

Adaptation of the Integrated Management of Newborn and Childhood Illness (IMNCI) Strategy for India





Goals of IMNCI

- **Standardized case management of (evidence based syndromic approach) sick newborns and children**
- **Focus on the most common causes of mortality**
- **Nutrition assessment and counselling for all sick infants and children**
- **Home care for newborns to**
 - promote exclusive breastfeeding
 - prevent hypothermia
 - improve illness recognition & timely care seeking



Essential components of IMNCI

- **Improve health and nutrition workers' skills**
- **Improve health systems**
- **Improve family and community practices**

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Major Adaptations

- **The entire 0-5 year period covered including the first week of life**
- **50% of training time for management of young infants (0-2 months)**
- **The order of training reversed; now begins with management of young infants**
- **Reduced training duration (8 days), separate training materials for physicians & health workers**
- **Management now consistent with current policies of the MoHFW**
- **Home-based care of young infants by health workers added**

Potential of the adapted IMNCI Package

- **Accelerating the reduction in infant and child mortality in both rural and urban areas, particularly by its impact on neonatal mortality through home and facility based care**
- **Lower burden on hospitals, particularly in urban areas where access to care is not a limiting factor**
- **The package has been organized in a way that states with low post-neonatal infant mortality can use 0-2 month training material only**

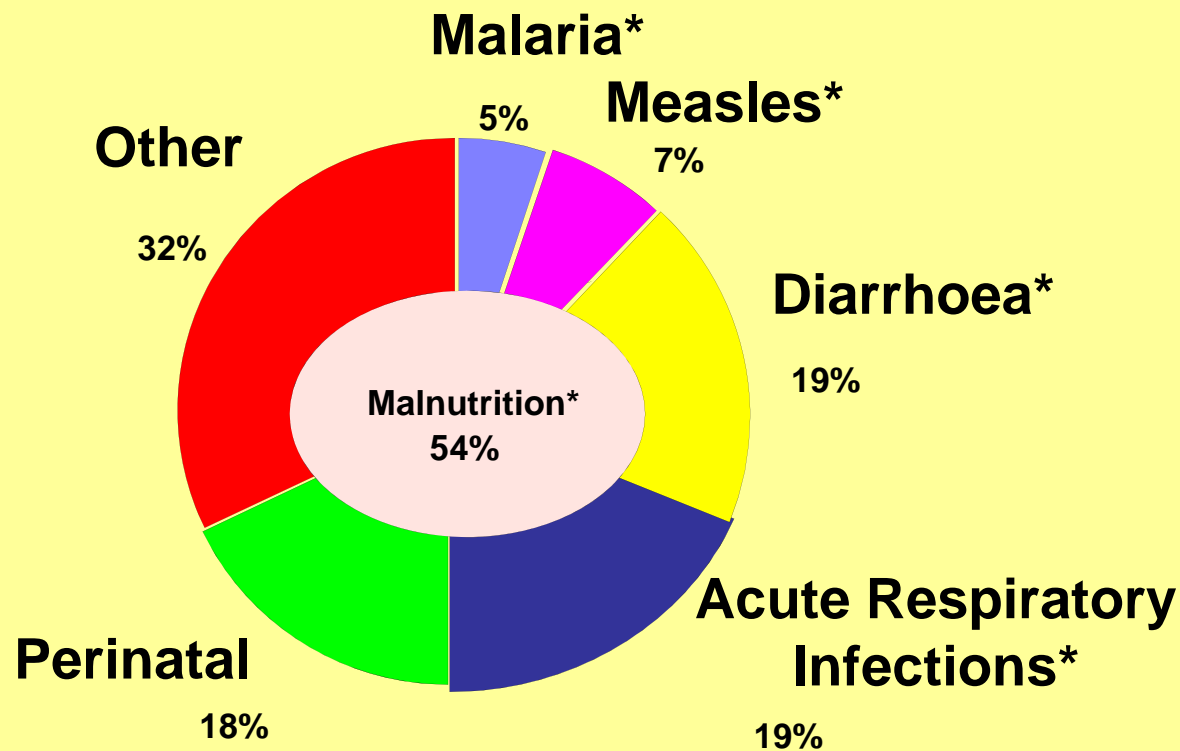
Differences between Generic IMCI and India's IMNCI

Features	Generic IMCI	India's IMNCI
Scope		
Includes birth to 7 d of life (early newborn period)	No	Yes
Target providers		
Facility-based providers such as physicians	Yes	Yes
Community-based providers (auxiliary nurse midwives/ Anganwadi workers)	No	Yes
Training program		
Training time – newborn and young infant	~20% (2 of 11 days)	50% (4 of 8 d)
Sequence of training	First, the child (2 mo-5yr) module, followed by young infant (7 days-2 mo)	First, the newborn and infant (0-2 mo) module, followed by the child (2 mo-5yr)
Training for home visits for postnatal care of newborn	No	Yes
Implementation		

