



## Role of Medical Institutions in National Health Programs under National Health Mission

- Dr. Pawan Kumar, Additional Commissioner, MoHFW, GOI





### **Table of Content**



- Overview of NHM
- Role of Medical Colleges:
  - Reproductive, Maternal,
    Neonatal, Child, Adolescent
    Health+Nutrition
  - Immunization
  - Quality assurance
  - HSS
  - Role of Medical Institutions
- Conclusion



## **National Health Mission**

To support the States/UTs towards the provision of universal access to Equitable, Affordable and Quality healthcare services, accountable and responsive to people's needs, with effective inter-sectoral convergent action to address the wider social determinants of health.

To provide technical and financial support to States to strengthen health systems To bring sharper focus on high focus States and rural population, particularly marginalized and vulnerable population Architectural correction through integration of vertical programmes, decentralization and communitization

NHM Objectives and goals are aligned with National Health Policy (NHP) and Sustainable Development Goals (SDG<sub>3</sub>)



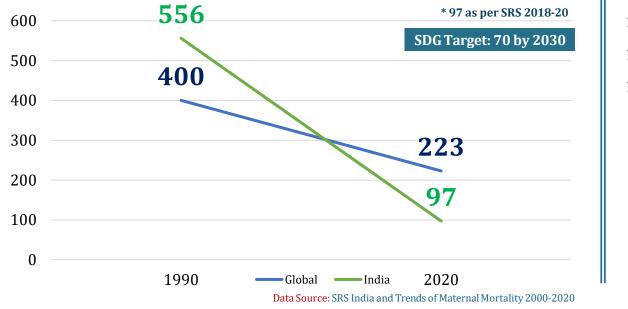
### NHM over the years...



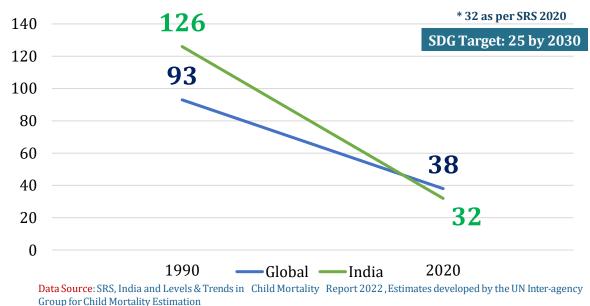


### **Performance of Key Performance Indicators**

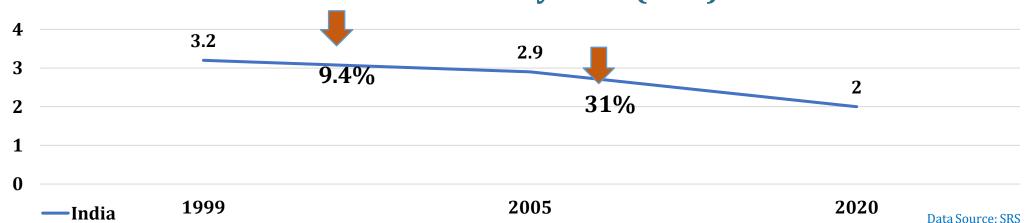
### Maternal Mortality Ratio (MMR)



