceutical Management for Micronutrients and Anemia-Reduction Medicines

Supply -Side Considerations

Academy for Educational Development

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Presentation Outline

- Intervention Site- Uganda & India
- Problem
- Aims
- Methods
- Results
- Global and Country-level Implications

THE PROBLEM - INDIA, JHARKHAND STATE





Estimated rural population ¹	24 million
Any anemia in pregnant women ²	70%
Any ante-natal care (ANC) checkup ²	55 %
3 or more ANC checkups ²	28%
Received or purchased IFA ²	46%
Prenatal IFA supplementation consumed for 90+ days ²	11%

Sources:

¹Registrar General of India, Dec., 2006

²NFHS 2005-06, Jharkhand State Report, May 2008

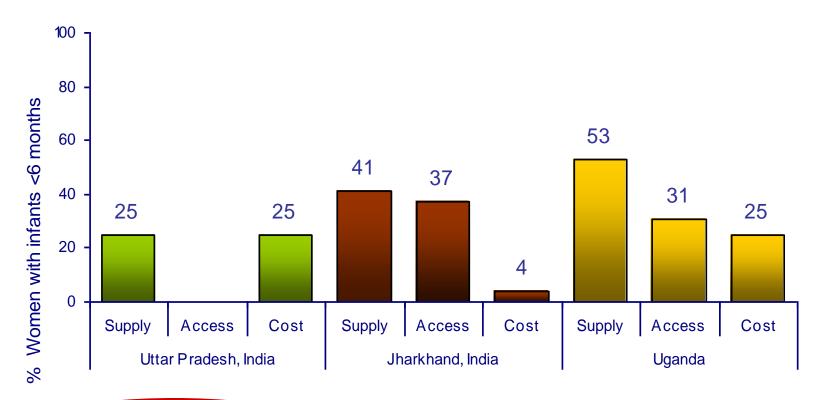
THE PROBLEM: UGANDA



Population ¹	28.5 million
Anemia in pregnant women ²	64%
Any ANC checkup ²	94.5%
2-3 ANC checkups ²	41.7%
4+ ANC checkups ²	47.2%
Prenatal iron supplementation consumed for 90+ days ²	0.70%



The Problem: % of Women Reporting Difficulty in IFA Supply Availability versus Access or Cost of IFA



Supply: Tablets not available/stockout

Access: Site too far away/no transport

Cost: Too expensive

Aims

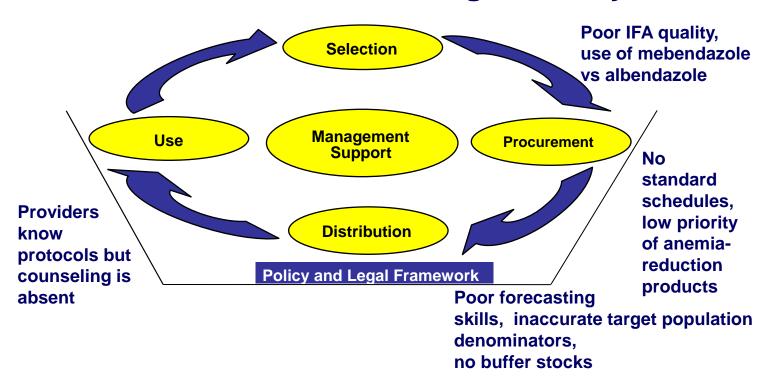
- Improve program impact
- Transfer knowledge and develop toolkit

Methods

- Selected large-scale A2Z program sites in India, Uganda, and Cambodia
- Determined conceptual framework
- Collaborated with stakeholders and engaged international pharmaceutical experts to conduct assessment
- Selected interventions by analyzing options
- Implemented interventions
- Monitored and evaluated results

Determine Framework & Conduct Assessments

Pharmaceutical Management Cycle



Select Interventions

India/Jharkhand State

- Advocate
 National, State, District levels
- Change to a demand-based system
 Estimate needs based on population based
- Develop systems & procedures
 Procurement, forecasting, inventory control, distribution, HMIS, appropriate use
- Build capacity
 Train service providers
 (quantification, counseling, and HMIS use)
 Develop job aids
- Monitor stocks at all levels

