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UNIT-3

NATIONAL HEALTH PROGRAMME

Queus 9

Que-9 what we national Health Programs?

Introduction: The National Health programme was daunched by the Central Government for the fallowing purposes:

- · Communicable disease eradication.
- · Control of population and improving sured health.
- · Riking the standards of nutrition.
- · Improvement of environmental sanitation.
- Techinal and material support has been offered by numerous international organizations such as WHO, UNICEF and UNFPA to implement these programms.

#### HEALTHCARE SERVICES

- · Healthcare programmes are meant to enhance the health status of the Community.
- In terms of morbiolity reduction, the targets to be reached have been fixed.
- · An increase in life expectancy.
- · Nutritional status improvements.
- · Decrease in the state of population growth.

#### HEALTHCARE SYSTEMS

- · Healthcaue system is designed for the provision of healthcaue services.
- . It is depresented in India by 5 major sectors

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or companies that vary from each other through the application of health technology and it include: I

Public health sector, private sector, indigenous systems of medicine, valuntary health agencies, national health programmes.

## Objectives of programme

- · Achieving acceptable levels of good health in the Country's general population.
- · Ensuring more equal acress to healthcase through the Country's social and regional scope.
- · To regulate the import, manufacture, distribution by licensing of drugs and Cosmetics.
- · Distribution, manufacturing and selling of drugs by eligible persons.

Que-10 com'te note on HIVAIDS Control programme.

(D) (HIV AND AIDS CONTROL PROBRAMME)

The National AIDS Control Programme (NACP) was Jaunched in 1907.

NACP I - 1992-1997 V

NACP II - 1999 - 2004 V

NACP III - 2006 - 2011

NACP IV - 2012 - 2017 V

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## Goals and objectives

## objective 1:-

Reduce new infections by 50%. (2007 Baseline of NACP-III).

### Objective 2:

Comprehensive case, support and treatmen all persons living with HIV/AIDS

## 3 by 5 Initiative

- · People living with HIV/AIDS in world: 40 million
- · 3 by 5 target: Announced by WHO and UNAIDS on December 1, 2003
- Interein Target: Providing anti-retroviral treatment (ART) to '3 million people living with HIV/AIDS', in developing countries ( low & middle income) by end of 2005
- · Ultimate goal: Universal acress to ART to anyone who needs it.

## Focus areas: (Five Pillars)

- Simplified Standard tools to deliver (ART).
- A new service to ensure effective, reliable supply of medicines and diagnostics.
- Dissemination and application of new knowledge and successful strategy.

  \_ Ungent, sustained support to countries.
- whobat leadership, backed by strong partnership.

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# HIV Screening in NACP

Tests for Screening of HIV: -

- ELISA (E) Test:
- RAPID (R) Test.
- SIMPLE (S)

Test for Confirmatory diagnosis of HIV: Western Blot Assay.

# Screening Strategy of HIV

Strategy I: one out of three screening tests (E/R/s) are used -

- Done for screening every blood unit before transfusion.
- Does not recommend its use for diagnosis of HIV in a person.

Strategy II 5- Two out of three screening tests (E/R/S) one used.

- Done for screening person who is symptomatic with any one of ATDS defining Luness (NACO guidelines).

stockedy III: All three screening tests (E/R/S)

- Done for screening person who is asymptomatic.

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## ELISA Test

First screening test commonly employed for HIV: - it has a high sensitivity

## HIV Diagnosis Tests

## 1) Western Blot Assay (Immunoblot):

It is a method to detect a specific protein in a given sample of tissue homogenate or extract:

- Used as a confirmatory test for HIV (NACP) India.

   Based on detecting 5- vival core protein (p24) and envelope glycoprotein (gpui)

### mechanism of western Blot Assay

- get electrophoresis to separate native or denatured profeins.
- proteins transfer to a membrane (nitrocellulose OR BADE)
- Probe detection using autiboolies specific to the tought protein.

# p24 Antigen Test

Detect the presence of the p24 protein of HIV.

# 3) Nucleic - acid - based test

Amplify and detect a 142-base target sequence located in a highly conserved suggion of the HIV gag gene.

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## @ RT- PCR test :-

Viral RNA is extracted and is treated with severese transcriptase is per applied is Amplified segments bind to specific obligonucleotides is made visible with a probe bound to an enzyme.

Blasma centrifuged and opened to release its RNA: Special objanual eatides are added to fasten RNA to wall; amplify the signals objanual eatides bound to an enzyme added;

the enzyme action causes a colour reaction which allows quantification of the viral RNA in the oxiginal sample.