### **Under 5 Mortality Rate (U5MR)**

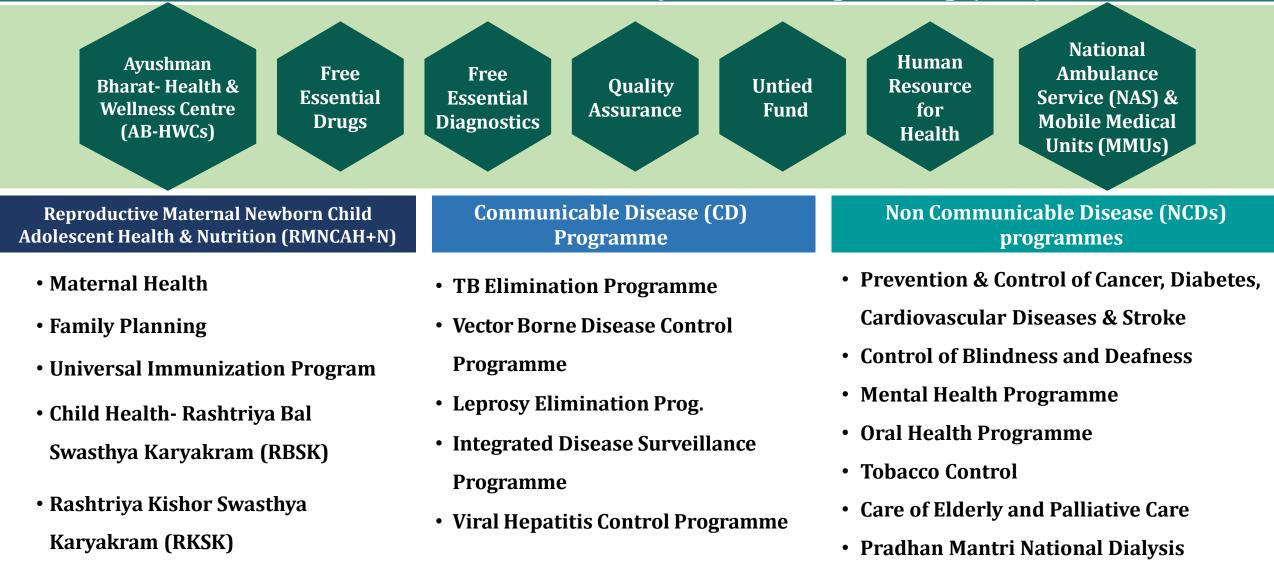


### **Total Fertility Rate (TFR)**



## **Components of National Health Mission (NHM)**

### **NRHM & NUHM- Health System Strengthening (HSS)**



Programme

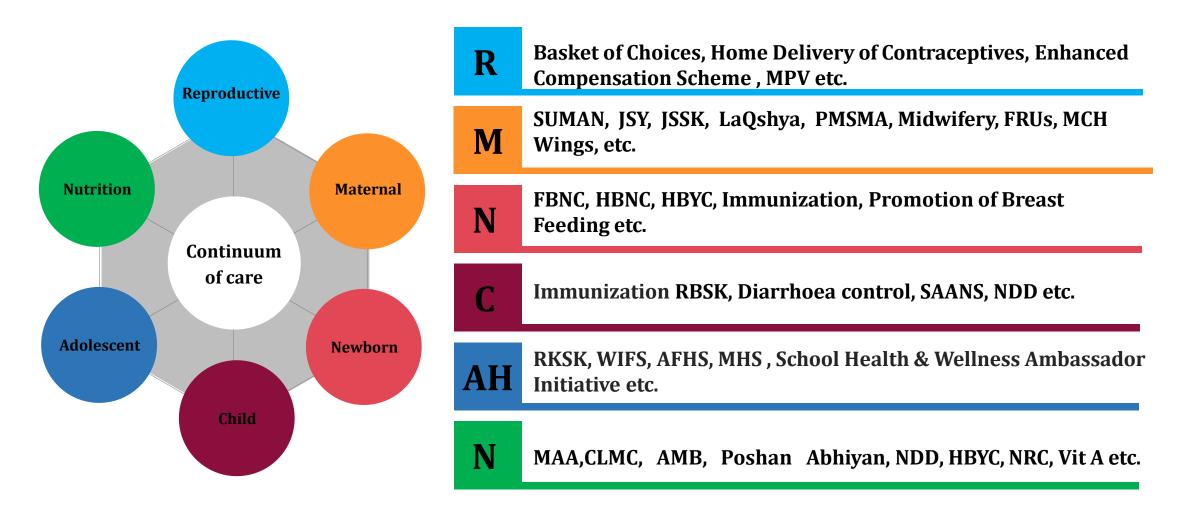
Aspirational District Program



## Reproductive, Maternal, Neonatal, Child, Adolescent Health+ Nutrition

## **Strategic Interventions under RMNCAH+N**

**RMNCAH+N** strategy is built upon the continuum of care concept, encompassing all interventions aimed at **reproductive, maternal, newborn, child, adolescent health and Nutrition** under a broad umbrella, and focusing on the strategic lifecycle approach.



## TRAL HEALTH ARE ON THE STATE

## **Key Interventions under Maternal Health**

Under National Health Mission (NHM), India has made a concerted effort to provide accessible quality maternal

health services and minimize preventable maternal deaths.

Surakshit Matritva Aashwashan (SUMAN)	Janani Suraksha Yojana (JSY)	Janani Shishu Suraksha Karyakram (JSSK)	Pradhan Mantri Surakshit Matritva Abhiyan (PMSMA)
Universal screening for GDM, HIV and Syphilis	Strengthening First Referral Units (FRUs) & Delivery Points (DP)	MCH Wings and Obstetric HDUs/ ICUs	LaQshya – Labor Room & Maternity OT
Capacity Building of Human Resource: Dakshata, CEmONC, LSAS, SBA etc.	Midwifery Initiative	Comprehensive Abortion Care Services (CAC)	Maternal Perinatal and Child Death Surveillance & Response (MPCDSR)

### Janani Shishu Suraksha Karyakram (JSSK)

Entitlement to all pregnant women delivering in public health institutions & all sick infants up to 1 year of age:

- Free and Zero Expense delivery including C-section,
- Free drugs, diagnostics, blood and consumables
- Free diet during stay in facilities
- Free transport home to health institution, between health institutions in case of referral and drop back home
- No user charges
- Free entitlements for sick Infants (up to 1 year of age)

