





INTRODUCTION OF BPAL-L 6-MONTH RR–TB REGIMEN WEBINAR

REVISED TB DIAGNOSTIC ALGORITHMS

Dr Lindiwe Mvusi 30 August 2023







OUTLINE

- Background to the changes
- New diagnostic platforms
- Placement
- Implications
- Diagnostic Algorithm revisions
- Way forward







BACKGROUND

- Xpert cartridge shortages experienced in 2021-22
- Diversification of testing platforms
- WHO Update on the use of nucleic acid amplification tests to detect TB and drug-resistant TB

Technology Class	Products included in evaluation
Moderate complexity automated NAATs for detection of TB and resistance to rifampicin and isoniazid	Abbott RealTime MTB and Abbott RealTime MTB RIF/INH (Abbott) FluoroType MTBDR and FluoroType MTB (Hain Lifescience) BD MAX [™] MDR-TB (Becton Dickinson) cobas MTB and cobas MTB-RIF/INH (Roche)
Low complexity automated NAATs for detection of resistance to isoniazid and second-line anti-TB agents	Xpert MTB/XDR (Cepheid)
High complexity hybridization-based NAATs for detection of resistance to pyrazinamide	Genoscholar PZA-TB II WHO consolidated guidelines on tuberculosis
	Module 3: Diagnosis