Uganda/12 Districts

- Advocate
 National & District levels
- Build Capacity

Train service providers in 12 districts (quantification, counseling, and HMIS use)

Develop job aids

- Develop National Guidelines and Tools for Anemia Reduction
 - Village Health Teams Manual, Supplies Monitoring Checklist
- Monitor stocks at all levels

Results: India and Uganda

India/Jharkhand State

- State procurement of IFA increased 8 fold from 2005/6 - 2008/9
- Deworming medicine selected and procurement increased
- State level MOH logistics staff increased
- Number of service providers trained in supplies management and counseling increased
- Stock outs of IFA and deworming medicines at district and health subcenter levels decreased

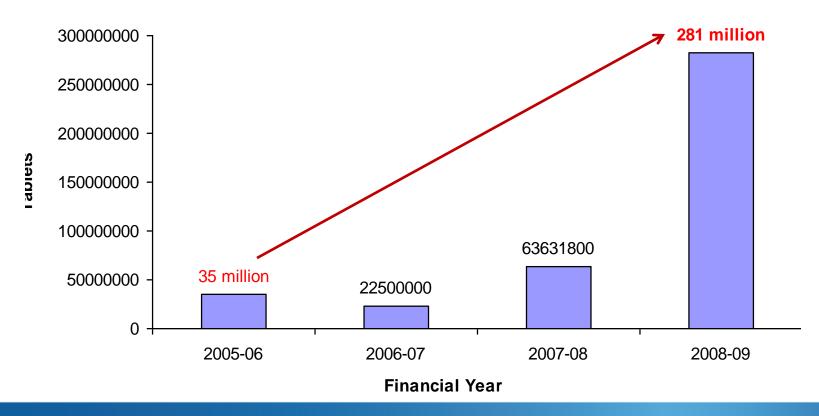
Uganda/12 Districts

- National Medical Stores committed to stock combined IFA (at national level)
- Number of service providers trained in supplies management and counseling increased
- Days of stock out for ferrous sulphate (200mg) and folic acid (500 micro g) reduced
- Days of stock out for deworming medicines (albendazole or mebendazole) reduced

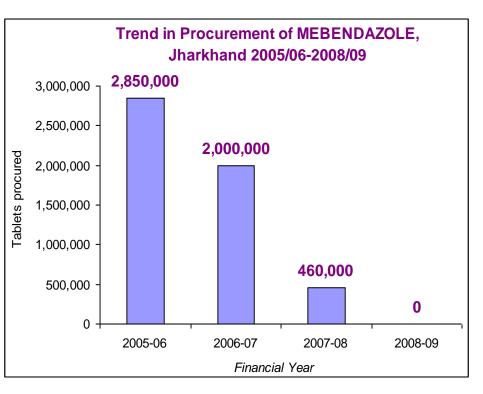
Results:

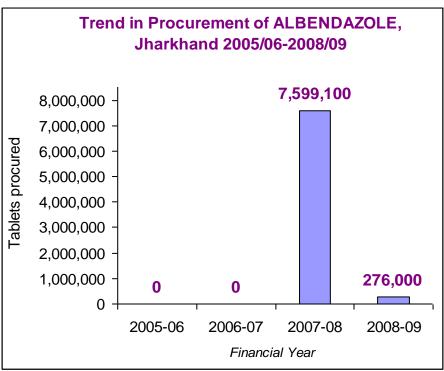
Trend in IFA Procurement (L) Jharkhand State, India 2005/06-2008/09

Micronutrient Drug Procurement IFA (L): Jharkhand

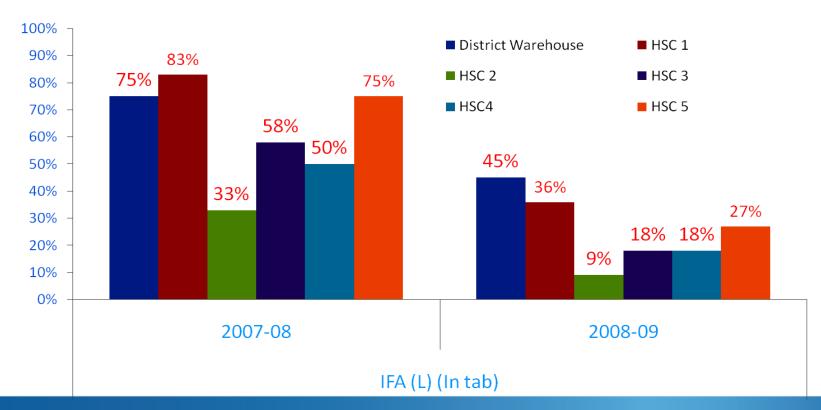


Results: Trends in procurement of
Mebendazole & Albendazole
Jharkhand State, India 2005/06 - 2008/09