### Achievement:

- More than 1 crore beneficiaries benefitted every year under JSSK.
- Total no. of beneficiaries under JSSK is 1.22 Cr. (Source: HMIS 2022-23)

Service delivery for entitlement provision, capacity building, mentoring, SOPs, evaluation, diagnostic services











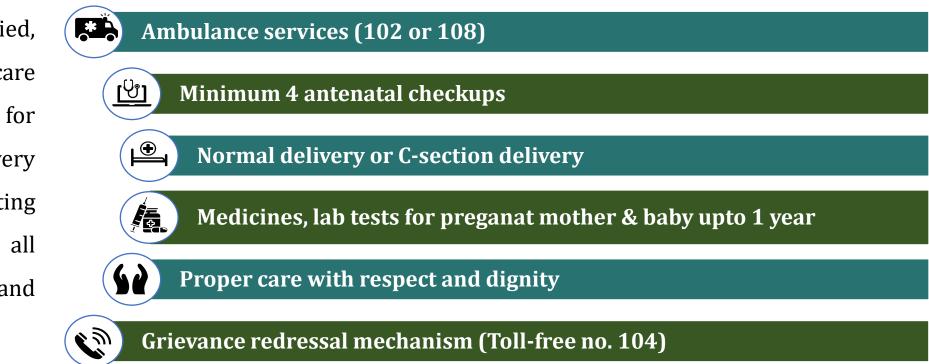


### Surakshit Matritva Aashwasan (SUMAN)

*Initiative for Zero Preventable Maternal and Newborn Deaths* 



 Provides assured, dignified, respectful and quality healthcare at no cost and zero tolerance for denial of services for every woman and newborn visiting public health facilities to end all preventable maternal and newborn deaths.



#### **Role of Medical colleges in SUMAN:**

- Service package of CEmONC level/ medical college hospital lagging behind
- Members of National, State & District level Committees for SUMAN.
- Members of Quality team for NQAS and LaQshya at the State, District and facility level/ peer assessment
- One Centre of Excellence (CoE) Faculty of OBGY and paediatrics department/ one CoE per State
- Mentoring by **national mentors**.

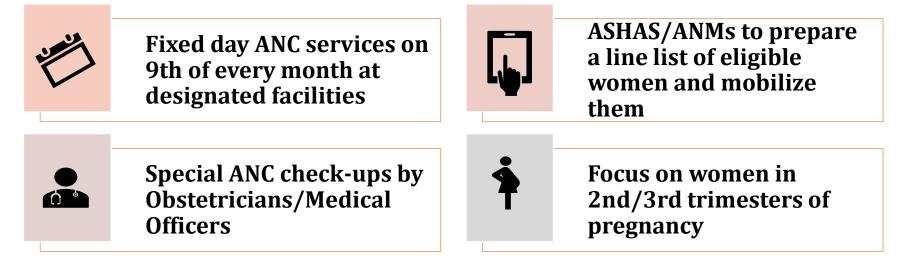


## Pradhan Mantri Surakshit Matritva Abhiyan (PMSMA)



Provides pregnant women a fixed day, free of cost assured and quality antenatal check up by a Specialist/Medical Officer on the 9th day of every month.

**Extended PMSMA-** To ensure quality ANC to pregnant women, especially to high-risk pregnancy (HRP) women and individual HRP tracking by means of financial incentivization for the identified HRP women and accompanying ASHA for extra 3 visits.



**Role of Medical colleges in PMSMA/ E PMSMA** 

- Delivery of services/ 9<sup>th</sup> of every month by obs/gynae/ FOGSI/ Volunteers/ PHC/CHC/ tagging with MC/HRP
- State & District level Committee to review and monitor the progress of PMSMA- Departments of OBGY & PSM.
- Supportive supervision- Departments of Preventive and Social Medicine

## LaQshya – "Labor Room Quality Improvement Initiative"



• Aims at improving the quality of care provided in labor rooms and maternity operation theatres.

Target Areas (190 MC identified)-70 are certified for LaQSHYA

 Government Medical Colleges, District Hospitals, Sub divisional Hospitals, FRU, high case load CHC.

