Disease for Control Elimination & Eradication



CONTROL

ELIMINATION

ERADICATION

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CONTROL

 Reduction in the incidence, prevalence, morbidity or mortality of an infectious disease to a locally acceptable level

Dowdle 1998

Routine intervention measures essential

ELIMINATION

- Elimination as reduction to zero of the incidence of disease or infection in a defined geographical area
- Continued intervention measure are needed to prevent re-emergence & re-establishment of transmission of disease.

ERADICATION

- Permanent reduction to 'zero' of the worldwide incidence of infection
- Routine intervention measure are no longer needed once interruption of transmission has been certified worldwide

SMALL POX

- World has eradicated only one disease till date
- Last case reported in Somalia...26th Oct 1977.
- 2 years before in India, Bihar .. 17th May1975
- Declared eradicated in 8th May 1980
- India declared Small pox free in July 1977.



3 diseases planning for eradication in world O Poliomyelitis O Measles O Guinea worm infection

DISEASES ERADICTED FROM INDIA

- ✓ Small Pox
- ✓ Guinea worm
- ✓ Yaws /Endemic treponematosis
- ✓ Poliomyeliteis

Guinea worm

- Infection spread via stagnant water
- In India eradication project launched in 1983-84
- Two third of cases was reported in MP& Rajasthan
- Last case reported in 1996
- India declared disease free in 2000, by WHO



Yaws

- Bacterial infection of skin, bone & joints
- 1st country to be eradicated
- Between 1952-64, 0.2 million death occurred in Odisha, MP, Maharashtra, Andhara, TN
- Eradication program launched...1996-97
- Last cases in India...Oct 2003 in tribal groups
- Elimination...Sept 2006
- Eradication..July 2016



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Poliomyelitis

- Polio virus2/wild poliovirus has been eliminated in India
- Polio eradication campaign ... 1995

by the help of live polio vaccine

- Efforts to eradicate global polio began at...1998
- Globally, polio cases reduced by 99%
- Last case in India...13th Jan 2011
- Polio eradicated In India...20th Sep 2016



shoulders

Curve in spine

Uneven hips



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Yellow fever

- Transmitted through mosquito
- Two types based on clinical &etiological factor...Urban and Jungle
- Vaccination avilable
- Not present in India



Disease eliminated from India

- Below is the list of diseases which India officially declared itself free from all mentioned
- ✓ Small pox
- ✓ Guinea worm
- ✓ Yaws
- ✓ Polio
- 5.Leprosy
- 6. Tetanus
- 7. Avian influenza

Leprosy

- Infectious disease causing skin lesions and nerve damage
- Important cause of global chronic neurological disability
- National leprosy control program launched in 1955
- Elimination criteria for leprosy-less than one case of leprosy per 10,000 population
- Elimination at National level **Dec 2005**
- 2016, ICMR did sample study, almost same as of 2005
- Eradication program-'SPARSH'Leprosy awareness campaign...launched on 30th Jan 2017 WORLD LEPROSY DAY



Tetanus (Maternal & Neonatal)

- Increased coverage of maternal tetanus immunization (TT)
- Aug2015, eliminated in India
- 14th July 2016 'Janani Suraksha Yogana'

encouraged women to give birth in a health facility



India Eliminates Maternal and Neonatal Tetanus

WHO confirms neonatal tetanus reduced to less than 1 case/1000 live births in all 675 districts

Avian Influenza

Outbreak in India...Oct2016 – Feb 17
Many states, including Kerala (allapuza & kottayam)....H5N1 & H5N8

India declared itself free from Avian influenza (H5N1 and H5N8) from June 6th 2017....notified to WHO for animal health

AVIAN INFLUENZA : BIRDS TO HUMANS



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India National Centre for Disease Control

Assist states with infectious disease control through assistance multidisciplinary outbreak investigation, communicable disease surveillance, networking of public health lab and capacity building.

National Control Program



- National program for family planning & primary healthcare
- National vector born disease control program
- Acute respiratory infection program
- Expanded program for immunization
- National malaria control program
- National diarrheal control program
- National tuberculosis control program

National Control Program

- National nutritional program
- Women health project
- National maternal, neonatal & child health program
- National program for prevention & control of hepatitis
- National program for prevention & control of blindness
- National program on non-communicable disease
- National program on mental health & injuries
- National dengue fever control program

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Thank you

