State Initiatives in Maternal and Child Nutrition

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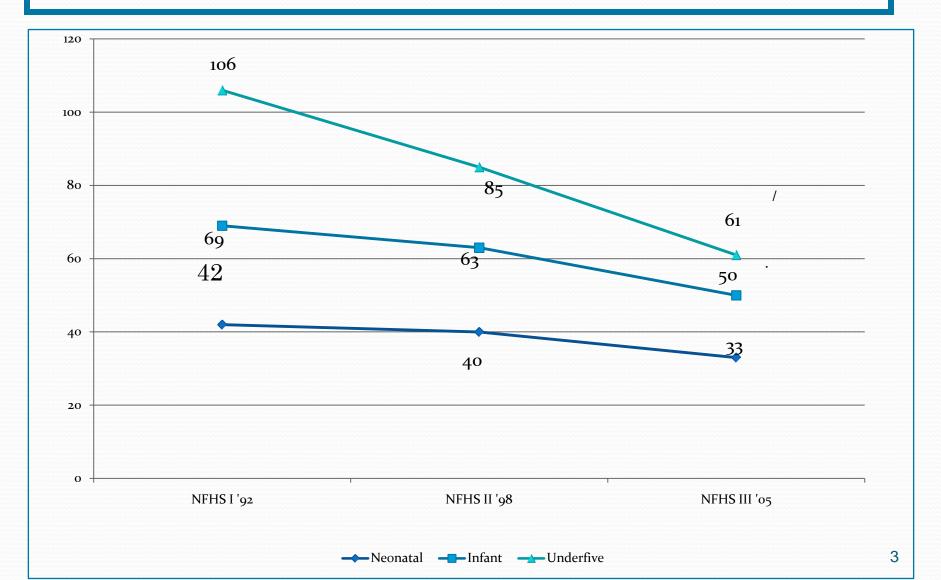




MDG Goal 1990-2015 Swarnim Gujarat Goal 2011-2015

SI. no	Indicator	Current Status	Target 2015
1	Maternal Mortality Ratio	148 (SRS) 2009	100
2	Infant Mortality Rate	48 (SRS) 2009	30
3	Total Fertility Rate	2.5 (SRS) 2008	2.1

TREND OF CHILD MORTALITY RATES



RISKS of being

malnourished...

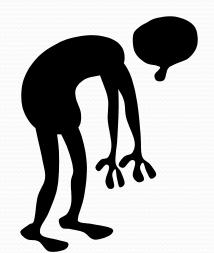
Lowered resistance to disease



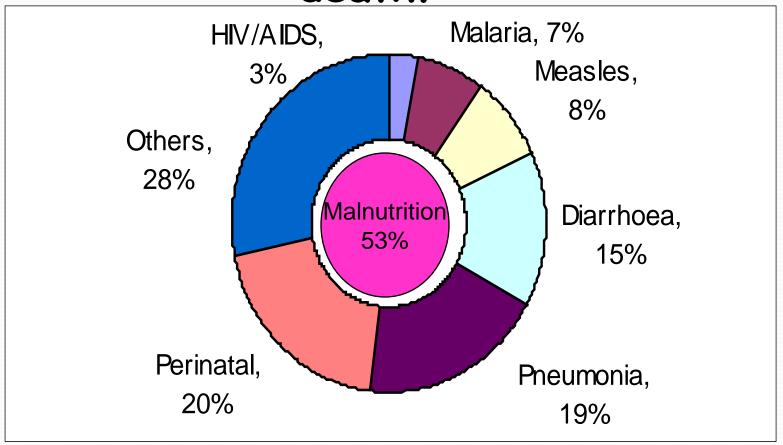
Increased risk of mortality



Reduced physical activity

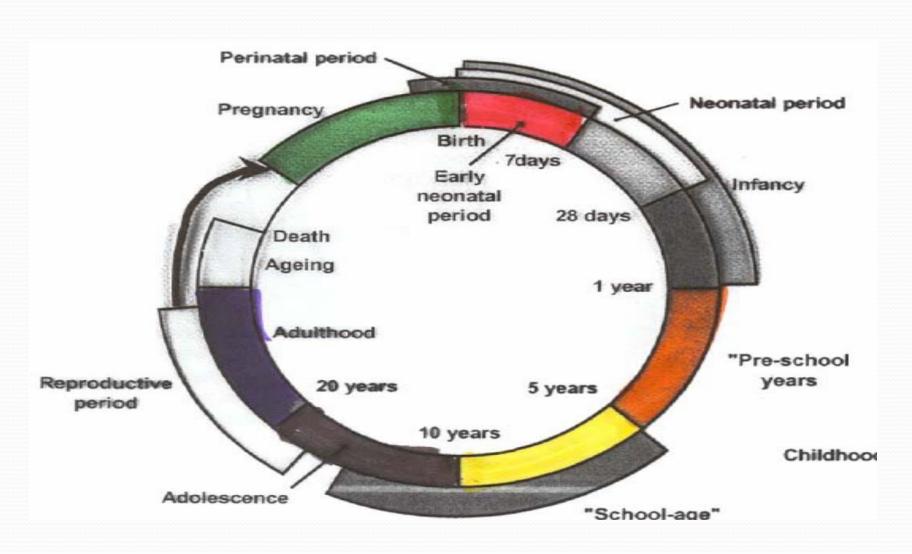


What are the causes of childhood death?

