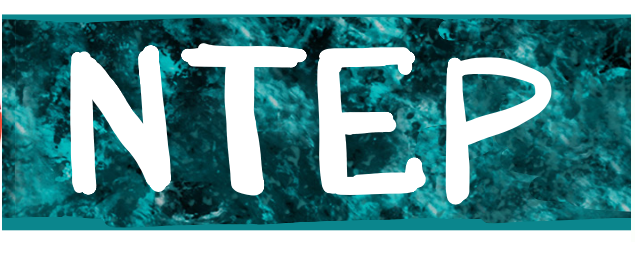


National tuberculosis programme

Saturday, 26 December 2020

1:34 PM



- World TB day - 24th March
- ↳ declared as 'global emergency' in 1983.

Epidemiology in India:

(ARI) Annual risk infection (ARI)

↑ 1% → 50 SS+ve cases / lac population

- Incidence is 1.7 per 1000 new cases of disease

1-2%

* Global target to end TB → 2035

↳ In India Aim is to end the TB in India by 2025

NEW TARGETS

- Case Detection > 70% → > 90% → Sputum microscopy
- Cure Rate > 85% → > 90% → DOTS



National strategic plan for TB elimination: (2017-25)

To achieve > 90% notification

> 90% success for all new TB cases

> 85% success for Retreatment of recurrent cases

Early Diagnosis & Treatment:



Diagnostic tests:

Microscopy — ZN stain

— LED-FM

Culture — LJ medium

— ALC (BACTEC)

— Drug Sensitivity testing

Rapid Mol. Δ testing → LPA

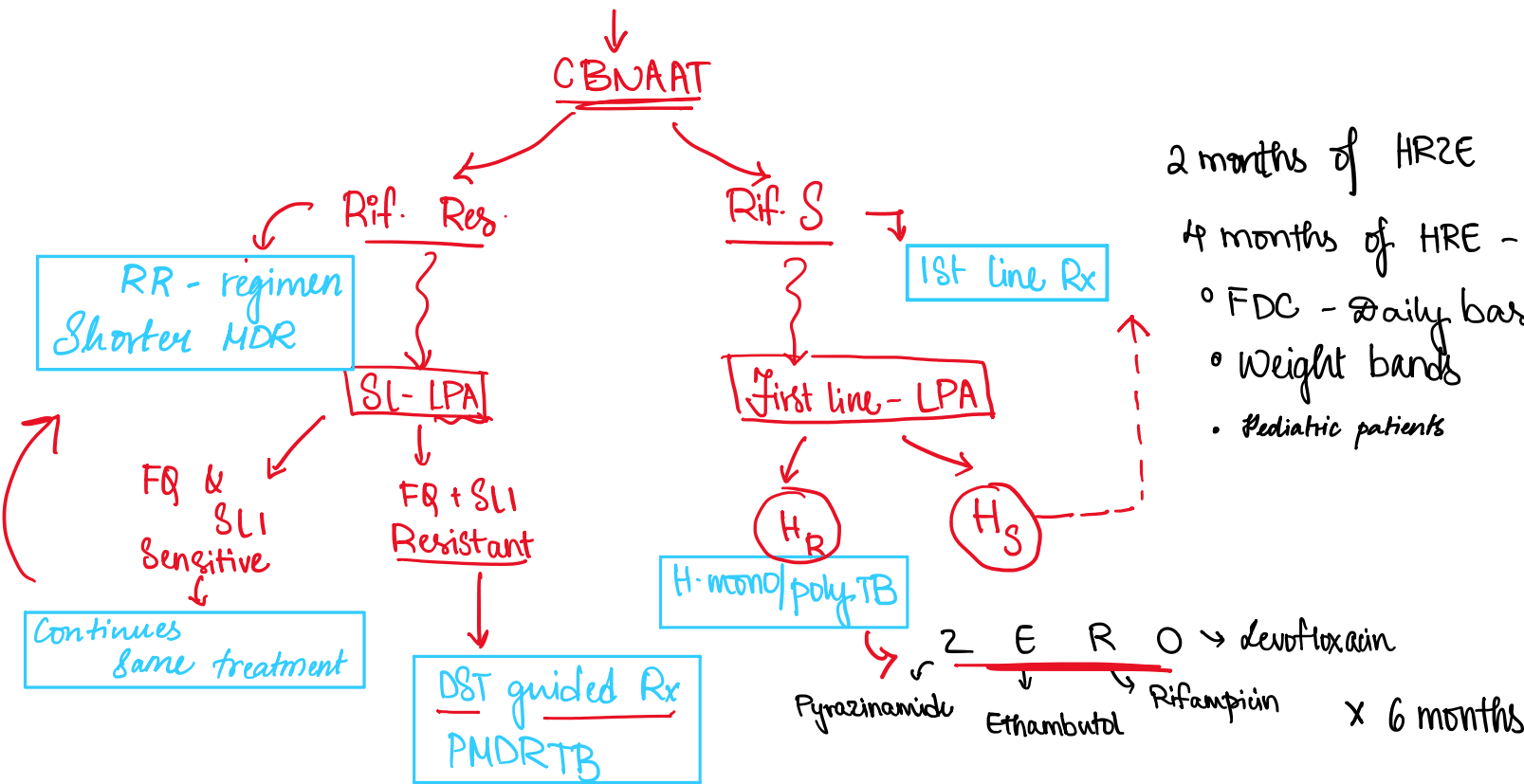
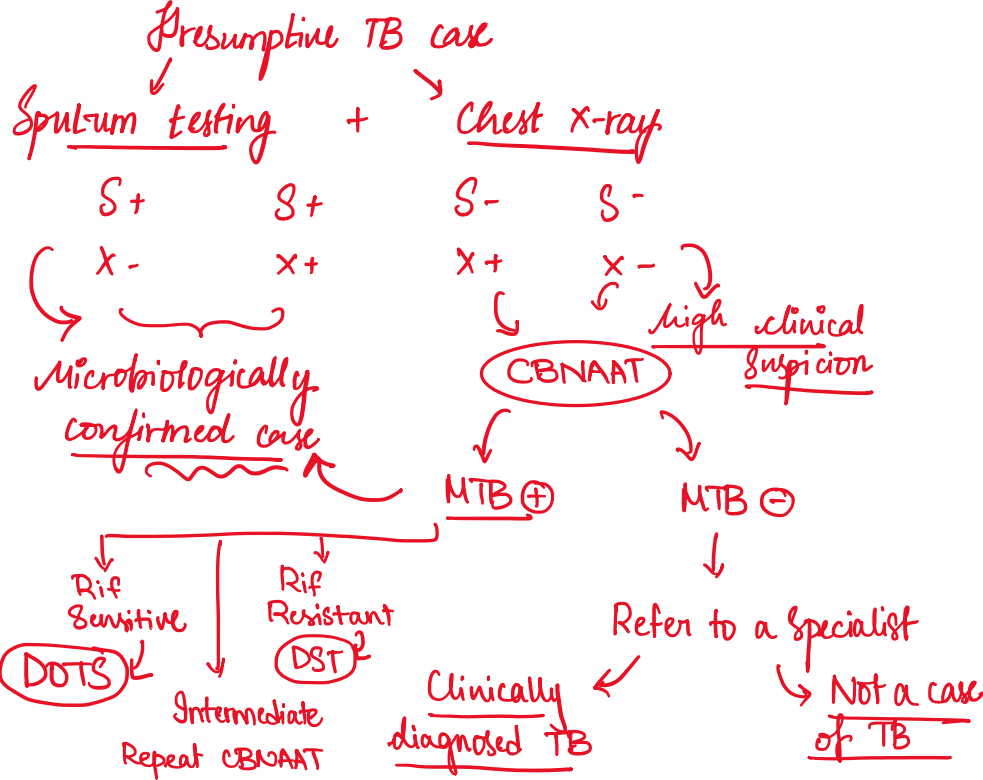
→ CBNAAT