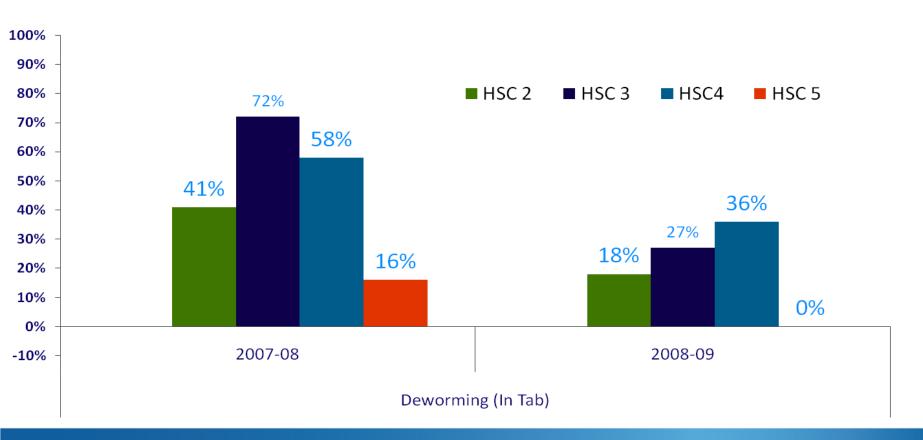


Results: IFA Stock outs, % of Year
Health Sub-center & Dumka District Warehouse
Jharkhand State, India, 2007-08 and 2008-09



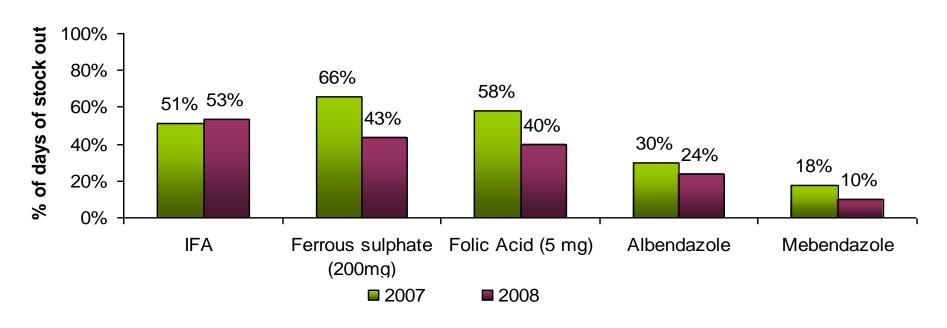


Results: Deworming Medicines Stock outs, % of Year Health Sub-centers, Dumka District Jharkhand State, India, 2007-08 to 2008-09



Results: IFA, Ferrous, Folic Acid, Albendazole, Mebendazole, Stock outs, % of Year, Uganda, 2007 and 2008





Conclusion

- Selection of Quality IFA Tabs-Composition & Packaging
- Estimate based on population- Accuracy of denominators
- Advocacy at National, Divisional, District level to prioritize procurement & supply of Anemia reduction products
- Strengthen systems & procedures- Forecasting, Procurement, inventory control, distribution, HIMS at all levels
- Build the capacity of staffs at all level
- Monitor stock at all levels of supply & distribution-Assess status of stock out

Conclusions: Global and Country Implications

- A systematic strategy can lead to improved availability of anemiareduction products at service delivery points within one year
- The strategy includes stakeholder collaboration, assessments, options analysis, interventions, monitoring and evaluation
- Scaling-up the supply side of proven interventions is key to sustainable reductions in morbidity and mortality from micronutrient deficiencies
- Strengthening pharmaceutical management systems requires investment and a long-term sustainability strategy

Thank You







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