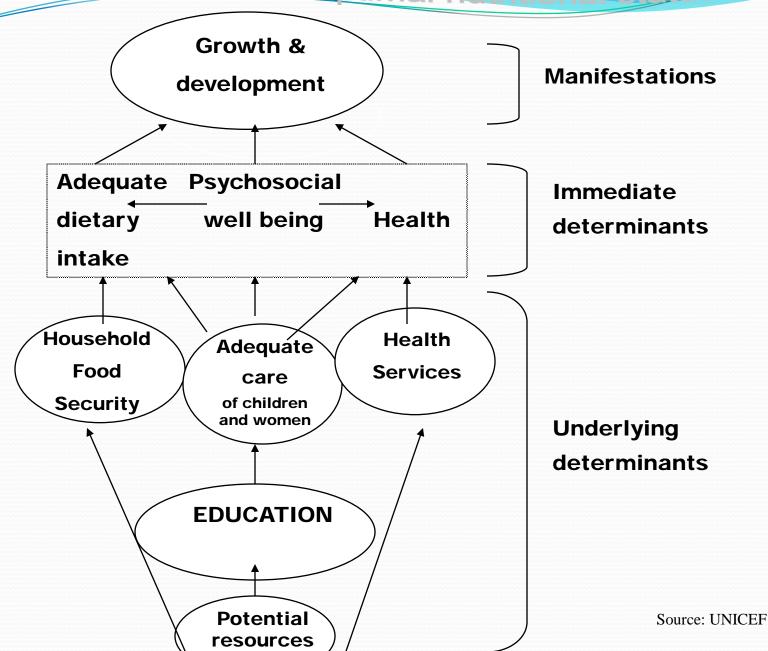


Under-nutrition contributes to 53% of all child deaths

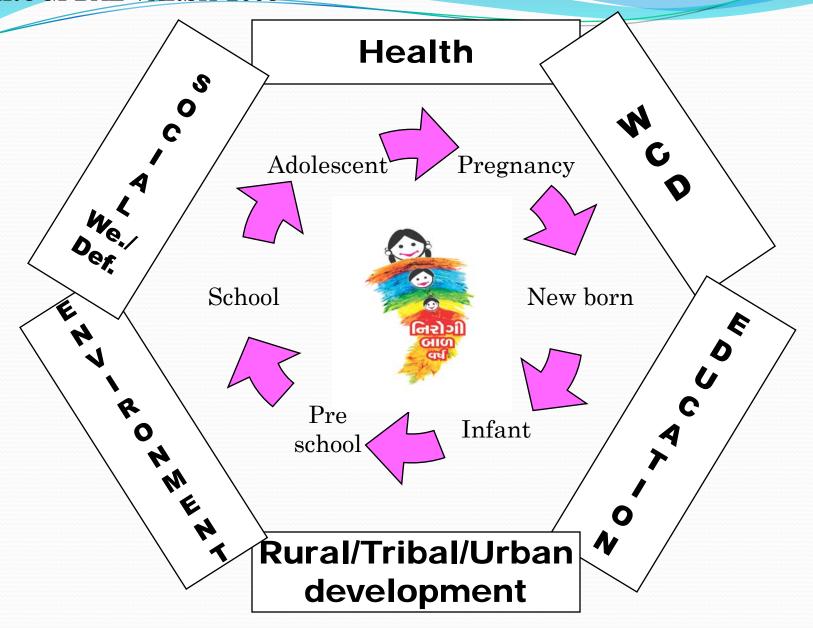
Critical Points for Nutrition in the Life-Cycle



Framework for the promotion, achievement, and maintenance of optimal nutritional status



NIROGI BAL VARSH-2008



Nutrition Intervention Strategy

- •International & National surveys State surveys,
- Monitoring & evaluation data

Evidence to action

Life cycle approach

- Adolescent
- · Reproductive age
- Pregnancy
- Lactating
- Infants
- Under five
- School

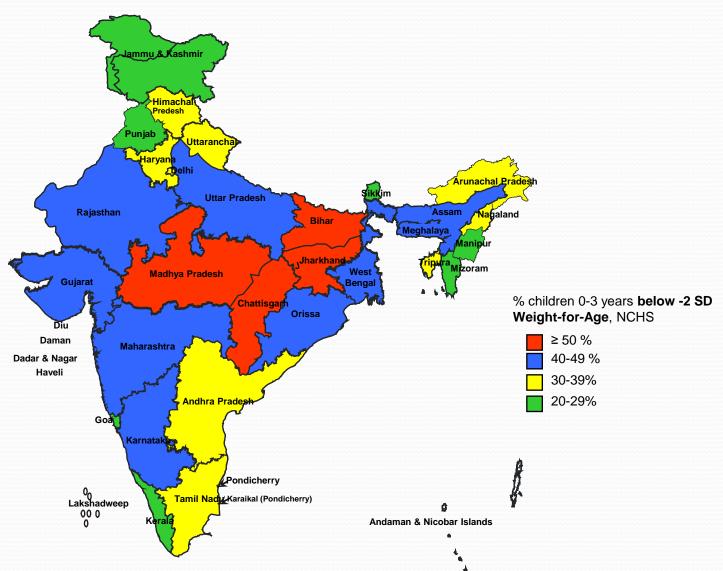
- Macro nutrient
- Micronutrients
- Food gap
- Food hygiene