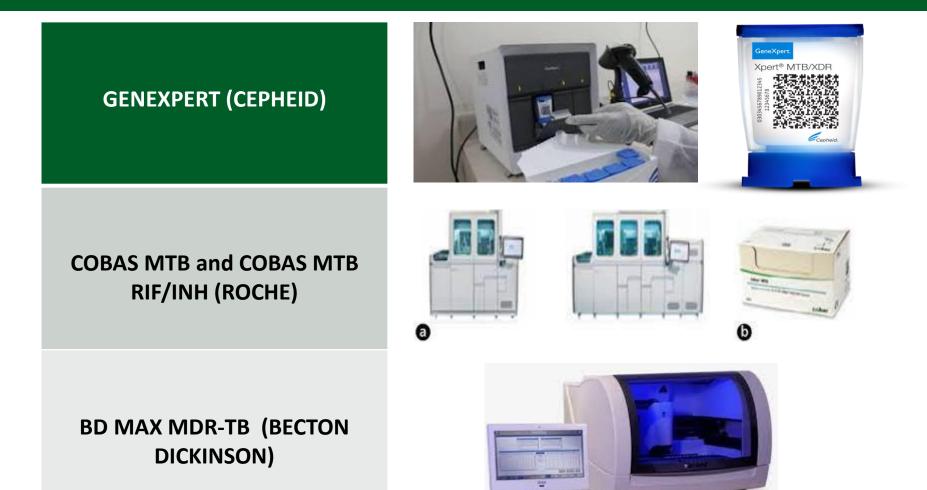




2021 update

World Health Organization

TB TESTING PLATFORMS

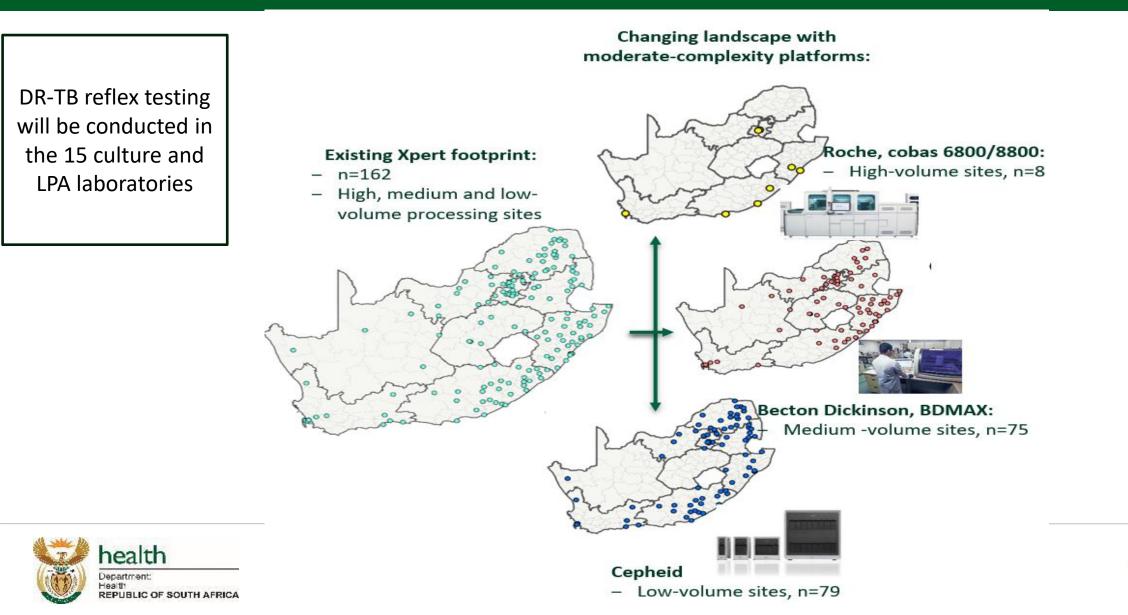








PLACEMENT OF TESTS





5

IMPLICATIONS

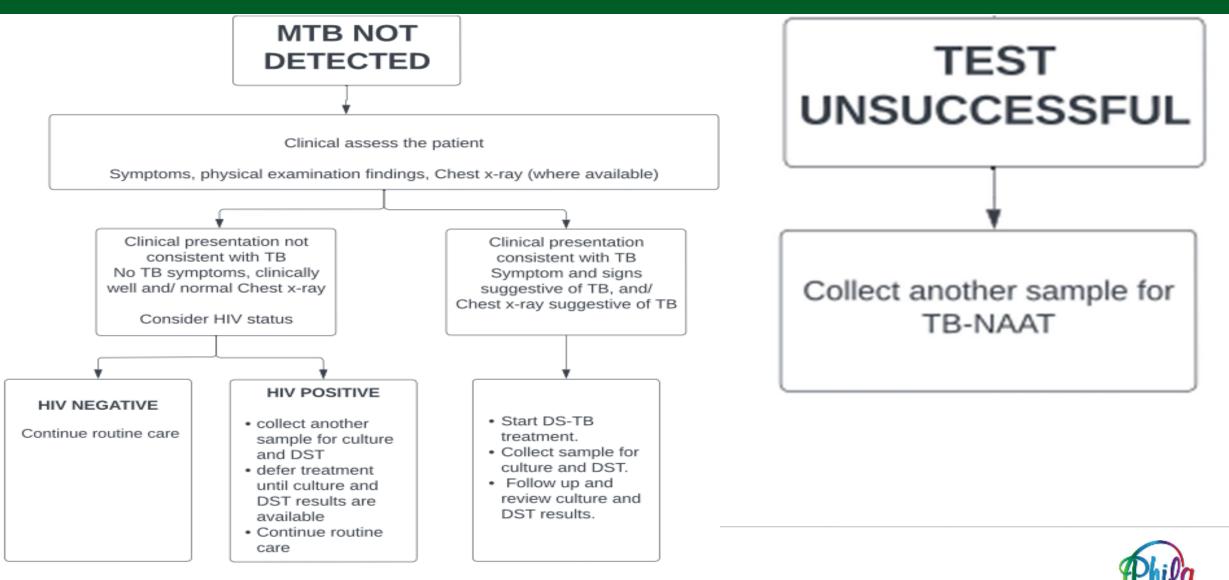
- No reference to Xpert as first line test but TB-NAAT which is the class of all these tests
- Cobas and BD Max conducted on sputum only
- Xpert conducted on sputum, gastric washings/aspirates, lymph node biopsies or fine needle aspirates, tissue biopsies, Fluids (joint, pleural, ascitic, peritoneal, pus collection) and cerebro-spinal fluid (CSF) – ? stool, urine
- Results reported as RS, RR, HR, MDR TB
- Major change is HR diagnosis upfront, requiring appropriate management at point of diagnosis
- Patients with RR/MDR-TB will be referred to treatment initiation site