Improving health & nutrition worker skills

- **Guidelines for management of sick newborns and children with serious disease in first referral facilities**
- **Training course for doctors for outpatient management of sick young infants and children**
- **Training course for health and nutrition workers for:**
 - **Management of sick young infants and children**
 - **Home visits for young infants**

Attention to counselling skills to promote exclusive breastfeeding, complementary feeding & micronutrient supplementation is a key strength of IMNCI



* Based on data taken from The Global Burden of Disease 1996, edited by Murray CJL and Lopez AD, and Epidemiologic evidence for a potentiating effect of malnutrition on child mortality, Pelletier DL, Frongillo EA and Habicht JP, AmJ Public Health 1993;83:1130-1133



Home visits for young infants: Objectives

- **Promote & support exclusive breastfeeding**
- **Teach the mother how to keep the young infant warm**
- **Teach the mother to recognize signs of illness for which to seek care**
- **Identify illness at visit and facilitate referral**
- **Give advise on cord care and hand washing**



Home visits for young infants: Schedule

All newborns: 3 visits (within 24 hours of birth, day 3-4 and day 7-10)

**Newborns with low birth weight:
3 more visits on day 14, 21 and 28.**



Colour coded case management strategy

- **PINK CLASSIFICATION:** Child needs inpatient care
- **YELLOW CLASSIFICATION:** Child needs specific treatment, provide it at home (e.g. antibiotics, anti-malarial, ORT)
- **GREEN CLASSIFICATION:** Child needs no medicine, advise home care

<ul style="list-style-type: none"> • Convulsions or • Fast breathing (60 breaths per minute or more) or • Severe chest indrawing or • Nasal flaring or • Grunting or • Bulging fontanelle or • Many skin pustules or a big boil or • If axillary temperature 37.5°C or above (or feels hot to touch) or temperature less than 35.5°C or • Lethargic or unconscious or 	POSSIBLE SERIOUS BACTERIAL INFECTION	<ul style="list-style-type: none"> ➤ Give first dose of intramuscular ampicillin and gentamicin ➤ Treat to prevent low blood sugar. ➤ Warm the young infant by Skin to Skin contact if temperature less than 36.5°C (or feels cold to touch) while arranging referral. ➤ Advise mother how to keep the young infant warm on the way to the hospital. ➤ Refer URGENTLY to hospital
<ul style="list-style-type: none"> • Umbilicus red or draining pus or • Pus discharge from ear or • Skin pustules. 	LOCAL BACTERIAL INFECTION	<ul style="list-style-type: none"> ➤ Give oral cotrimoxazole or amoxicillin for 5 days. ➤ Teach mother to treat local infections at home. ➤ Follow up in 2 days.

<ul style="list-style-type: none"> • Yellow palms and soles or • Age less than 24 hours or • Age 14 days or more. 	SEVERE JAUNDICE	<ul style="list-style-type: none"> ➤ Treat to prevent low blood sugar. ➤ Warm the young infant by Skin to Skin contact if temperature less than 35.5°C (or feels cold to touch) while waiting for referral to be arranged. ➤ Advise mother how to keep the young infant warm on the way to the hospital.
<ul style="list-style-type: none"> • Palms and soles not yellow 	JAUNDICE	<ul style="list-style-type: none"> ➤ Follow up in 2 days ➤ Give home care ➤ Advise the mother when to return immediately

<ul style="list-style-type: none"> • Temperature 35.5-36.4°C or • Feels cold to touch. 	LOW BODY TEMPERATURE	<ul style="list-style-type: none"> ➤ Warm the baby using Skin to Skin contact for 1 hour and REASSESS. ➤ Treat to prevent low blood sugar.
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Other innovations in case assessment

- **Visible severe wasting as indicator for hospital admission rather than weight for age**
- **Palmer pallor to detect anaemia**
- **Breast feeding assessment: attachment and suckling**



Innovations in therapy

- **Single daily dose gentamycin**
- **How to treat at home when hospital admission is not feasible**
- **Counselling the mother to give oral drugs at home**
- **Clear recommendations for follow up**
- **Negotiated feeding counselling**