Holistic intervention

Integrated efforts

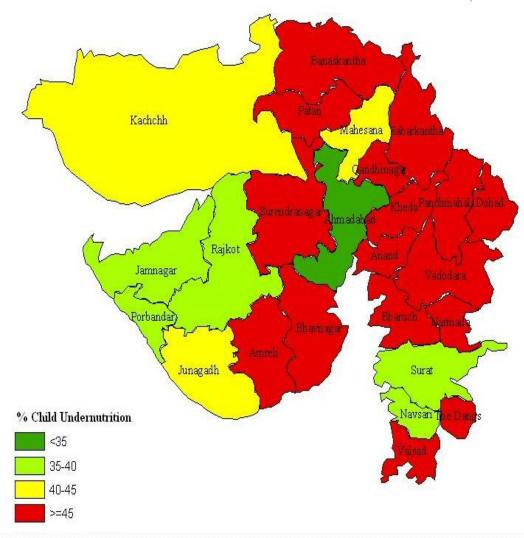
- Health
- WCD
- Education
- Agriculture
- Civil supply

Malnutrition Map of India



Source : National Family Health Survey-III 05-06

Nutrition Situation in Gujarat



- 45% U5 underweight
- 50% Breastfed in 1st hr ***
- 45% Exclusively breastfed **
- 56% Initiate Complementary feeding - 6-9 months

- 24% Get adequate Proteins
 & Calories*
- 80% Anaemic (6-35 m)
- 56% HHs use lodized salt
- 56% Vit A supplement**

NFHS 2005-2006 * NNMB (ICMR) ** DLHS – 2008 ***CES, Unicef - 2009

DLHS-2, 2002-04

Undernutrition is a Multi – sectoral Issue. Needs convergent actions by different Key Departments

DWCD

-ICDS Universalization (Children under 6 years, adolescents girls, pregnant and lactating mothers),

-Energy dense Micro-nutrient Fortified Extruded Blended Dept. of Food and Civil Supplies Food (Bal Bhog, Sukhadi, Sheera and Upma)

- IFA, Nutri-candy, Nutrition Counselling, Pre – School Education.

-lodized salt through PDS/ Mamta day -Fortified wheat flour & edible oil

Health Dept.

- Vitamin A, IFA and Universal Salt Iodization – Micronutrient Programs
- State Nutrition Cell
- Child Development and Nutrition Centers
- Integrated Management of Neonatal and Childhood Illness
- Mamta Abhiyan,
- Mamta Taruni

Tribal Department Doodh Sanjeevani Yojna

TSC & WASMO Department Provision of clean drinking water &

sanitation

Rural Department -Sakhi Mandals

નિરોર્ગ

Dept. of Education

- -Adolescent anemia control
- Mid-day Meal

Gram Panchayat & Cooperatives

- -Kitchen Gardens
- -Village Health and Sanitation Committees

NUTRITION SERVICE NETWORK (HEALTH & FW)



State Nutrition cell-2008 Dept-H&FW

Tertiary Nutrition Rehabilitation centers

Child Development and Nutrition centers

District nutrition units

MAMTA Abhiyan

Structure of State Nutrition Cell

State Level	District/Medical College Level	Block Level
 State Nodal Officer Technical Consultant Nutrition Project Officer Nutrition - 2 Liaison Officer - Health & ICDS Admin Assistant Finance Assistant IDD Technical Officer Statistical Assistant - IDD M & E Assistant Data Entry Operator Lower Division Clerk - IDD Office Attendant National Nutrition Monitoring Bureau Assistant Research Scientist Nutritionist Social Worker Field Attendant 	 Program Associate (26 districts) Nutritionist (6 Govt. Medical Colleges) 	 Nutrition Assistant (68 CDNCs) Cook cum Helper Aya

Nutrition Programs Under State Nutrition Cell

Nutrition Programs Under State Nutrition Cell

- Health & Nutrition Day (MAMTA Abhiyan)
- 2. Adolescent Girls Anaemia Control Program (AGACP)
- 3. Iodine Deficiency Disorder Control Program (IDDCP)
- 4. Child Development Nutrition Centre (CDNC)
- 5. Nutrition Counseling and Rehabilitation Centre (NCRC)
- 6. Vit. "A" regular and Bi-annual Round
- Gujarat Integrated Nutrition Program (GINP)
- 8. Mamta Taruni
- 9. IMNCI
- School Health Program



