



Use of Zinc in the Management of Diarrhea:

The Public Sector Experience in Nepal

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Initiation

- Evidence base considered by Government of Nepal (GoN)
- Technical working group formed
- Policy on Zinc and low osmolar ORS formulated and endorsed by GoN (2005)
- Training materials for health facility and community level developed and tested







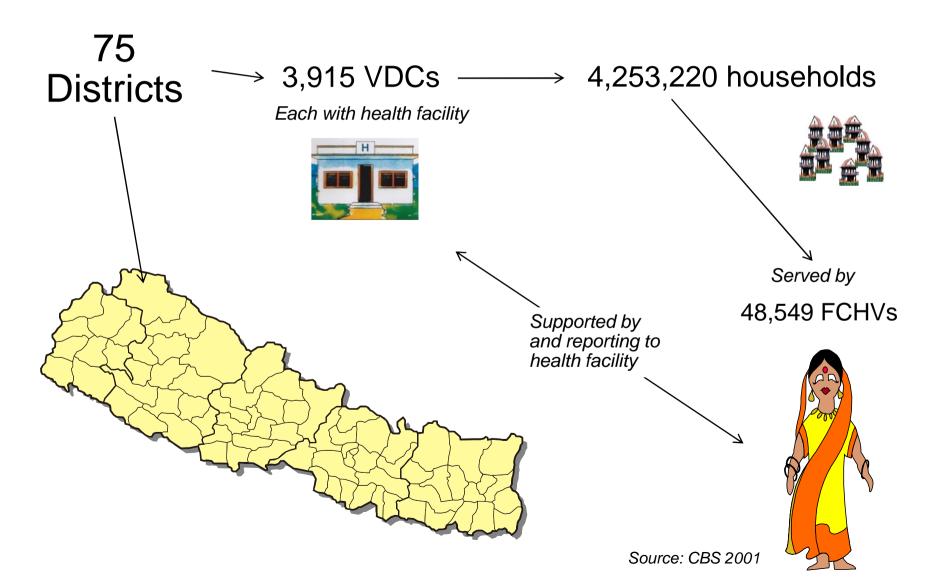
Piloting

- Initially implemented in 2006 in two districts (one Terai, one hill) as a pilot with the financial and technical support of USAID/NFHP
- Strategy for implementation included:
 - Mainstreaming with other program/activities in districts as far as possible
 - Integrating the initiative with Community-based Integrated Management of Childhood Illness (CB-IMCI) program implementation, thus involving Female Community Health Volunteers (FCHVs)
- Procurement of zinc tablets done through External Development Partners (EDPs) for pilot
- Assessment of the piloted districts completed
- Regional and district level orientation started to begin scale up process

Female Community Health Volunteers

Pillars to Nepal's Public Health Programs

Nepal: 23,151,423 total population



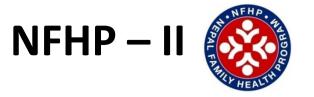


Piloting Results¹

- Of the 596 women surveyed whose children aged 2 to 59 months suffered from diarrhea during the one month preceding the survey, only 29% reported to have given zinc to their children
- ➤ Treatment compliance was moderate, with 41% of the mothers giving zinc for the full 10 days
- However, FCHVs were almost universally knowledgeable about appropriate doses and duration of zinc treatment
- And 85% of FCHVs gave zinc to children encountered and suffering from diarrhea in the last one month
- At health facilities, the mean number of reported diarrhea cases seen in the month before the survey was 16.7, out of which 12.8 cases were treated with zinc and ORS (77%)

¹ Survey of Coverage and Compliance of Zinc in Diarrhea in Rautahat and Parbat Districts. Valley Research, 2007





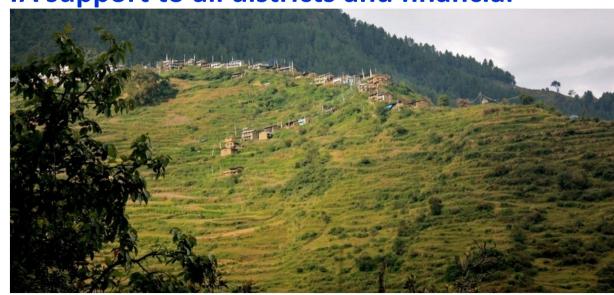
Initial scaling up

- ➤ Initiated orientation for District technical staff, Health Facilities (HFs) and community level health workers in 20 districts (with multiple partners)
- Included zinc with CB-IMCI roll out in 10 districts
- Recording/reporting added to HMIS system (2009)