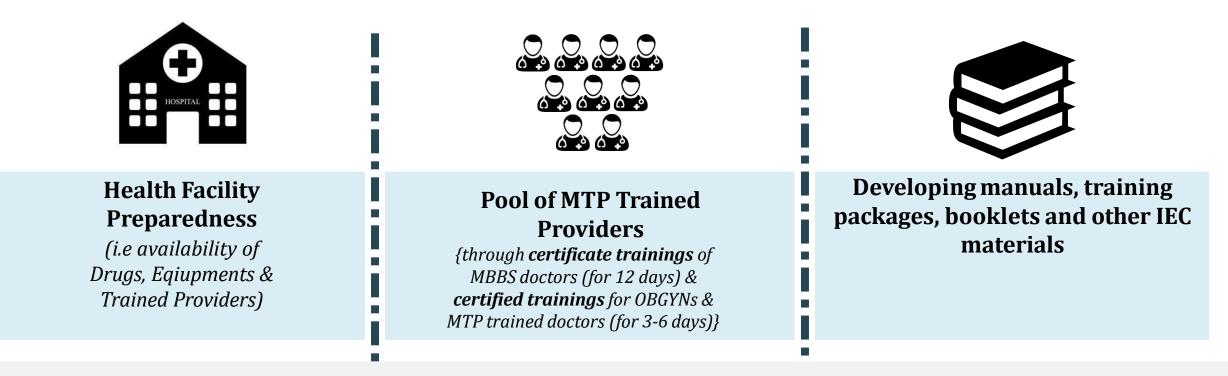
### Role of Medical colleges in LaQshya:



- **Training Healthcare Providers:** In labor room management, obstetric care, neonatal resuscitation, and infection control practices;
- Implementation of Quality Improvement Initiatives: Standardizing protocols, and implementing evidence-based practices
- **Infrastructure and Equipment Upgradation:** Renovating facilities, procuring essential medical equipment and supplies, infection control practices
- **Clinical Audits & Feedback Mechanisms:** To review & monitor the quality of care in labor rooms & maternity OTs.
- Community Engagement & Advocacy
- Centre of Excellence showcasing best practices/ Best practices in Respectful maternity care



### **Comprehensive Abortion Care (CAC)**



### **Role of Medical colleges:**

- Offer USG-guided procedures and a blood storage facility, with OBGs authorized for terminations beyond 24 weeks following approval by the Medical Board for substantial foetal abnormalities.
- 'Model CAC Training and Service Delivery Centres' to exemplify standardized quality norms for CAC training and service delivery.



### **Family Planning**



To achieve population stabilization goals & also promote reproductive health and reduce maternal, infant & child mortality and morbidity.

Quality Assurance Committees at State and District levels	New Contraceptive Choices: Injectable contraceptives (Antara programme) Subdermal Contraceptive Implant (Single Rod) and Centchroman (Chhaya)	Family Planning Logistics Management Information System (FP-LMIS)	<complex-block></complex-block>
Scheme for Home delivery of contraceptives by ASHAs.	National Family Planning Indemnity Scheme (NFPIS)	Enhanced Compensation scheme	Medroxyprogesterone hjection LP. 150mg/ml        Option of the Application Strategy of t
Mission Parivar Vikas	Vasectomy Fortnight	World Population Day campaign	TABLETS I.P. ezy-pill SESINA styl-Pidr mut har and sufference of a second

#### **Role of Medical colleges:**

- Training Healthcare Providers: In family planning counseling, methods, and techniques. (Newer Sub dermal implant, SubQ injection)/ NSV surgeons/MiniLap
- Service Delivery: Family planning clinics or centers where a wide range of contraceptive methods- OCPs, intrauterine devices (IUDs), condoms, sterilization procedures, and emergency contraception can be accessed.
- Community Outreach and Education/ Gynae department/ PSM/ Community medicine/ public health programme
- Policy Advocacy and Collaboration/ SOPs/ Manual development/ Master trainers
- Monitoring and Evaluation



Married Women are using modern contraception in India

### AS A RESULT OF MODERN CONTRACEPTIVE USE, INDIA IS AVERTING

#### 6.1 CRORES Unintended pregnancies





CRORE additional women and girls are using modern contraception compared to 2012





THOUSANDS Maternal deaths

Source - TRACK 20 Estimates





- Aims to holistically develop India's adolescent population aged 10-٠ 19 years, addressing health, nutrition, education, & development needs.
- Covers various aspects beyond sexual and reproductive health, ٠ including nutrition, injuries & violence, NCDs, mental health, and substance misuse.

**Role of Medical colleges:** 

- Training Healthcare Providers: In adolescent-friendly health services (AFHS), address physical, mental, & social health needs of adolescents & provide counseling on sexual and reproductive health, mental health, substance abuse, and nutrition.
- Establishing Adolescent Health Clinics: services like preventive health check-ups, counseling, and referrals/ Out reach clinics
- Promoting Peer Education.
- Community Outreach and Education
- Research and Evaluation.
- Policy Advocacy and Collaboration

#### FACILITY BASED APPROACH



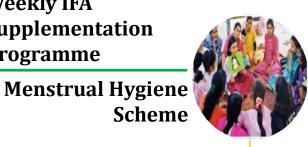
**Adolescent Friendly Health Clinics** 

Provide counselling and clinical services

#### SCHOOL BASED APPROACH



Weekly IFA **Supplementation** Programme



#### **COMMUNITY BASED APPROACH**









**Adolescent Health** Dav



### **Child Health**

The child health programme under NHM comprehensively integrates interventions that improve child survival and addresses factors contributing to infant and under-five mortality.