MAMTA ABHIYAN

- Mamta divas
 - (Health and Nutrition day)
- Mamta Mulakat
 - (Postnatal care visit)
- Mamta sandarbh
 - (Referral service)
- Mamta Nondh
 - (Record & register)



MAMTA ABHIYAN

MAMTA DIVAS

- H & N DayOnce a month
- Immunization
- Growth monitoring
- Balbhog
- Pregnancy testing
- ANC/PNC
- lodized salt
- Care of sick children
- Counseling
- Promotion of Inst deliveries



MAMTA MULAKAT

- PNC visits
- 48 hrs Hosp stay
- Vit.A
- IFA/Calcium
- IMNCI practice



<u>MAMTA</u> SANDARBH

- Once a week
 Specialist clinic
- Drugs/Logistics

MAMTA NONDH

- MAMTA card
- Registers
- Service data
- Review of data





Social mobilization is critical for ensuring utilization of health and nutrition services

Health Intervention-MAMTA Divas

- Immunization: Children/Pregnant women
- Weighing of Children (0-3 yrs) & plotting on Mamta card
- IFA to Pregnant, Lactating & out of school Adolescent Girls
- 1.5 Kg iodised salt to Pregnant & actating women/month
- ANC (BP, HB, Urine examination, Folic Acid/Calcium tablets, Physical examination etc)
- PNC (Calcium tablets, Vit A etc)
- Assessment of sick children using IMNCI protocol
- Counseling on Nutrition & Institutional Delivery
- Community growth monitoring



Vitamin A supplementation Programme













Vitamin A Supplementation Programme

Vitamin A
Supplementation
Programme for

< 5 Children

Vitamin A
Supplementation
Programme for

Postnatal Mothers

To Obtain high coverage Gujarat adopted Biannual Round Strategy

Routine immunization

Biannual Round (Feb. & Aug.)

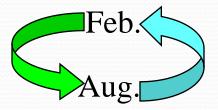
9 months to 12 months

1 to 5 years

Dose 1

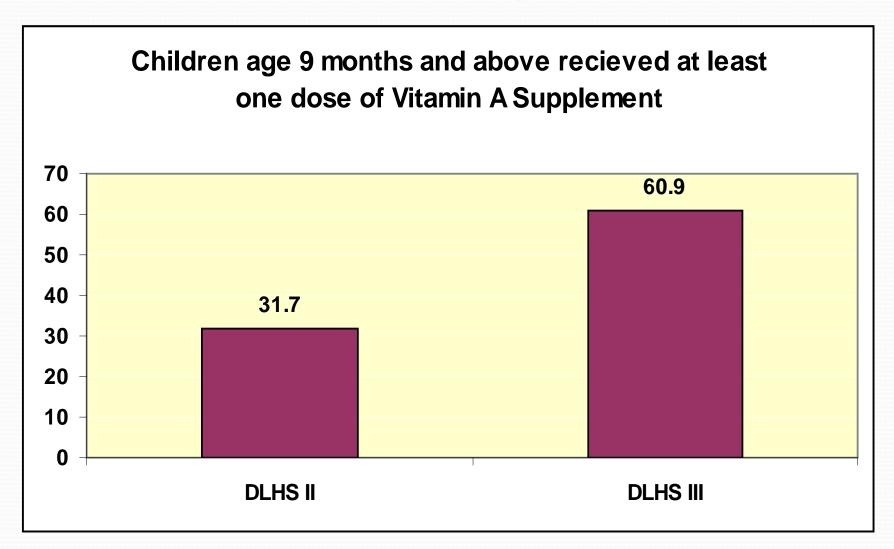
Dose 2 Dose 3 Dose 4 Dose 5

Dose 6 Dose 7 Dose 8 Dose 9



Vitamin A supplementation Programme may be the single most cost effective child survival intervention.

