

Xpert MTB/RIF use for TB
diagnosis in TB suspects with no
significant risk of drug resistance
or HIV infection

DOTS expansion and enhancement

Objective

- This group deals with the majority of TB suspects and patients
- Most patients needing immediate and more specialized/ additional care are excluded into HIV and DR-TB algorithms
- Primary objective is for early and increased case detection
 - Smear negatives are difficult to diagnose and current algorithm not being practiced
- Global level broad guidance but decisions at country level
 - Promote countries to develop models

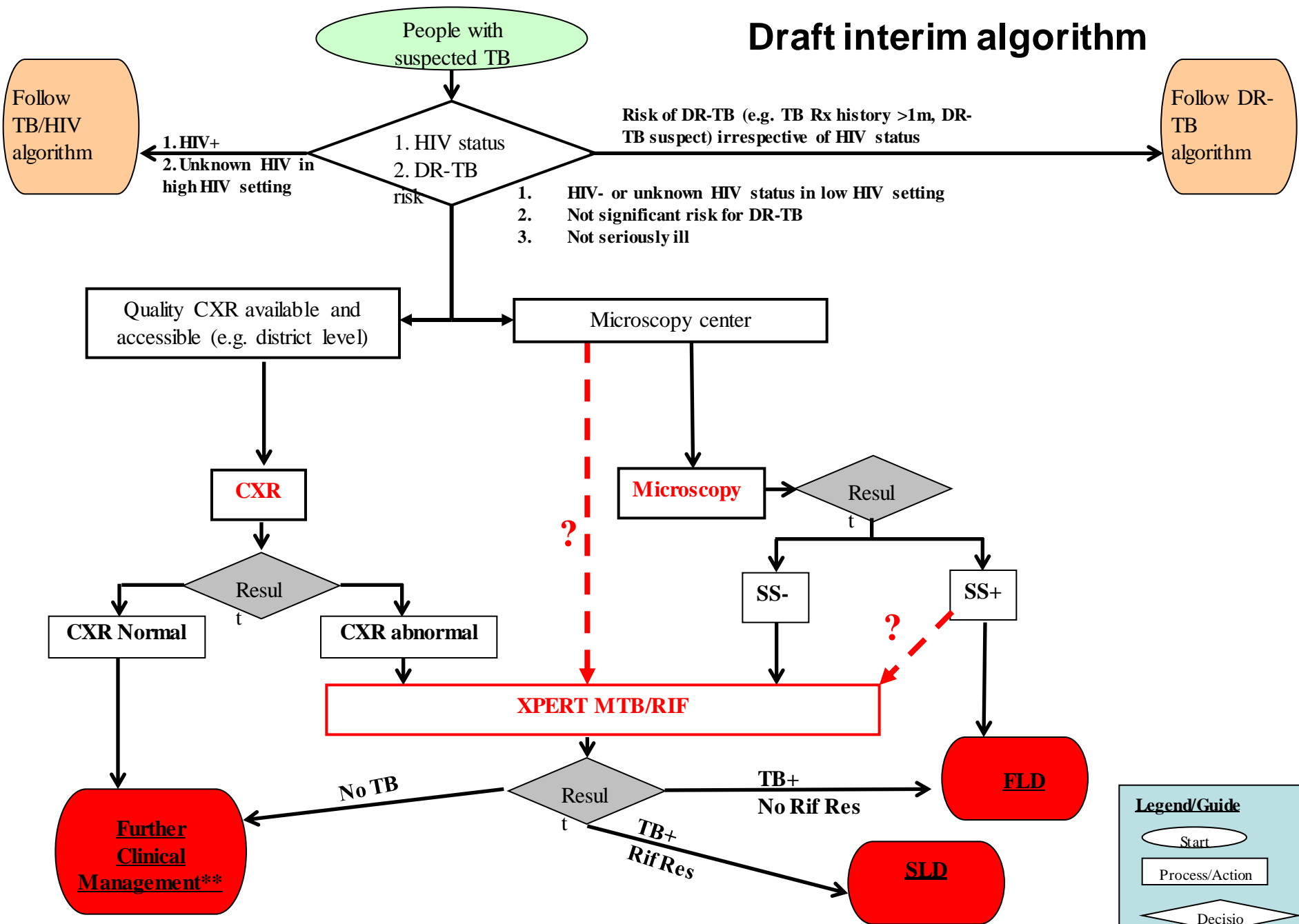
Consensus...1

- Introduction of Xpert should include district level, or sub-district level facilities, preferably, but not limited to, facilities with quality CXR / (public + private?)
 - Discussion points for the agreement:
 - Epidemiological situation / individual patient risk factors / level of health system
 - Public health goals versus individual patient levels
 - PAL and health system links
 - NTPs and Partners will buy machines – guidance required on where and how to use them given the cost of cartridges