Newborn & Child Health

**Essential Newborn Care** 

Facility Based Newborn Care-SNCU/NBSU/NBCC

Paediatric Care (Paediatric Ward, HDU)

**HBNC & HBYC** 

Newer Interventions – KMC

**MUSQAN** 

Nutrition related intervention

Nutrition Rehabilitation Centres (NRCs)

IYCF promotion / MAA Program/ CLMCs

Anaemia Mukt Bharat (AMB) and Vitamin A suppl.

Deworming

Pneumonia and diarrhea related intervention

**IMNCI and F-IMNCI** 

IDCF/D2 Campaign

Promotion of ORS and Zinc use by ASHA

**SAANS** (Social awareness & action to neutralize Pneumonia)

Screening at delivery points for birth defects

RBSK

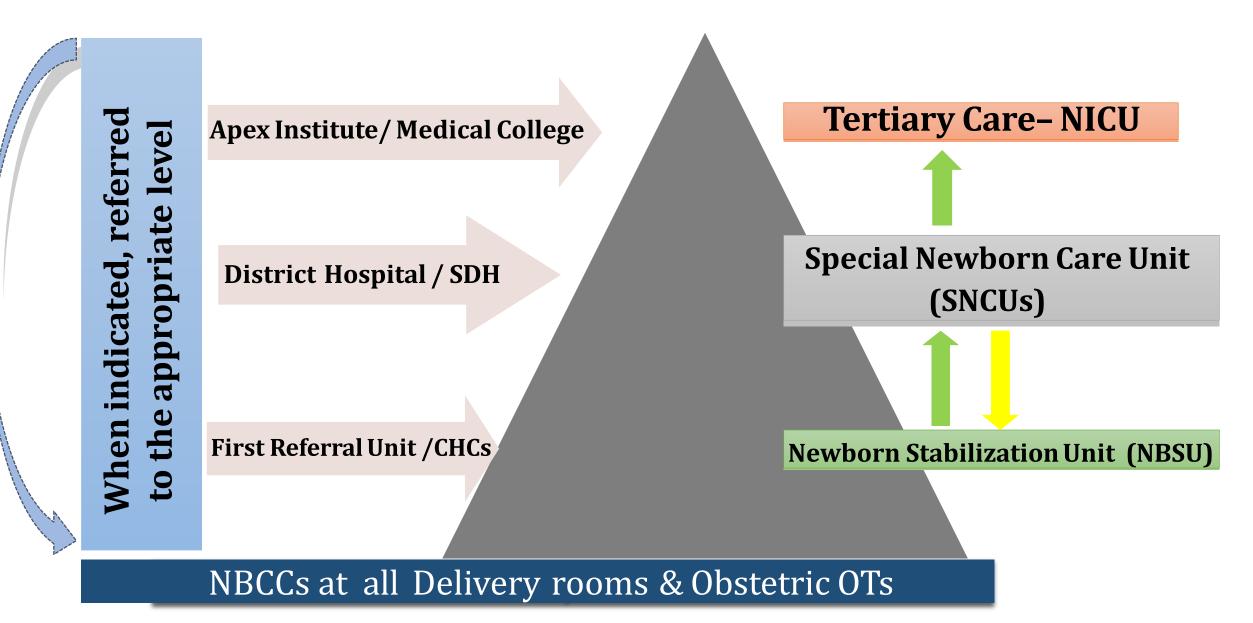
Screening at AWC and Schools for 4 Ds

DEICs establishment

**ECD Call Centre** 

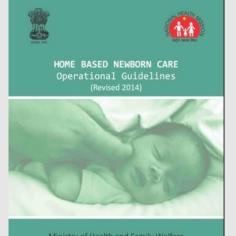
#### **Child Death & Still Birth Reviews**

## Facility Based Newborn Care – A Level Care System





### Home Based Newborn Care (HBNC) & Home Based Care of Young Child (HBYC)



Ministry of Health and Family Welfare Government of India

- Community based newborn care practices through frontline workers (ASHAs) for Early identification of illness and prompt referral
- Counsel care givers, examine the newborn (for feeding, skin, cord or eye infection), weigh the baby, check temperature and respiratory rate, check for signs of illness
- Targets home + institutional deliveries (6 / 7 home visits by ASHAs within 42 days of birth)

- Community based child care practices through frontline workers (ASHAs) as an extension of HBNC Program
- Improve nutrition status, growth and early childhood development of young children, reduce child mortality and morbidity



Joint Initiative of Ministry of Health and Family Welfare & Ministry of Women and Child Development





Involves screening of children from birth to 18 years of age for four **Ds- Defects at birth, Diseases, Deficiencies and Development delays**,

spanning 32 common health conditions for early detection and free treatment and management.