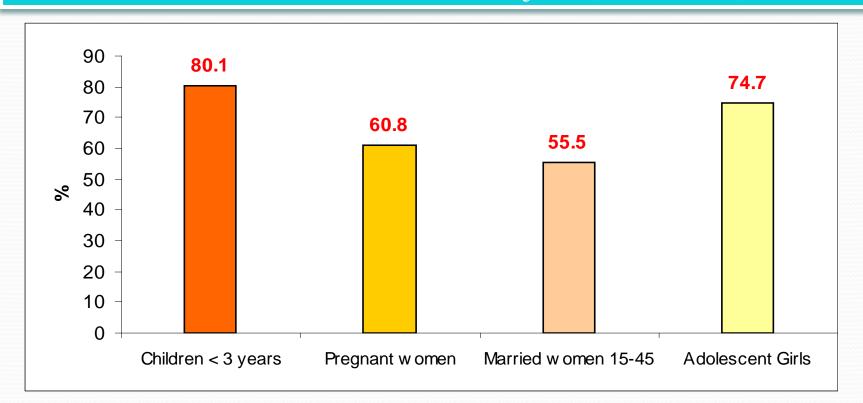
Status of Vit. -A in Gujarat



Source: DLHS - 2002 and DLHS - 2007

Anaemia Control Programme

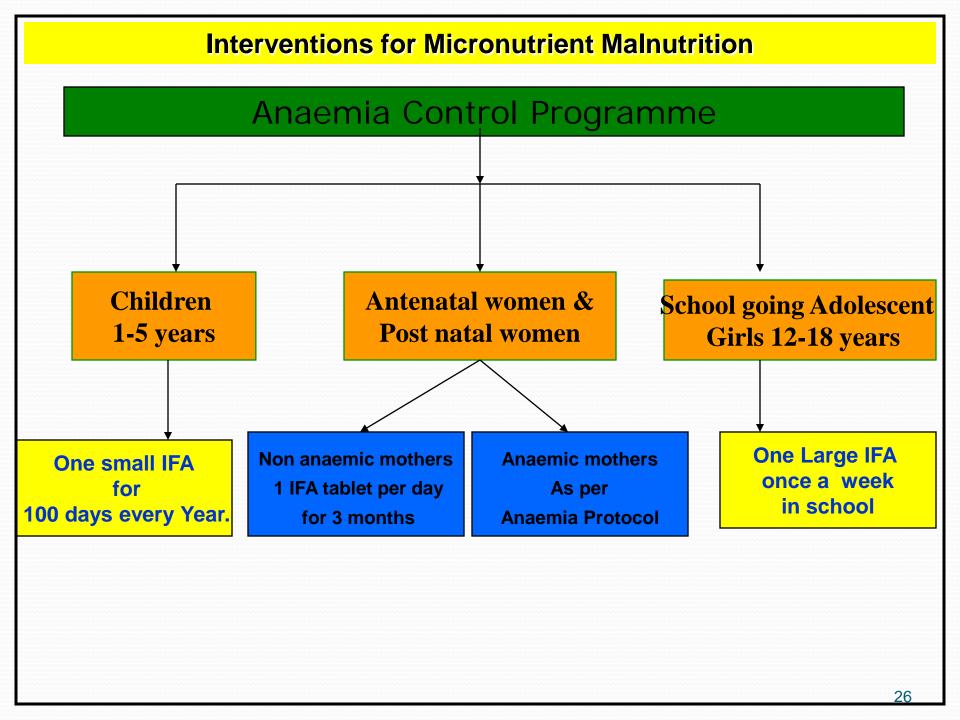
Prevalence of Anaemia in Gujarat (NFHS III)



Iron Deficiency Anaemia affects 50% population in India

Anaemia is characterized by a low level of Haemoglobin in the blood, which is essential for transport of Oxygen.

25



Adolescent Girls Anaemia Control Program (AGACP) in Gujarat (2005 Onwards)

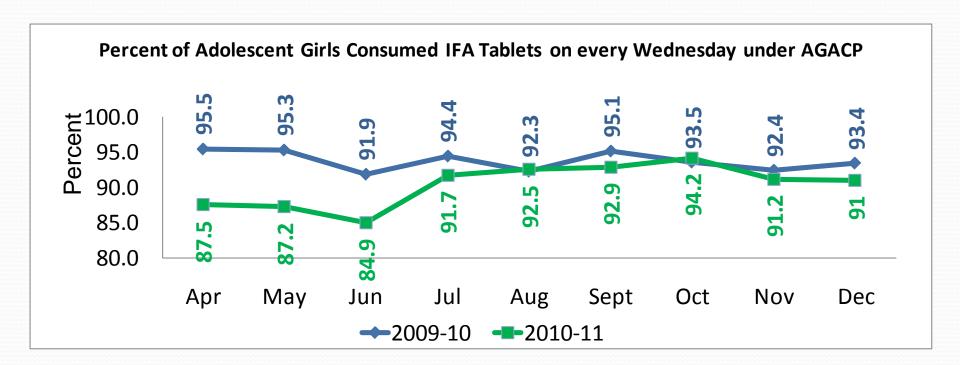
Adolescent Girls Anaemia Control Program (AGACP) in Gujarat

- **Goal**: At least 20% reduction in the prevalence of anemia among adolescent girls.
- Interventions: Since 2004, adolescent girls of secondary and higher secondary schools (Standard 8th to 12th) are given one tablet of IFA every Wednesday under supervision of teacher.
- Out-of school adolescents in each village are being supplemented with IFA tablets on Mamta Diwas under Mamta Taruni Program (Through Health).

Adolescent Girls Anaemia Control Program (AGACP) in Gujarat

- 1. Average no. of adolescent girls attending "Shala Vikash Sankul" every month (2010-11 upto Dec)
- 2. Average no. of adolescent girls consuming IFA tablets in front of teacher on Wednesday every month
- 3. Percent of adolescent girls consuming IFA tablets

13,10,864 11,87,402 90.6%



Source :- Education Dept.

