

Disseminated Pre-XDR TB

NAR 2023 - Challenging Case Session - Feb 24, 2023
William Connors MD FRCPC

Infectious Diseases / Tuberculosis Medicine

St. Paul's Hospital / Vancouver General Hospital / BC-CDC

Clinical Assistant Professor – University of British Columbia

20 yo female from India 'previously healthy'

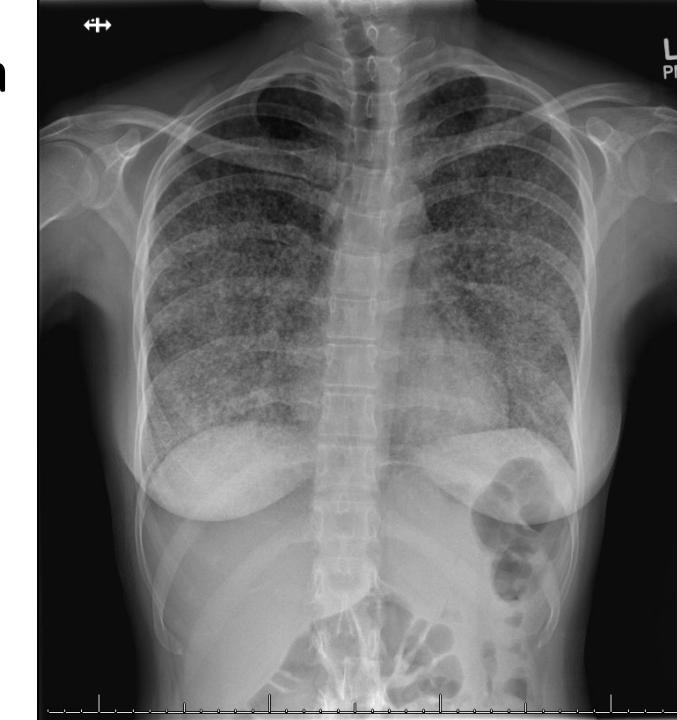
Cough x months, recent 'steroids' via GP Fever for weeks, worse dyspnea = ER