### Screening

- Newborn Screening for defects at birth
- Screening of children at AWCs and in schools

### Referral

#### Early Intervention Centre (DEIC)

at District hospital for confirmation, further assessment and as referral linkage to appropriate health facility

### Management

Free of cost management of children identified with ailment in District Early Intervention Centre and referral at pre-identified tertiary level institutions for surgery

#### **Role of Medical colleges :**

- Screening and Early Detection
- **Referral Services:** For specialized care by pediatricians, specialists, and multidisciplinary teams.
- Treatment and Follow-up Care: Medical interventions, surgeries, rehabilitative services, long-term management of chronic conditions.
- Capacity Building
- Health Education and Counseling
- Research and Innovation
- Policy Support and Advocacy
- Monitoring and Evaluation



- Paediatric Centre of Excellence (P-CoE): Set-up in Medical Colleges to establish linkage with district and subdistrict level facilities and provide hands-on support to strengthen paediatric services. MC function as HUB for supporting and building the capacity, guide and mentor the service providers functional in the SPOKES i.e., DH/SDH/CHC.
- SAANS (Social Action and Awareness to Neutralize Pneumonia Successfully) : To generate awareness around protect, prevent and treatment aspects of Childhood Pneumonia & To enhance early identification and care seeking behaviors among parents and caregivers.
- Sentinel Stillbirth Surveillance System: To provide an understanding of the burden and the circumstances, risk factors and leading determinants resulting in a stillborn baby.
- Hospital based Birth Defect Sentinel Surveillance System is also established in selected medical colleges / hospitals with high load of deliveries, with Head of Departments of Pediatrics / In-charge Neonatology and Head of Departments Obstetrics & Gynecology as Nodal.

#### Externally visible major birth defect(s)

- 1. Neural tube defects including microcephaly
- 2. Oro-facial clefts: Cleft lip/cleft palate
- 3. Talipes equinovarus Club foot
- 4. Limb reduction defects
- 5. Hypospadias
- 6. Exomphalos/Omphalocele
- 7. Gastroschisis
- 8. Imperforate anus

#### **Optional birth defect(s)**

- 1. Down syndrome
- 2. Congenital diaphragmatic hernia
- 3. Congenital heart disease
- 4. Tracheo-esophageal fistula
- 5. Exstrophy of bladder
- 6. Other defects



## Nutrition

Under the RMNCAH+N strategy initiatives are also undertaken to address various nutritional deficiencies and anaemia among women and children.

#### **Key Programs**

#### 1. Anaemia Mukt Bharat (AMB):

- Aims to reduce anaemia prevalence across age groups.
- Strategy includes interventions like iron folic acid supplementation, deworming, and behavior change campaigns.

#### 2. National Deworming Day (NDD):

• Administration of albendazole tablets biannually to children and adolescents to combat helminth infestation.

#### 3. Mother's Absolute Affection (MAA):

- Focuses on promoting optimal breastfeeding and infant feeding practices.
- Implemented through health worker training and communication campaigns.

#### 4. Lactation Management Centers (LMC):

• Provides support for lactation management, ensuring safe milk for sick, preterm, and low birth weight babies.

#### 5. Nutrition Rehabilitation Centers (NRCs):

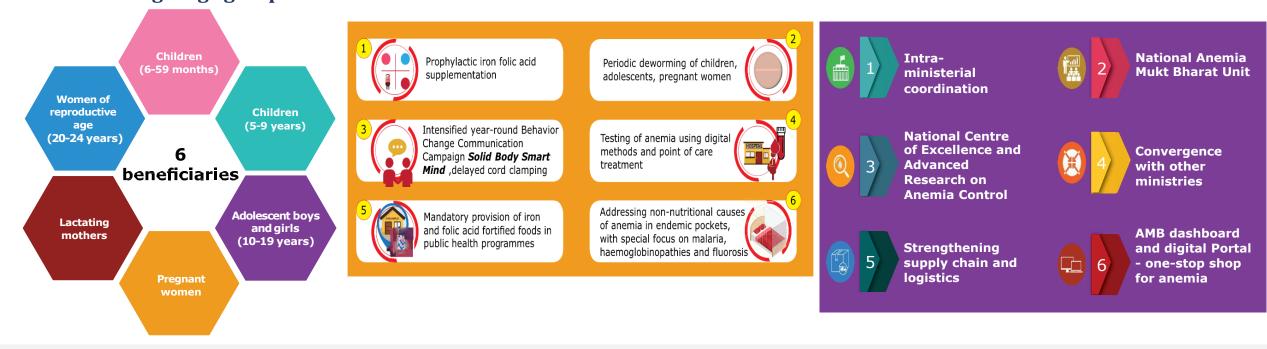
- Offers medical treatment and nutritional support to under-five children with severe acute malnutrition.
- Emphasizes timely and appropriate feeding, caregiver training, and counselling.