## Targeted Interventions in NACP

- · Basic purpose: To reduce transmission of HIV amongst most vulnerable populations.
- Approach: Combines a comprehensive and integrated per approach to vulnerable segments of population.
  - · main activities:
    - Betavious change.
    - Communication
    - Treatment of STD.
    - Create enabling environment to facilitate behavior change.

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## Segments of population covered

- · Sex workers.
- · Injecting Doug were
- · Truckers.
- · Homosexual men.
- · migrant laboriers.
- · Street children.

# Opt-in/opt-out Testing

- patient is required to actively give permission before it can occur.
- opt-out testing: means performing an HIV test after motifying the patient that the test is mormally performed, but that the patient may elect to alectine or defer testing: assent is then assumed unless the patient declines testing.
- palicies in health case settings.
- testing state than opt-in testing (25-83%)
- -> It does not climinate the need for informed

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AND A STATE OF THE SAME OF THE STATE OF THE

# LAC (LINK ART Centre) L'Anti-retronial therapy.

- · Providing (ARV) drugs to patients on ART
- · monitoring of patients on ART
- · Treatment of minor opportunistic Infections.
- · Identification and management of side-effects
- · Reinforcement of alreig adherence on every whit.

# LAC PLUS (LAC services PLBS pre-ART management)

- · Help i'n integrating HIV care i'uto general health System.
- · Reduce loss of patients blue ICTC and comp support and treatment (CST) services.

## ALL IN Jultiative

## Chlobal initiative to End Adalescent AIDS

• Description: - A powtenewhip blow UNAIDS and UNICEF to reach adolescents with HIV Services and to end the AIDS epidemic by 2030.

# four key action areas: I

- · Adolscents as leadlers and actors of social change.
- · Improving data collection.
- · Encowaging innovative approaches to reach adolecents.
- · placing adolescents HIV firmly on political agenda,

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Fast track tauget to be achieved by 2020:7

- · Reducing new HIV infections by at least 75%.)
- · Reducing AIDS reducted death by 65%.
- · Achieving zero discrimination.

main goals: 7

· Ending adolexent AIDS by 2030.

· Ending the global aibls epidemic as a public health threat.

Que-11 Had write Note on National T.B Control Programme.

NATIONAL TUBERCULOSIS CONTROL PROGRAMME

- The infectious disease commonly caused by the bacterium Mycobacterium Tuberculosis.
- TB affects the lungs mainly and coused pulmonary tuberculosis.
- Active tuberculosis diagnosis is based on chest x-says as well as on microscopic examination and body filmid culture.
- more than lomillion cases of active TB occurred in 2016, contributing to 1.3 million deaths.
- In developed countries, more than as % of deaths occurred, and more than so % occurred in India, china, I'ndonesia, Pakistan, and the phillipines.

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National Health programme for Tuberculosis and its founctioning.

- In 1962, the National Tubercules is Programme (NTP) for TB control in India was initiated.
- Health education targeting the community and general practitioners is also stressed by the NTP.

To this erd, Booklets, pamphlets, radio, TV and Newspaper ads are used.

- Founded in 1953 in Bangalore, the National i'w titute of Tuberculosis has been i'nvalved i'n research on epidemiological, socialogical and organizational aspects, along with programme monitoring.
- The Revised National Tuberculosis Control Programme (RNTCP) has undertaken early and firm steps towards its started objective of universal access to early quality diagnosis and quality TB treatment for all TB patients.

## National Strategic plan for 2012-2017

- The 2012-2017, National Strategic plan (NSP) was included in the Country's 12th five year plan.
- "universal access for quality care and treatment for all TB patients in the Nation" with an aim of "Reaching the unreached" was the theme of the NSP 2012-2017.
- . The key focus was on the early and full

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diagnosis of all community based TB cases, including drug-resistant TB and HIV associated TB, with greatest private sector participation in improving treatment for all patients.

# National Strategic plan for 2017-2025 for T.B. elimination in india.

- Building on the progress and Jewing of the wat NSP, the National Strategic plan 2017-2025 enrapsulates the bold and imaginative steps needed to exactivate TB in Inchia by 2030.
- It is built in line with other policies and global initiatives in health sector, such as the 2015 draught national health policy, the End TB strategy of the compated WHO, and the UN Sustainable Development Choals.