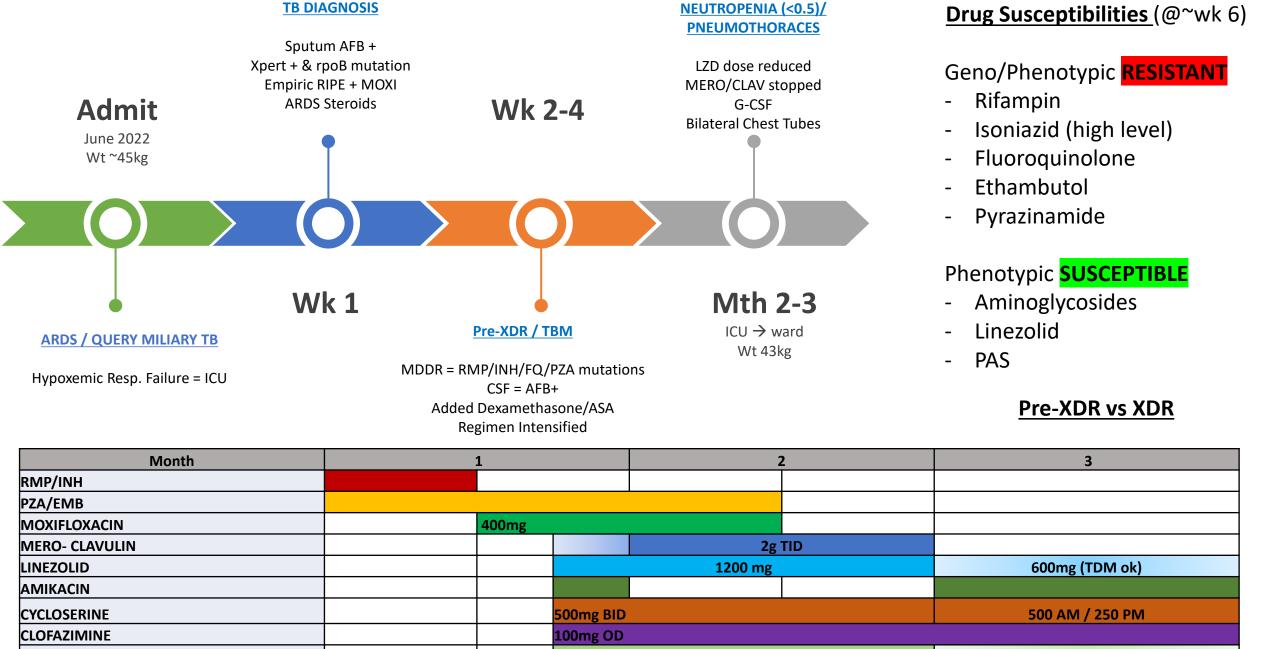
Hypoxia → respiratory failure = ICU

Collateral:

- In Canada x 6 months = student
- Contact with TB (uncle) 8 month prior
- TB screening (pre-arrival) = "clear"

HIV/HBV/HCV negative, non-diabetic





400 mg OD

100mg BID

BEDAQUILINE

DELAMANID

200mg TIW

| Month | 1 | | 2 | | 3 |
|----------------|-------|-----------|---------|-----------|-----------------|
| RMP/INH | | | | | |
| PZA/EMB | | | | | |
| MOXIFLOXACIN | 400mg | | | | |
| MERO- CLAVULIN | | | 2g · | TID | |
| LINEZOLID | | | 1200 mg | | 600mg (TDM ok) |
| AMIKACIN | | | | | |
| CYCLOSERINE | | 500mg BID | | | 500 AM / 250 PM |
| CLOFAZIMINE | | 100mg OD | | | |
| BEDAQUILINE | | 400 mg OD | | 200mg TIW | |
| DELAMANID | | 100mg BID | | | |

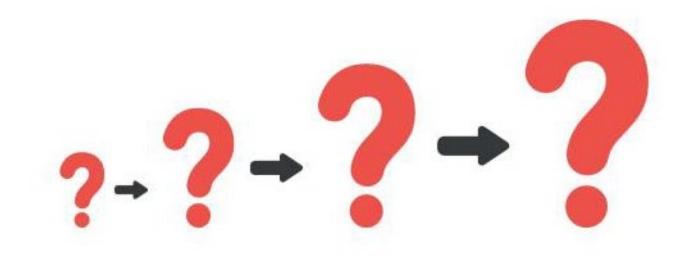
Treatment of pre-XDR TBM...

What drugs?

What doses?

What duration?

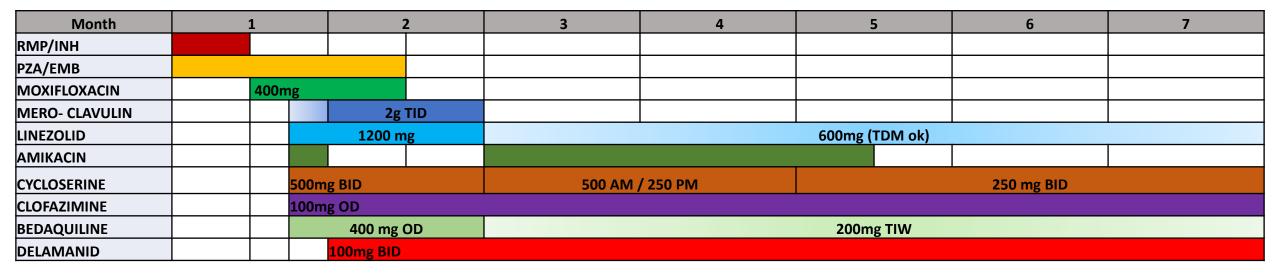
What evidence?



OUTCOME & PLAN

Discharged from hospital after 5 months (culture conversion @ ~3mth)

- Clinically well, good drug tolerance (BDQ/CYCLO-B6/PTM/LZD/CLOF)
- Plan 18+ months from CNS conversion (~21mth) of 5-drug regimen



It takes a village = Surrey Memorial Hospital ID Team (<u>Denise Werry</u>), BCCDC/NML Mycobacteriology Teams (<u>Inna Sekirov</u>), BCCDC TB Program, <u>Lisa Chen</u> (UCSF Center for TB) and our patient.