## Anaemic Mukt Bharat (AMB)



Anemia Mukt Bharat (AMB) strategy, launched in 2018 to reduce anaemia prevalence (due to nutritional and non-nutritional causes) Six target age groups Six interventions Six Institutional Mechanisms

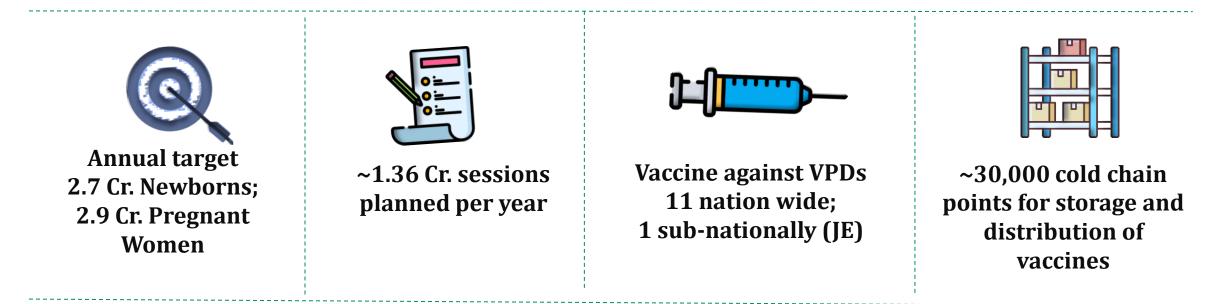


#### Role of Medical colleges:

- AIIMS New Delhi hosts the National Centre of Excellence and Advanced Research on Anemia Control (NCEAR-A), providing technical expertise, conducting research, serving as a national-level reference laboratory for anemia screening and diagnosis, facilitating program reviews and capacity building, supporting supply chain monitoring, and conducting rapid assessments and research.
- At the state level, institutions can be designated as **State Centres for Excellence and Advanced Research for Anemia Control (SCEAR-A)**, aiding in training, monitoring, and acting as apex reference laboratories for anemia screening and diagnosis.

### **Overview of Universal Immunization Program (UIP)**

- One of the largest public health programs.
- Routine Immunization Programme in India started in 1978 as the Expanded Programme of Immunization (EPI)
- Programme gained momentum and was expanded as Universal Immunization Programme (UIP) in 1985



Make in India: Largest vaccine manufacturing capacity in the world

On 27<sup>th</sup> March 2014, South-East Asia Region of WHO, including India, certified POLIO-FREE

On 14<sup>th</sup> July 2016, WHO certified India for eliminating Maternal and Neonatal Tetanus

### UIP Roadmap

	2023	3 <sup>rd</sup> dose of f-IPV	
Pneumococcal Conjugate Vaccine scaled up nationwide	2021		
	2020	COVID 19 vaccination programme	
RVV scale up as per 100 days agenda	2019	Tetanus and adult diphtheria vaccine	e Six new vaccines
	2017	MR, PCV, Adult JE	added under UIP in last 5 years
tOPV to bOPV switc	h 2016	Rotavirus vaccine	
	2015-16	Inactivated Polio Vaccine	
India and South East Asia Region certified POLIO-	2014		
FREE	2042		
JE 2 <sup>nd</sup> dose	2013		
	2011-15	Pentavalent vaccine	
			<b>Till 2014</b>
Open vial policy	2011		BCG
Measles 2 <sup>nd</sup> dose	2010		DPT
Measies 2 dose	2010		Measles
	2006	JE vaccine	Hepatitis B
	2002	Hep. B vaccine	OPV
	2002	nep. b vacenie	JE
Vaccine Vial Monitor	1997		
Polio NID	1995		
	1985	4 Vaccines against 6 VPDs- Measles, DI	PT, TB, Polio

### Vaccine-Preventable Disease Surveillance

- Managed by National Public Health Support Network (NPSN)
  - Acute Flaccid Paralysis (AFP) surveillance for Polio
  - Fever and Rash surveillance for Measles and Rubella
  - DPT surveillance for Diphtheria, Pertussis and Tetanus
  - Typhoid (To be started)
  - HPV
- Managed by National Centre for Vector Borne Disease Control (NCVBDC)
  - Japanese Encephalitis Disease Surveillance .
- Managed by **ICMR** 
  - Congenital Rubella Syndrome (CRS) Surveillance
  - Pneumo-surveillance

Without adequate surveillance, elimination of vaccine-preventable diseases cannot be achieved and sustained.

### Adverse Event Following Immunization (AEFI)

It is any untoward medical occurrence following immunization (Mild, Serious and Severe), which does not necessarily have a causal relationship with the usage of the vaccine.