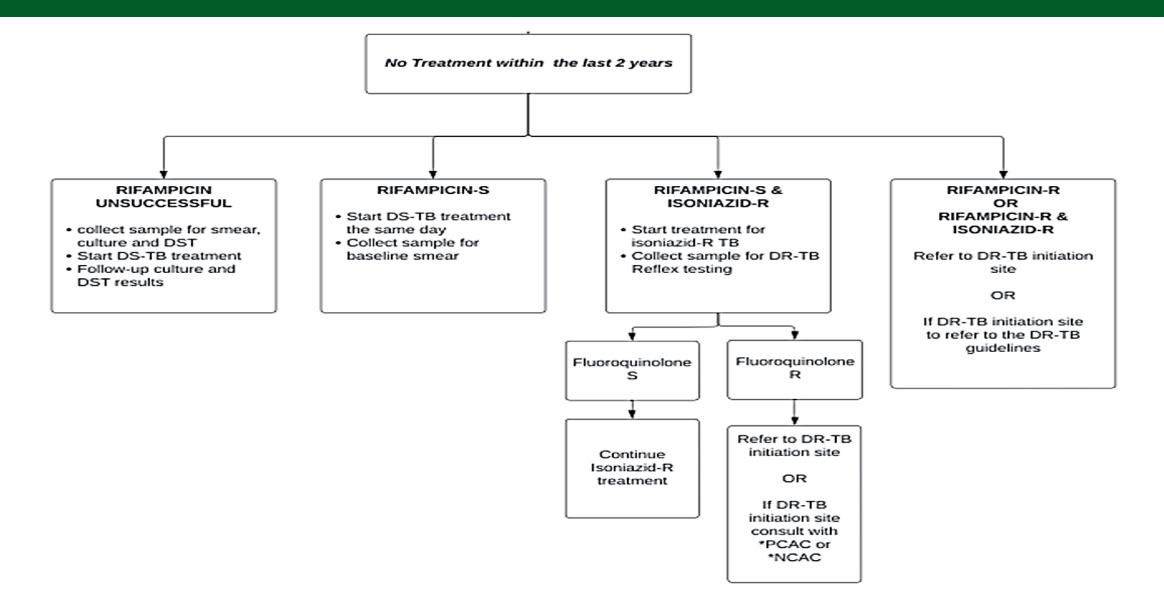




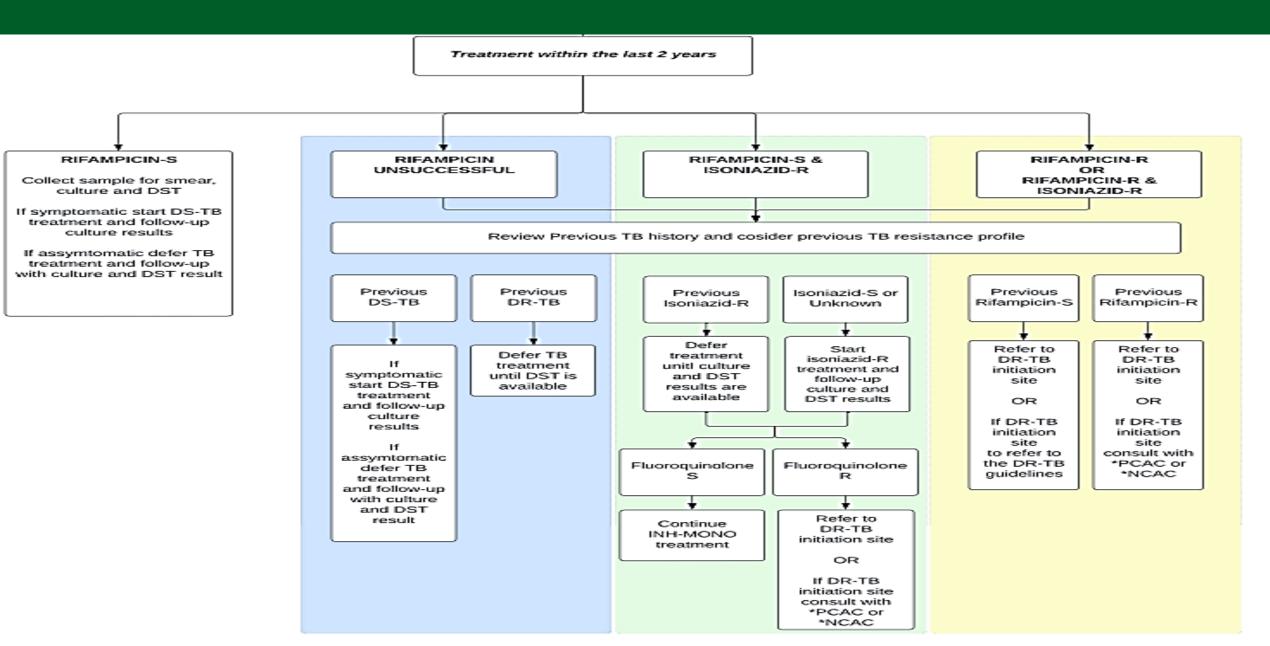
MTB NOT DETECTED



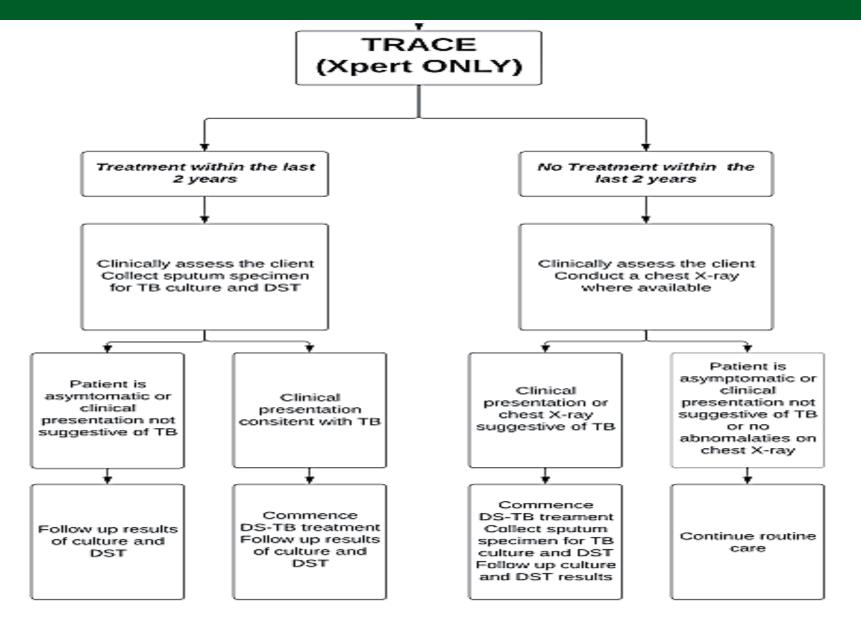
MTB DETECTED – NO TREATMENT WITHIN THE LAST 2 YEARS



MTB DETECTED – TREATMENT WITHIN THE LAST 2 YEARS



TRACE (Xpert ONLY)





WAY FORWARD

- Implementation in September dependent on laboratory readiness
- Laboratory reports will be revised
- Training
- Knowledge Hub webinars
- Printing and dissemination of algorithms
- Revision of data elements and NIDS







thank