Anemia control



Health:

- IFA supply to ANC and PNC (98%)
- IFA course completion by ANC 30%
- State protocol of Anemia management in ANC and Preschoolers

Interventions:

- IFA DOT
- Hb estimation by colour scale
- Adolescent anemia (MAMTA Taruni)
- Building up counseling skills
- IEC/BCC

WCD ICDS:

- Enhanced coverage
- Fortified supplement
- Qualitative content
- Iodised salt" distribution under PDS 68%

Civil supplies:

- Fortified wheat flour supply to antyoday families (92%)
- Soya fortification

Forest:

- Drumstick plantation (76% target covered)
- Mechanism for making saragava available to the poor families

Gram panchayat:

- Community kitchen garden(100%)
- Awareness and ownership

Co operatives;

- Vegetable banks (100% of the target societies)
- Dudh dan; shak dan and sukhdi vitran

lodine Deficiency Disorder Control Programme



Goal

 HH consumption of adequately iodized salt is scaled up to 80%

Interventions

- Iodized salt promotion campaigns
- 1.5 kg iodized salt distribution to all pregnant and lactating women through Mamta Diwas
- Salt testing is being done at grass root level by Female Health worker
- Six regional IDD monitoring laboratories established in six government Medical College
- Regular IDD surveys by Government Medical Colleges
- Advocacy and sensitization of salt producers for adequate iodization.
- Awareness programme in schools

Iodine is an essential micronutrient. Required for normal body growth and mental development.

The effect of Iodine deficiency is **Most critical**

during **Pregnancy** and **Childhood**. It could result in:

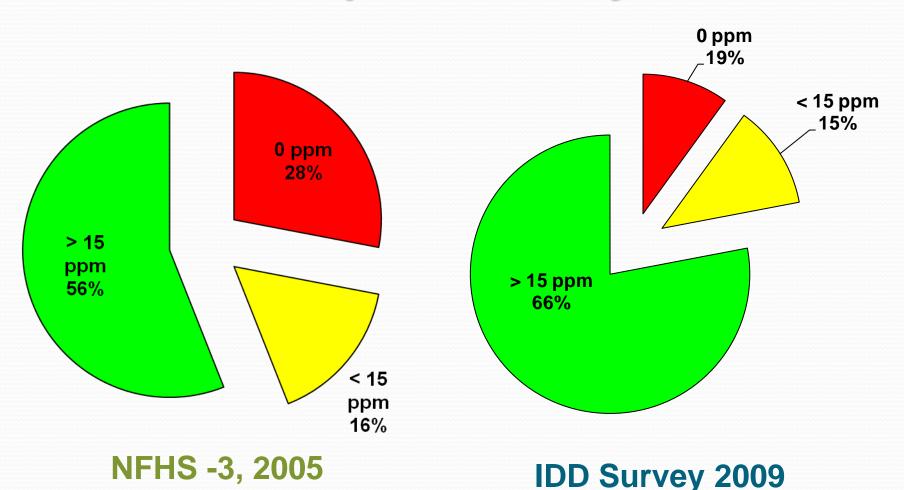
- Abortion
- Still Birth
- Birth of Mentally Retarded babies

- Goiter
- Dwarfism
- Deaf –mutism
- Squint
- Neuro motor disorders

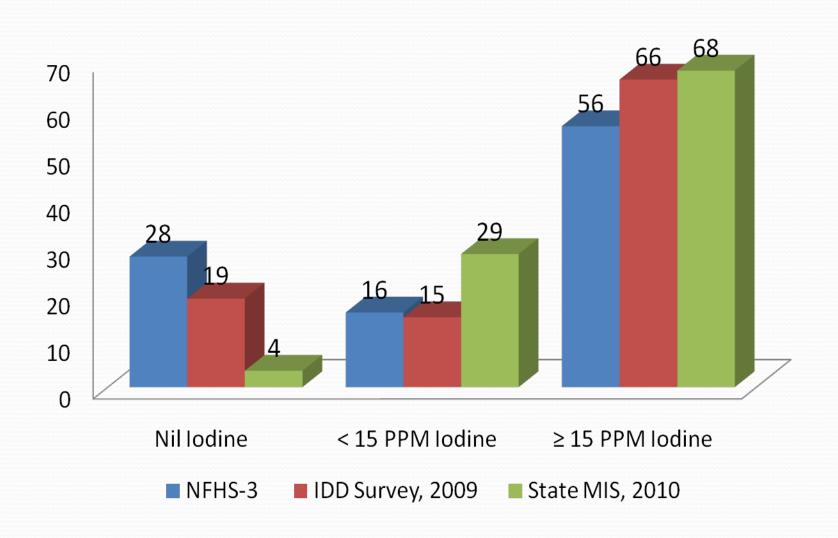
These disorders can be prevented easily before they occur.