#### **Reporting of AEFI**

#### SAFEVAC: Online portal.

- For reporting of all AEFI (Minor, Severe and Serious)
- Data entry and uploading of forms (hospital records, post mortem reports at the district level and causality assessment reports state level)

#### **Signal Review Panel: At National Level**

- For detecting signals following vaccinations
- Members trained on analysing potential signals and giving appropriate recommendations.

#### National Quality Assurance Standards for AEFI Surveillance Programme

• QMS-AEFI is being implemented in 23 states/UTs

#### **Revised AEFI Surveillance & Response Operational Guidelines- 2024**

- Release of AEFI Surveillance & Response Operational Guidelines 2024
- National Dissemination workshop conducted on revised AEFI Surveillance & Response Operational Guidelines -2024



## **Universal Immunization Program (UIP)**





**Role of Medical colleges in UIP:** 

- Provision of immunization services: Dedicated vaccination rooms with provision of daily vaccination services/ MIC
- Capacity Building/ NID/S-NID/ Monitoring
- AEFI surveillance and Management:
  - (National/ State) AEFI Causality Assessment committee
  - Clinical management of AEFIs
  - Adverse Drug Reaction Monitoring Centers: Pharmacovigilance Programme of India (PvPI).
  - Clinical expertise in AEFI Surveillance
- **Review Mechanism:** Mandatory representation in the **STFIs and DTFIs** for review and strategy discussions. Participation as assessors during the Effective Vaccine Management (EVM) assessment carried out nationally.
- VPD Surveillance/ AFP/ MR elimination/ MR Surveillance/ CRS

### **National COVID-19 Vaccination Programme**





### **Overview of Quality Initiatives under NHM**





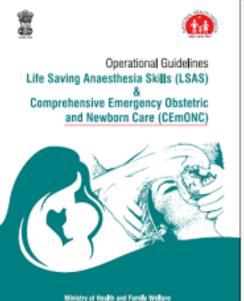
## **Other HSS Initiatives**



**Indian Public Health Standards (IPHS):** To improve the quality of services and provide a uniform benchmark to assess the functionality of public health facilities, a set of standards known as the IPHS were first developed in 2007 - revised in 2012 and then 2022, to provide guidance on the infrastructural, HR, drugs, diagnostics, equipment, quality & governance requirements for delivering health services.

Lifesaving Anaesthesia skills(LSAS): Training program rolled out in 2003 to train MBBS doctors in providing comprehensive anaesthetic obstetric care services to provide with necessary skills & competencies to manage the cases requiring lifesaving emergency obstetric care at the FRUs.

**Comprehensive Emergency Obstetric Care (CEmOC):** Training program rolled out in 2003 to train MBBS doctors in providing comprehensive obstetric care services, to enable to manage complications and also undertake C-sections for saving lives.



Ministry of Health and Family Welfare Covernment of Inda



## **Role of MCs in NUHM**

#### Centre of Excellence in Urban Health:

Hubs for technical guidance and knowledge enhancement in urban health under the National Urban Health Mission (NUHM), serving as centres of excellence for skill training, research, and health planning.

#### Enhanced Healthcare Services Provision:

Urban Health Training Centres (UHTCs) within medical colleges, following NMC regulations, broaden their services to match those of Urban Primary Health Centres (UPHCs), thereby improving healthcare access and standards.

#### **Quality Training Hub:**

Utilizing UHTCs as training sites, medical colleges can deliver highquality, skill-based training for diverse healthcare professionals under NUHM, benefiting students and urban communities alike.

#### **Expanded Referral Network:**

Medical colleges function as referral centres for various health programs under NUHM, extending beyond existing initiatives like the Revised National Tuberculosis Control Program (RNTCP) to encompass other urban health endeavours.

#### Research and Innovation Leadership:

Medical colleges lead research endeavours, innovative strategies, and implementation studies in urban healthcare, potentially receiving support under NUHM through the Program Implementation Plan (PIP) approval process.



## **Thematic Areas for Support**

#### Education

• Impart **medical education to capacitate** healthcare professionals.

#### **Evidence Generation & Research**

• Research, generate evidence for policy decisions, Operational research and Impact assessment

#### **Service Delivery**

• Delivering healthcare to underserved populations, outreach services

#### **Community Engagement**

• Engage with local communities to raise awareness, Provide health education

#### **Policy Support and Advocacy**

• Provide expert input and technical assistance

#### **Monitoring, Evaluation and Learning**

• Monitoring & Evaluation of the nation health programs by undertaking field visits, mentoring the health workforce and providing feedback to the public health managers.

#### Medical Colleges are part of various expert and advisory committees such as:

- Empowered Program Committee- NHM
- Medical Education Reform Committee
- National Health Policy Advisory Committee
- Hospital Accreditation Advisory Committee
- Health Technology Assessment Advisory Committee
- National Technical Advisory Group on Immunization
- National Mental Health Advisory Committee
- National Tobacco Control Advisory Committee
- National Vaccine Policy Drafting Committee



# Thank you