↳ D.S

What is a Presumptive TB case?

Fever
Cough
Night Sweats
Weight loss > 1m
no wt gain in 3 months.

≥ 14 days



2 months of HRZE

4 months of HRE - Continuation

- FDC - daily basis (1 NOV: Pan-India)
- Weight bands
- Pediatric patients

RR-regimen Shorter MDR

(4-6m) → CHDKZEE + Sm [WZE]

C - Clofazimine

H - Isoniazid

O - Moxifloxacin

K - Kanamycin

Z - Pyrazinamide

E - Ethambutol

E - Ethionamide

Categorization & Treatment regimens:

NTEP

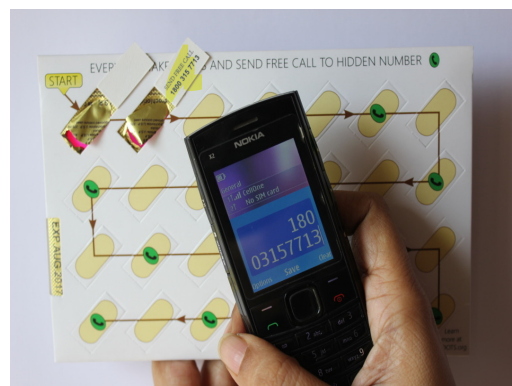
Cat	Category	Treatment Regimen	Duration
Cat I	New SS +ve	1st-line Rx	6 months
Cat II	SS -ve, relapse ² failure	1st-line Rx	8 months
Cat IV	MDR	Shorter MDR/Conventional	18-24 months
Cat V	XDR	DST guided regimen	24-30 months

Other Strategies:

- * **Active Case Detection** : Door-door screening; 15 day campaign.
- Active Surveillance by Health dpt. workers, ASHA's, TB supervisors.

- * **Nikshay** : ICT based Surveillance Support
- online monitoring software - to get notification of TB cases
- Continuous monitoring & Treatment of all Registered cases
- Tracking of all notified TB cases.

- * **DOTS-99** : ICT-based Adherence support
- low cost approach for monitoring & improving TB medication adherence.



- * **Newer Anti-TB drugs**
- Bedaquiline (Conditional Access programme trial)
- Delamanid (FB)

- * **Air borne Infection control kits**

- * **TB notification in INDIA - 'MANDATORY'**
- < 30 d of A/Rx
- Incentives: TB pt - ₹500/- every month

DOTS providers :

providing Rx to Cat-I : ₹1000/-

Cat-II : ₹500/-

Cat IV/V : ₹5000/-

- * **Chemoprophylaxis of TB**

bcc : INH @ 10mg/kg - 6 months

↳ all contacts of SP-TB for age < 6yrs

children to 9 months to TB in pregnancy.

- * **Fort night clinical review of all TB cases.**

Organisation

Central TB division

↓

State TB cell

↓

District TB cell

↓

Tuberculosis unit + STS

Designated microscopy centre (DMC)

for 1 lakh

DOTS centre

1st line Rx → at all Rx centres

H-mono → District level Hospitals

XDR → National PMTB

Monitoring & Surveillance

ARTI : Annual Risk of TB infection

ATIR : Annual TB infection Rate.

- based on incidence & prevalence

↓

Sensitivity.

↓

BURDEN