Consensus...2

- For all health facilities develop country level models and test them (public and private)
 - Local context of flow patterns for patient, specimen and result
 - Balance between decentralization, local needs, hardware feasibility
 - Prioritization list is a country level decision
 - Pediatric, private sector, etc.
 - Risk groups in a priority order
 - CXR abnormal, SS- suspects, seriously ill patients
 - Decide which SS- require Xpert

Draft interim algorithm

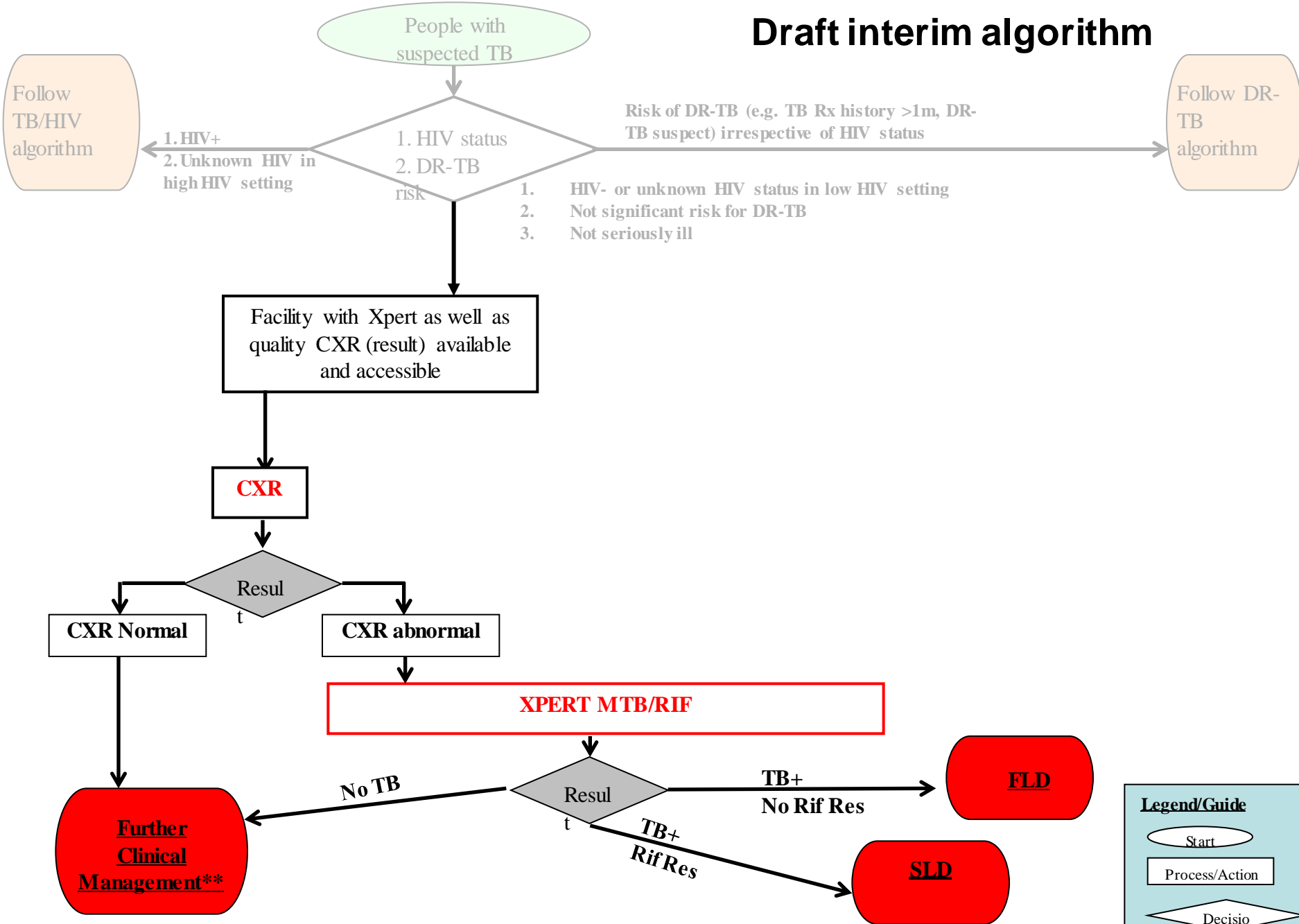


Legend/Guide

- Start
- Process/Action
- Decision
- Endpoint

**TB diagnosis can not be totally ruled out, particularly for the TB suspects who have normal CXR and did not undergo any bacteriological examination. For this specific category of patients, a sputum smear examination may be needed.