# Improving TB Survelliance by Transitioning to case Based, web Based Recording and Reporting (NIKSHAY)

- The information Communication technology application was Jauncheol on 15th may 2012, By National informatics centre and central TB division.
- The data entry of individual TB cases is being done at the block level data entry operator of NHM.
- The System has been extended to include drug resistant TB cases, online referred and transfer of patients.

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#### TB Co-morbidities

- TB and Dibetes: The Julik of TB among people with diabetes is 2-3 times higher than among those without diabetes.
- Diabetes can worsen the clinical course of the , and TB can worsen glycaemic control in people with diabetes.
- of TB 2-3 fold, and is associated with poor TB treatment results.
- · High Smoking prevalence in the population is an important Contributor to high TB Builden.

## Objectives of TB control programme.

- · To cure the TB patients
- · To prevent death from, or late effects of, active TB.
- To provide facilities for activities in training, teaching and viesewich.
- To serve as an open institution for the prevention, Control and treatment of TB and allied diseases in the siegion.
- · To prevent the development of drug resistance.
- · To reduce the transmission of TB to others.
- · To have the country's TB swiveillance System developed.
- of transmission of TB.

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## Outcomes of programme

> Treatment success was achieved in (01%) of new-smear-positive patients,

82% of new smeat - Negative partients,

89% of patients with extra-pulmonary TB,

70% of see-treatment patients.

Conclusion: The RNTCP has successfully treated copproximately 80% of patients in 20 districts of 15 states of Inolia.

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Que-9 write a note on National Leprosy control programme.

[NATIONAL LEPROSY CONTROL PROGRAMME]

National Control Programme for Lepusy and its

- The national deprosy prevention programme of ministry of Health and family welfare of the hovernment of India's is a Centrally funded Health Scheme.
- Programme is headed by Deputy Health Services Director (Leprosy) under government Of India.
- The programmes are also supported by the World Health Organization as a partner in May 1991.
- The world Health assembly adopted a resolution to exadicate global leprosy as a public Health issue by 2000.

Leprosy - it is a chronic infectious disease that is pri transmitted primarrily by patients who are infected.

- M. Leprae primarily affects the peripheral nerves , the partial or absolute loss of the feeling loss of the skin in affected regions, the presence of thickened nerves and the presence of acid-sapid backer in the skin or rasal smears.

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## National Leprosy Programme National Leprosy control

• In 1955, programme is launched.

- In 1983, launched Mational Leprosy eliminated programme and induced multiple Drug therapy.
- In 1993-2000 World Bank supported National Leprosy Eliminated program -1
- In 2001-2004 World Bank Supported NLEP-II.
- In January, 2005 NLEP Continued with the funds provided by Government of India funds and partners.

# Objectives of National Leprosy Programme

- To achieve elimination of Leprosy at national level by the end of the project.
- To accomplish integration of Leprosy services with general Health Services in the 27 low endemic states.
  - To proceed with integration of Services as rapidly as possible in the 8 high endemic states.
  - · Edimination of Leprosy.
  - · Strengthen Disability prevention and medical rehabilitation of persons affected by Lepresy.
  - Reduction in the level of Stigma associated with Leprosy.

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## Outcomes of National Leprosy programme

- 1 Increase public awareness about Leprosy.
- Delf-supports.
- 3) The eastblishment of a simplified Information System (SIS) for NLEP suitable for officials of the General Health Service helped to streamline the programm's data generalization generation, supporting and tracking.
- (4) The Leprosy Systems moved from the east to Centralized Care across the main Health Services Centres while vertically operating the programme.

  This has improved the Service's accessibility on all working days for people Closer to their Home.
- (3) Educate about leprosy and provibling the patient, family and Community members with health education.

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QUP-12 woite Note on Pulse Palio Programme.

## PULSE POLIO PROGRAMME

Mational Programme of Pulse Palio and it's functioning.

- Pulse Palio Programme is dannched in 1995, in India.
- · It is done toute each year.
- National Immunization Day is widely Known as the Immunization schedule for pulse polio.
- e children aged o-s years are provided with palio drops each year dweling national and sub-national immunization programmes.
- During each National Immunization Day (NID), approximately 172 million Childrens are immunized.
- on February 24, 2012, the world Health organization removed the name of the Country (India) from the list of countries with active transmission of endemic wild polio viruses.

## Pripriple ofor Palio Elimination

Pallo is one of the few diseases that can be eliminated because:

- 1) It only affects humans and there aup no animal reservoirs.
- @ The virus is only able to live in the

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atmosphere for a very short period.

3) There is a safe, Inexpensive vaccine.