The simplest method to prevent disorders of Iodine deficiency, is to consume Iodated Salt daily. This is the most effective and inexpensive intervention to prevent IDD

Status of Adequate lodized Salt Consumption in Gujarat



Status of Iodised Salt Consumption and Achievement of NIDDCP



CHILD DEVELOPMENT NUTRITION CENTRE (CDNC)





Objective

- To provide treatment and nutritional care to the severely malnourished children
- To ensure adequate nutritional supplementation under the guidance of a nutritionist
- To arrest the number of Growth Faulters and Growth Defaulters (GF/GD)
- Capacity building of mothers on IYCF (infant and young child feeding practices) and child feeding and training on preparation of low cost nutritious diet

Activities

- Severely malnourished (Red Zone) children admitted who were identified on Mamta Diwas and from Village meeting conducted by village team
- Children are given nutrition rich food under guidance of nutritionist, medicines for identified diseases and infection
- Diet is modified according to child age and health
- Mothers counseled on various topics of Health & Nutrition

Status of CDNCs Year 2010-11 and 2011-12(1st Quarter)

Particulars	Year 2010-11 (up to Mar'11)	Year 2011-12 (Apr to June)
Districts	18/20	19/20
Functional CDNCs	67/73	68/73
Reporting CDNCs	60	63
Population covering under CDNCs	1,47,36,926	1,53,84,949
Village meetings Organized/Planned	3327/4311	1239/1628
AWCs covered in village meetings	5208	1701
Children weighed	1,56,436	55282

Particulars	Year 2010-11(up to Mar'11)	Year 2011-12 (Apr & June)	
Children found in Red Zone	28082 (18.0%)	9578(17.3%)	
SMCs admitted	10867 (38.7%)	4633(48.4%) 4409(95.2%)	
SMCs completed 10 days	10320 (95.0%)		
SMCs drop-out	547 (5.0%)	224(4.8%)	









5/30/2013

Gujarat Integrated Nutrition Project

Gujarat Integrated Nutrition Project

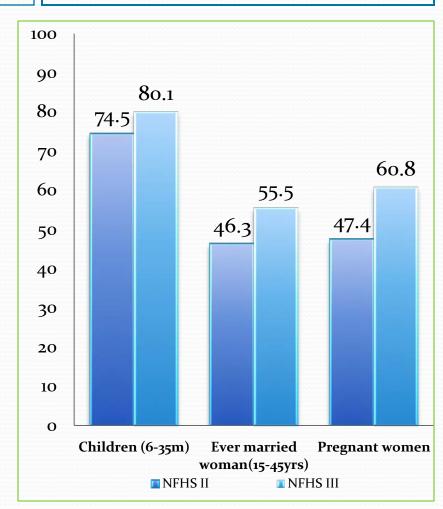
- For effective implementation of Inj. Iron sucrose therapy in severe anemia cases training workshops were conducted at Surat, Vadodra and Ahmedabad Medical colleges to cover 12 tribal districts in 3RDD regions.
- RDDs, CDHOs, CDMOs, RCHOs, Gynecologist, Superintendents of CHCs, District Hospitals (DH), Sub District Hospitals (SDH) participated in that workshop.
- Though inj. Iron Sucrose have not been provided through State, purchases are being made through RKS and other sources and in that way, activities have been started at many of the places.
- An amount of 2.32 crores has also been released for expenditure on
 - 1)Transportation and wage loss to mothers (Rs. 50+Rs. 50) for average 10 visits
 - 2) Lab. investigation and consumables needed for severe anemia treatment through respective RDDs.
- Purchasing of Inj. Iron sucrose is in under process whereas acceptance of tender for haematological analyzers have been made.

GINP

Gujarat Integrated Nutrition Project Suggested Interventions

- Universal screening and Hb.
 estimation of pregnant and Breast
 feeding women, adolescent girls by
 automated haematology analyzers
 in 12 tribal districts
- Universal Screening of the children in the age group o- 5 years by palmer-pallor method
- Severe Anemia Treatment with intra venous injection of Iron sucrose complex.
- Convergence of the Health and the WCD Department

ANEMIA PREVALENCE RATE IN GUJARAT





Mamta Taruni Abhiyan Gujarat

Programmes for Adolescents in the State

- 1. Adolescent Friendly Health Service
- 2. MAMTA Taruni Abhiyan
- 3. Promotion of Menstrual Hygiene
- 4. Scheme for Empowerment of Adolescent Girls (SABLA)
- 5. Adolescent Girl's Anemia control Programme
- 6. School health program
- 7. Sickle Cell Anaemia/Thalesemia control program
- 8. ICTC/PPTCT



Purpose of Mamta Taruni Programme

- Special intervention for **out-of-school girls aged 10 to 19 years**, who are always excluded from health services. Also girls enrolled in school but **not attending school** are provided services.
- To meet the special needs in health, nutrition, and life skill development.
- In **2009-10**, **9 districts** namely:- Dahod, Tapi, Banaskantha, Panchmahal, Narmada,
 - Sabarkantha, Bharuch, Vadodara, and Dang were covered on pilot basis.
- In 2010-11 the scheme was implemented in all 26 districts of Gujarat.