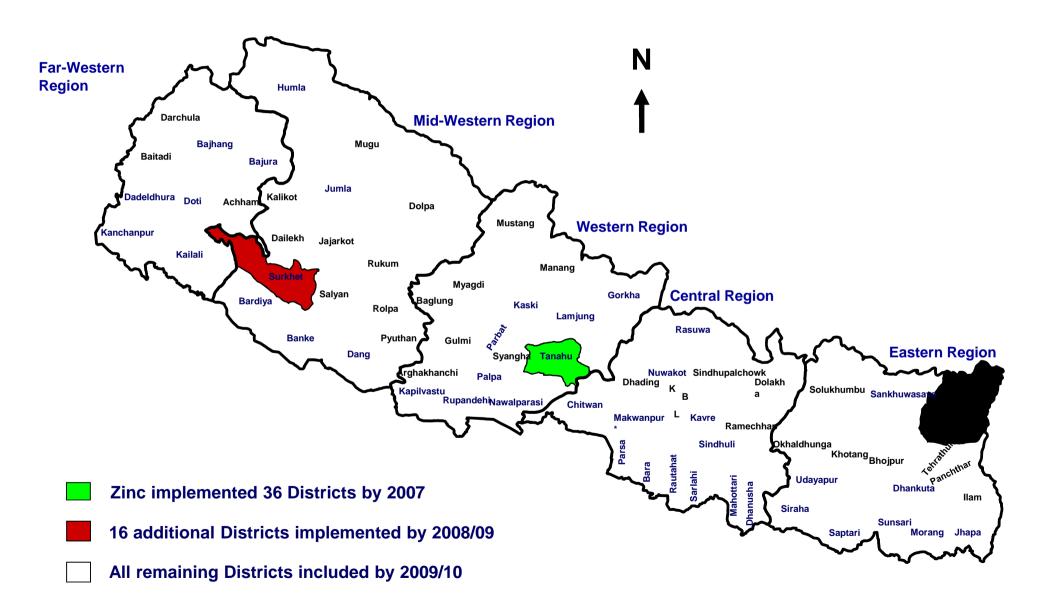
USAID/NFHP provided TA support to all districts and financial

support in 6 districts

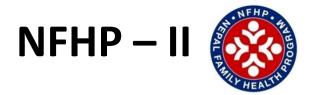
Thus initiated in 36 initial districts



Zinc Program Expansion (2006-2010)







Logistics Supply Mechanism

Central level (Logistic Management Division)



Regional Level (Regional Medical Store)



District level (DHO/DPHO Store)



Health facilities (PHC, HP and SHP Store)

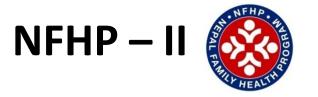


Supply to CHWs



HMIS reported data moves from FCHV upward





Social Marketing

- PSI/USAID supported implementation of social marketing approach in three districts in public and private sector
- Included a drug retailers' orientation in 27 districts
- Production of zinc tablets started by four local pharmaceutical companies with supply to their drug retailers







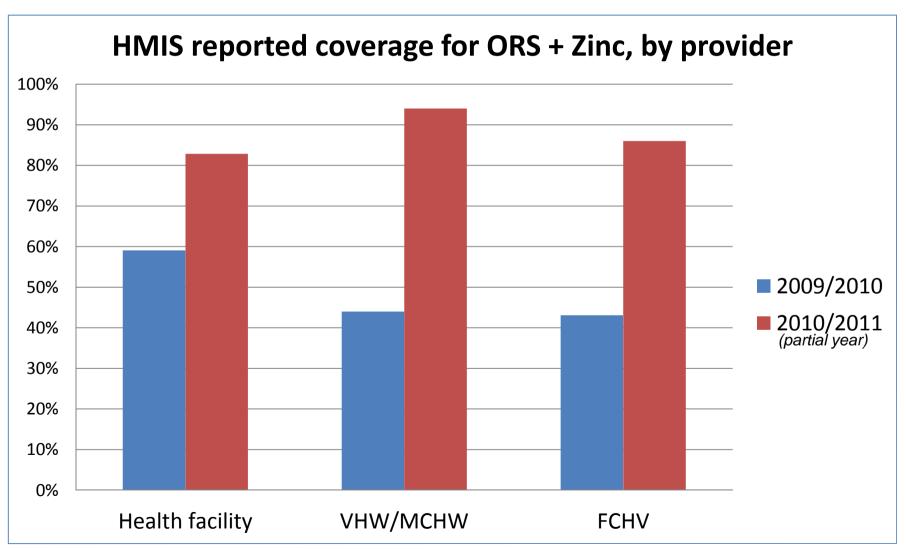
Expansion

- Rolled out with CB-IMCI expansion in all new districts
- Separate expansion completed in remaining districts, achieving national coverage for all 75 districts by 2009/10
- Essential drug list revised in 2009 to include zinc tablets
- ➤ GoN is currently procuring zinc tablets for all implemented districts and supplying through its regular essential drug distribution mechanism
- Regular monitoring has been established at all levels by EDPs and GoN, by inclusion with IMCI indicators within HMIS





HMIS reports¹



¹ Department of Health Services Annual Report, 2009/10; current data 2010/11



Challenges

- Ensuring adequate supply of zinc and ORS down to the community level
- Ensuring and monitoring compliance of mothers' dosing for 10 days
- Continuing regular and supportive monitoring at all levels
- Ensuring accuracy of HMIS monitoring data