# National programme of Pulse Palio and ils functioning

- 1995, with an estimated 50,000 cases of polio anually.
- (2) Case based palio Surveillance began in 1997 with funding from the National Monitoring programme for the Elentificational of palio Virus Transmission.
- 3) The last treatment for wild virus type 2 was recorded in inclub in 1999.
- (9) In 2005, India was the first country to use a monovalent (type-I) vaccine. and implement a vibar bivalent vaccine in 2010.

## Functioning

- maintenance of Community immunity each year by high quality national and Sub-national Pollio rounds
- Develop Environmental observation to detect the transmission of palio virus.
- 3 Released guidlines for pollo vaccination in march 2014

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- Tradia Switched from Trivalent Oral Polio Vaccine (Topy) to the Bivalent Oral Polio Vaccine (Bopy) on April 25, 2016.
- 5 Identifying missing children from Iromunization Process.
- @ monitoring of vaccination efficacy.
- De varcines are always kept in in cold areas to protect them from degrading.

## Strategies for Pollo Elimination

- @ Routine immunization (oral polio vardnes in 0-14east agp 3 doses)
- (B) Supplementary Immunization Activities.
- @ House to house activity.
- (d) Using pulse polio booth.

## objectives

- (in the world.
- (b) To Continue heavy screening and evaluation processes.
- @ To stovet NGO's.
- (a) To improve the Quality of services.
- @ To boost pulse polio Immunization programms.

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# Outcomes of the programme

- India was declared as a Palio free Nation by WHO on 27th march 2014.
- No case of polio has been identified for more than 3 years since the last treatment was identified on 13th january 2011.
- Palio free nation's credit goes to various Nho's, media, Celebrities who promoted that programmes and played a kee key reale in pringing awareness among the people.

# \* Integrated Disease Surveillance Program (IDSP)

- · The IDSP is a national health program
- The program aims to establish a decentralized, state-based disease surveillance system to detect and respond to disease outbreaks in a timely and effective manner.

### Objectives

· To strengthen the surveillance of communicable and non-Communicable obseases in india.

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To establish a decentralized, state-based surveillance system

To provide timely and effective susponse to outbreaks of diseases.

· To improve the capacity of health systems to respond to public health emergencies.

# How it operates?

- · IDSP oprates at three levels :-
  - State
  - district
  - block
- At State Level, the program is managed by the state Surveillance Unit (SSU).
- At district surveillance Unit (DSU).
- · At block level, managed by Block Surveillance Unit (BSU).

## Functions

- · case seeporting
- · outbreak investigations
- · Data analysis
- · Capacity building of health workrevs.
- The program also involves the use of technology such as mobile applications and web portals to improve the speed

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and accuracy of disease supporting and supporting

## outcomes

'The outcomes of IDSP has been mixed.

- The program has contributed to detection of and control of several diseases outbreaks such as HINI influenza, chalera, and dengue.
- · It has also improved the quality of disease surveillance and reporting in india.
- >> However, there have been some challenges such as:-
  - Fradequate resources
  - Poos quality of data.
  - Lack of Coordination among different levels of health System.
- After these Challenges, the IDSP remains an important national health program in india and efforts are orgaing to address its challenges and improve its outcomes.

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## \* National Mental Health Program (NMHP)

- The National Mental Health Program was launched in 1982.
- · The aim of providing mental healthcase services to all citizens.
- · The program is focused on:-
  - promoting mental health.
  - preventing mental illness
  - providing treatment and rehabilitation services for people with mental illness.

## Objectives

- · Ensure availability and acresibility of minimum mental healthcare for all.
- · To encourage the integration of mental health into primary healthcarp.
- · To promote community participation in the planning, implementation, and monitoring of mental health sources.
- · To enhance human resources for mental health services.
- To encourage research in field of mental health.

## Functions

· providing mental health Seemices through primary healthcase centers, district hospitals, and medical colleges.

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- · Conducting Community-based interventions and awareness Comparigns to promote mental health and prevent mental illness.
- · Setting up dead de-addiction contents to provide rehabilitation services for people with substance abuse problems.
- · Training healthcase professionals and community health workers in the management of mental illness.
- · Providing financial assistance to states for the development of mental Health infrastructure.

## outcomes

- · Significant progress in the development of mental health infrastructure and human resources.
- · there are still significant gaps in the availability and accessibility of mental healthcare services.
- · Stigma and discrimination towards people with mental illness continue to be a major challenge in india, and there is a need for greater Community participation and awareness to address these issues.