Roles of Health and ICDS Functionaries on Mamta Taruni Abhiyan

FHW	AWW	ASHA	PE
 Calculation of BMI. Maintenance of records TT Immunisation, Hb.estimation IFA supplementation to adolescent girl 	 Registration of Kishori Measurement weight and Height Purak poshan 	 • Mobilisation of adolescent girls • Monitoring the consumption of IFA tablets during home visits 	 Providing leadership to the group. Life Skill Education through Hum Tum Module. Coordination with



ICDS Nutrition Programs

- 1. **Kishori Shakti Yojana:** To improve the nutritional, health and development status of adolescent girls, promote awareness of health, hygiene, nutrition and family care.
- 2. **SABLA:** It aims at empowering adolescent girls of 11-18 years by improving their nutritional and health status, upgradation of home skills, life skills and vocational skills.
- 3. **Annaprashan Divas**: Celebration of Annaprashan in AWC on Fourth Friday of every month to improve complementary feeding practices.
- 4. Ready to cook Take Home Ration specific to needs of children under 6 years of age, pregnant, lactating mothers and adolescent girls (Bal Bhog, Sukhadi, Sheera, Upma)

Cont.

ICDS Nutrition Programs

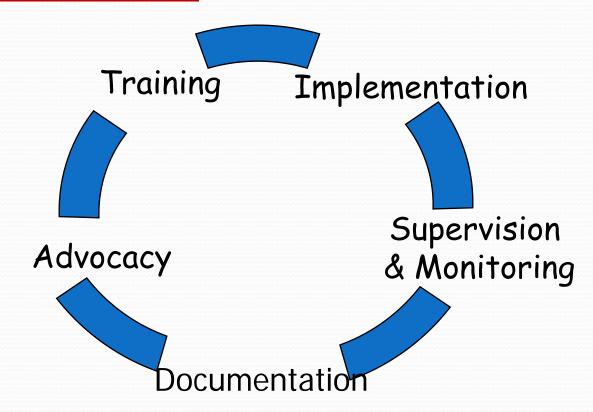
- 5. **Decentralisation:** Fruit, Milk and Breakfast distribution through Matrumandals / SHGs
- 6. **Growth Monitoring:** Children below the age of three years of age are weighed once a month and children 3-6 years of age are weighed quarterly. Weight-forage growth cards are maintained for all children below six years.
- 7. **Nutrition and Health Education (NHED):** BCC (Behaviour Change Communication) strategy in the age group of 15-45 years about their own health, nutrition and development needs as well as that of their children and families.
- 8. Indira Gandhi Matritva Sahyog Yojana (IGMSY) A Conditional Maternity Benefit Scheme: Encourages the women to follow (optimal) IYCF practices including early and exclusive breast feeding for the first six months. Contributes to better enabling environment by providing cash incentives for improved health and nutrition to pregnant and lactating mothers.

Nutrition related Training in Child Health

Nutrition related Training achievements in Child Health up to July, 2011

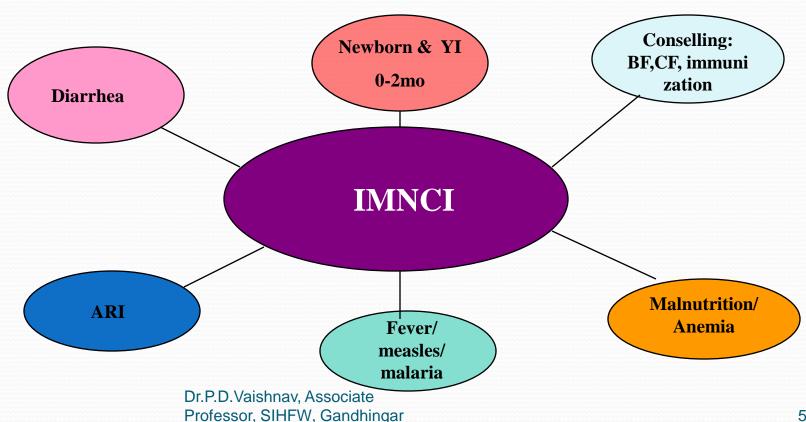
Name of Trainings	Achievement up to July, 2011	Cumulative Achievement-Since Inception	Since Year
IMNCI	331-MO 5719 FHW/ AWW	1695-MO 38067 FHW/AWW Total - 39762	2005-06
NSSK	1058-MO 5760-FHW/SN	1058-MO 5760-FHW/SN Total - 6818	2010-11

IMNCI/F-IMNCI/ NSSK: Not just a training package but Nutritional Intervention



Child health Trainings boost Nutritional Behavioral Change in Communities.

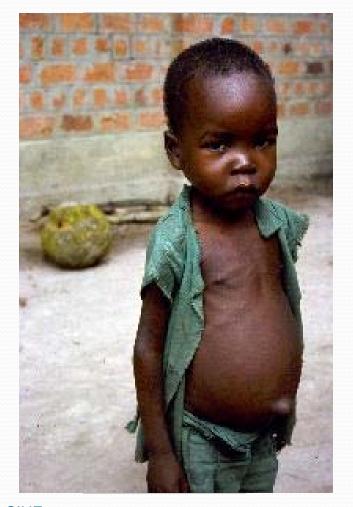
IMNCI-Gujarat



Conclusion

"Many things we need can wait.
The Child cannot. Right
now is the time his bones are
being formed, his blood is being
made and his senses are being
developed. To him we cannot
answer "Tomorrow".
His name is "Today"."

- Gabriela Mistral -









Thank You...