Strengths of IMNCI training

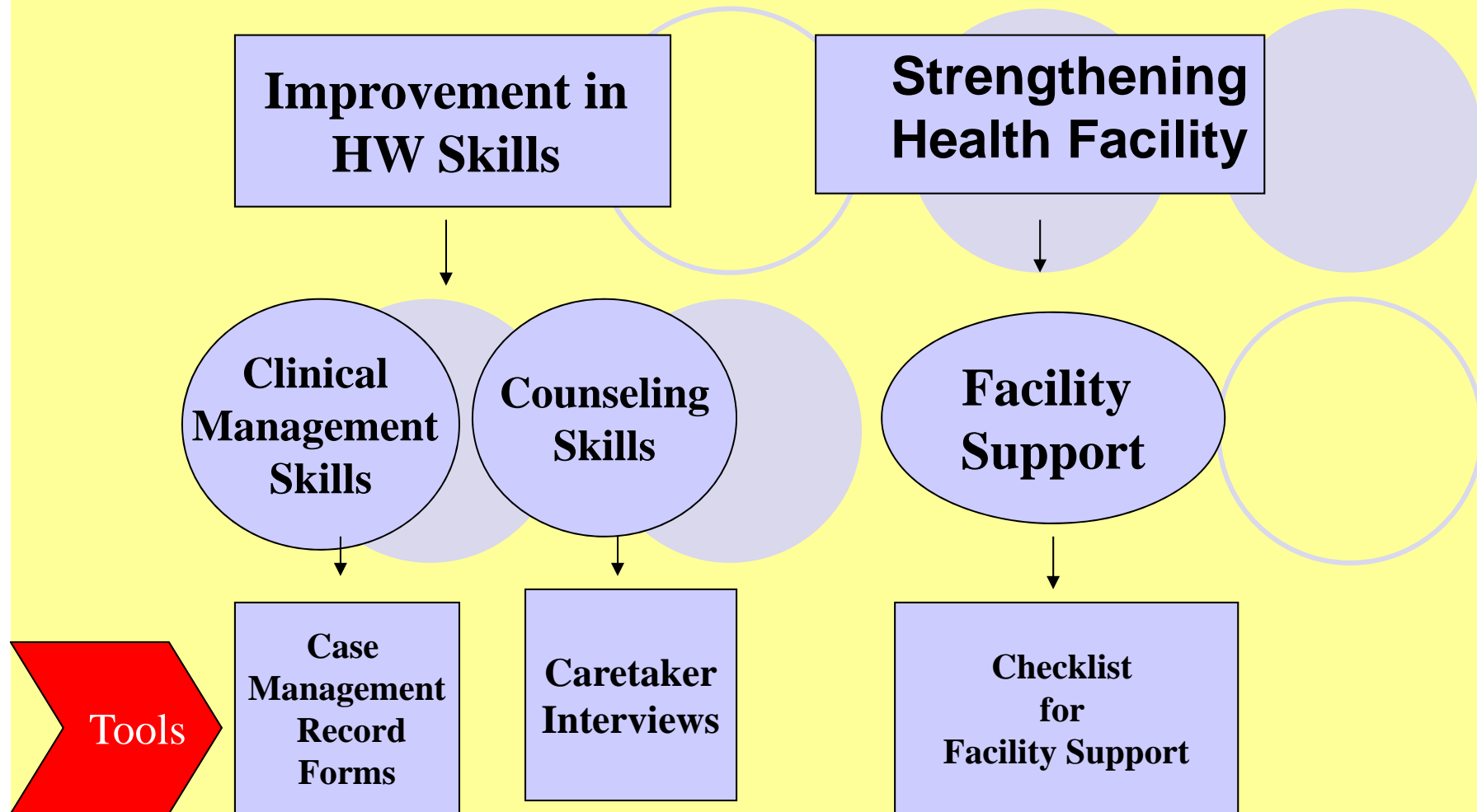
- **Evidence based decision making tree**
- **Feasible to incorporate into both pre-service education & in-service training**
- **Hands-on clinical practice for 50% of training time**
- **Focus on communication & counselling skills**
- **Locally adapted recommendations for infant and young child feeding**

Improving health systems

- District planning and management
- Availability of IMCI drugs
- Quality improvement and supervision at health facilities
- Referral pathways and services

SUPERVISORY VISITS

What needs to be Assessed?





What does IMNCI not provide at all or fully

- Antenatal care
- Skilled birth attendance
- Improved health system management

What can be rapidly added to IMNCI

- Inpatient care modules for first level referral hospitals

Training Material



- Separate training material (training module, chart booklet, photo booklet and video) developed for
 - Physician
 - Health and nutrition workers
- Workers training material translated in Hindi, Marathi, Gujarati and Tamil

Planning...



- First Planning meeting in late 2002
- Districts training load worked out
- District level clinical facilities assessed
- The first training in a district taken as opportunity to orient district administrators on potentials and challenge of IMNCI
- Both of the workers batches planned for implementation on the last day
- Informal follow-up done in Osmanabad

Training ...



- Physician

- 3 batches of TOT conducted in KSCH Delhi
- 2 batches in Vellore district

- Workers

- TOT conducted in Jhalawar, Valsad & Vellore districts
- H&N workers of 1 PHC of Osmanabad & 2 SCs of Shivpuri



**Indicators for monitoring IMNCI
activities need to be incorporated
into current monitoring system**

Baseline Survey is planned

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Challenges

- **Feasibility of the proposed hands-on clinical practice in management of young infants at district level**
- **Feasibility of provision of health care at sub-centre and village level by ANMs and Anganwadi Workers**
- **Making the home-based care of young infants by ANMs and anganwadi workers operational**
- **Improving logistics and supplies**
- **Sustaining what is initiated through indicator based monitoring**