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- \* National Programme for Prevention and control
  of Deafners
- · The most common sensory problem in humans is heaving Joss.
- · Prevention and control program for Deafners was developed by Government of Irdia's minktry of Health and family welfare.
- · 63 million people in India are distressed by this issue.

## Components of programme

- 1 Sounce provision: Early diagnosis and
- 1 Awareness generation through JEC activities:
  - For Early detertion of heaving impairment, in particular children, So that it is possible to treat those cases in a timely manner and to eliminate the stigma attached to deafners.
- (3) <u>capacity building</u>: In relation to audiometric facilities for the district hospital, neighborhood health centres and primary health centres.
  - on manpower training and development &
    - Education from medical College specialists to grass stoot staff will be provided for prevention, early detection and treatment of cases of heaving impairment and deafness.

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### Functions

- Development of human resources for earl  $\bigcirc$ freatment services.
- Developing the indtitutional capacities of district 2 hospitals.
- promote public awareness.
- 1 Training to all the management.

  Screening, early diagnosis and management.

## objectives

- 1 Early detection, diagnosis and treatment.
- 1 prevent the avoidable loss of heaving due to When.
- 3 treat individuals of all age groups suffering from deafness medically.
- 1 Construct a heaving aid using digital signal process.
- (5) Identification of healthcase facilities and operations at the primary, middle and teretiarly levels.

#### outcomes

- Decrease in no. of people with heaving impairment.
- Reduction in stange of diff. east conditions and heaving impairment
- Increased availability of Hospitals and treatment facilities.
- Improved support network for the heaving (u) impaired.
- Troreased Capacity building to ensure better treatment and facilities at the district hospitals.

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## \* Universal Immunization Programme [UIP]

- The UIP is one of the national Health programs in India.
- It was launched in 1985.
- The objective of steducing morbidity and mortality due to vaccine-preventable diseases.
  - The program provides free vaccination to all children in the Country.
  - The UIP provides vaccines for 12 vaccinepreventable diseases, which include 8Tuberculosis, Polio, Hepatitis B,
    Diphtheria, Portusis, Tetanus,
    measles, Rubella, Japanese encephalitis,
    Rotavirus, Pneumococcal disease,
    Haemophilus influenzae type B (Hib).
- network of primary health centers, community health centers, and district hospitals.
- The program Aims to achieve full immunization coverage of all children in the country by the age of two years.
  - over the years, the UIP has made significant progress in thereasing immunication coverage in the country.
- · According to National Family Health Swivey-5

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(NFHS-5) Conducted in 2019-2020, the pencentage of children aged 12-23 months who received all boust's vaccinations under the UIP was 62.3%.

- This is an important Improvement from 444. In NFHS-4 conducted in 2015-16.
- Despite the progress, The UIP Still faces challenges in achieving foul immunization coverage.
- The reasons include varcine hesitancy, inadequate infrastructure, and insufficient human resources.
- The program also needs to focus on improving the quality of vaccination services and addressing issues related to vaccine supply chain management.

# \* National Program for Control Bulindness

- · program is launched in 1976.
- of blindness and visual impairment.
- The NPCB aims to provide comprehensive eye cause services, prevent blindness and denabilitate visually impaired individuals.

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The program focuses on the following key strategies. 6-

- 1) strengthening of eye cause infrastructure
- The program aim to strengthen the infrastructure for eye cause services, including hospitals, eye banks and vision centres.
- It also focuses on the training of eye care possonnel and the development of human resources for eye care services.
- 2) Promotion of eye health;
  - Create awaveness about eye health and the prevention of eye diseases.
  - Also focuses on promotion of eye health through school health programs, workplace health programs, and community based programs.
- 3) Detection and treatment of eye diseases :-
- Aims to detect and treat eye diseases through a network of eye caue facilities, primary health centres, district hospitals, and specialized eye care centers.
- Also provide free freatment for Catavart, which is a heading cause of blindness in india.

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- (1) Rehabilitation of vikually impaired individuals:
- provides siehabilitation Bervices for visually impaired individuals, including the provision of assistive devices such as spectacles, low vision aids, and Braille devices.
- The program also provides vocational and employment opportunities for visually impaired individuals.
- The NPCB has made significant progress in oreducing the burden of blindness in indua.
- According to the datest survey conducted in 2019-2020, the prevalence of blindness in indual has deduced from 1.1%. in 2019-2020.
- The program has also increased the availability of eye cause services and has provided freatment for catavact has provided freatment for catavact to a lavege no of inclinibulals.