Draft interim algorithm

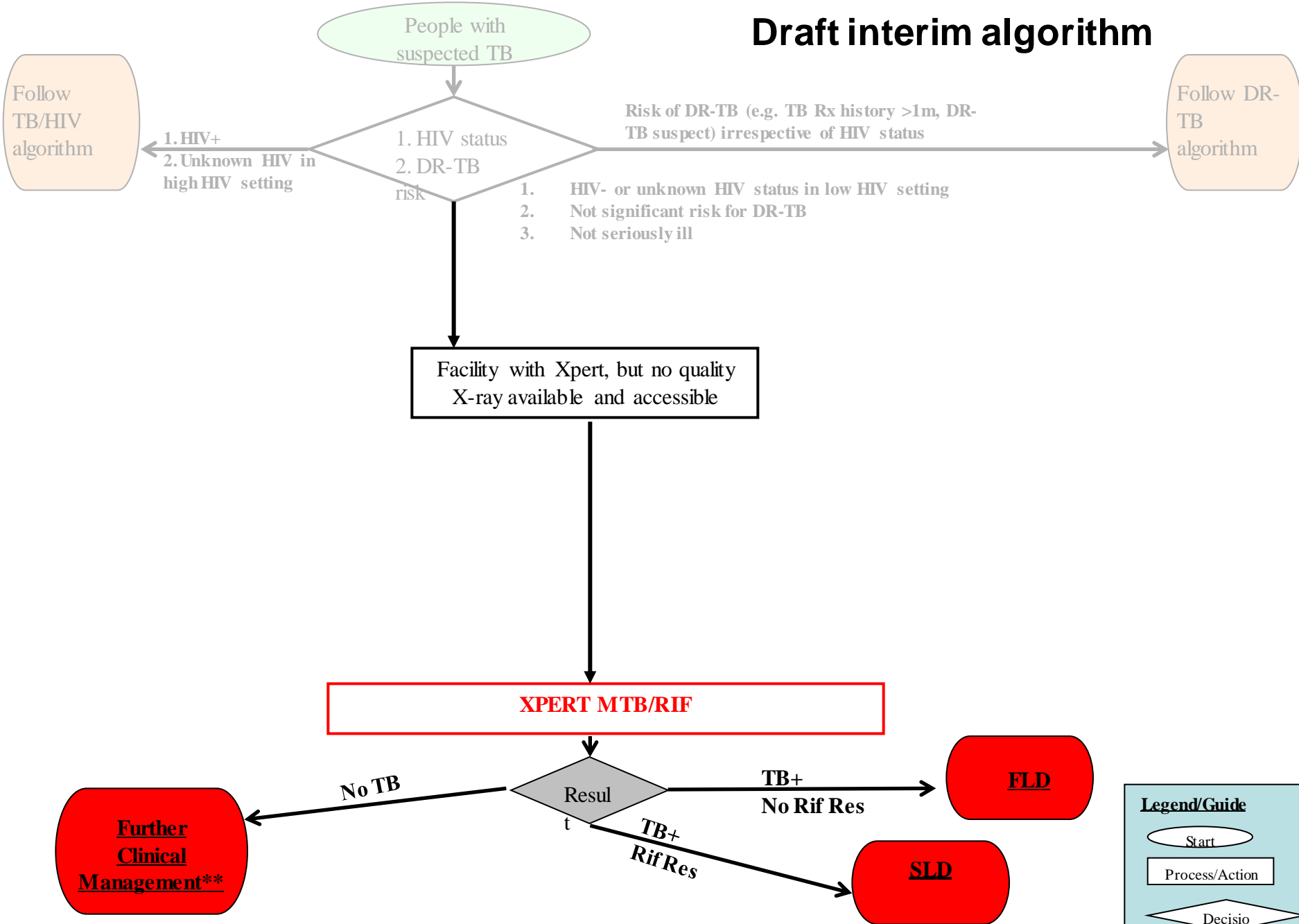


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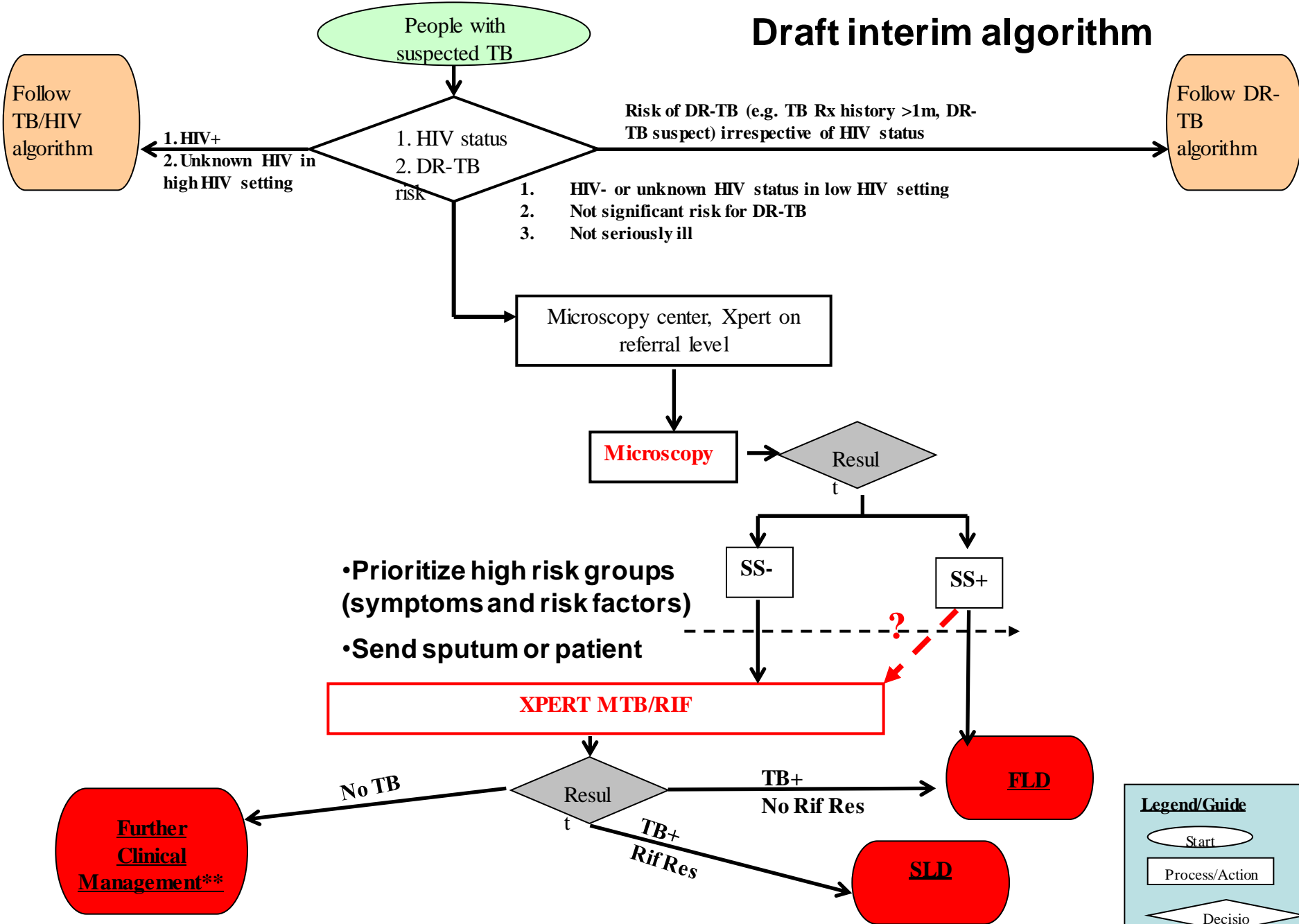


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Draft interim algorithm



- Prioritize high risk groups (symptoms and risk factors)
- Send sputum or patient

XPRT MTB/RIF

Legend/Guide

- Start (Oval)
- Process/Action (Rectangle)
- Decision (Diamond)
- Endpoint (Rounded Rectangle)

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- Algorithm is for adults
- Seriously ill patients in the algorithm are small proportion
 - Quick and appropriate clinical management, including referral for hospitalization

Opportunities

- For reemphasising policy
 - On front loaded microscopy
 - HIV testing for TB suspects
 - PAL
- Health system
 - Investing on CXR
 - Use of Xpert for other diseases (health system strengthening)
 - Human resource benefit from Xpert
- CXR
 - QA
 - New technology in Xray
 - Evidence on algorithm as a whole
- Strengthening specimen referral system
- Electronic notification, data storage, inventory

Unresolved issues

- Diagnostic algorithm for pediatric TB
- Case definitions and treatment outcome definitions
- Treatment monitoring tool
- Scaling up availability of quality Xray – Health system issue
- Xpert in low burden setting / active case finding
- Regulatory issues related to Xpert

Thanks