

Adapting a Decision-Support Table

WHO HIV DAK → Ethiopia · authored in **Annex B** (decision-support logic)

DECISION TABLE

The adaptation loop

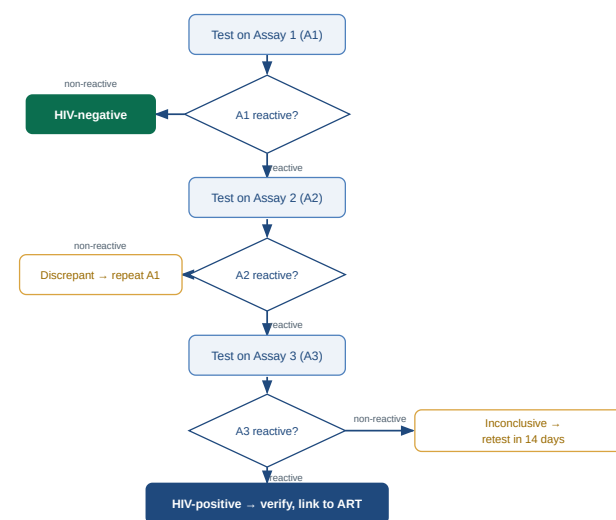


↻ repeat for each table or indicator — every finished artifact feeds L3 (PlanDefinition + CQL · Measure + CQL)

THE 6 STEPS

- 1 Locate.** In the Data Dictionary (Annex A), filter the module tab by *Linkages to Decision Support Tables* → the table's input and output data elements.
- 2 Read the WHO logic.** Write down the clinical-safety invariants you must **not** lose.
- 3 Find national divergences.** The ~20% that is Ethiopia-specific. **[confirm: ETH]**
- 4 Author.** Fill the Annex B table (format →). Every input/output is a coded data element, never free text.
- 5 Check.** ≤10 inputs; hit policy + operators set; safety invariants intact; add references.
- 6 Record provenance.** In **Annotations**: what diverged from the WHO table and why; track the version.

WORKED LOGIC — HIV TESTING ALGORITHM



FORMAT (ANNEX B)

- Columns: **Rule ID** · **Condition Inputs** (one per element) · **Output Type** · **Action** · **Guidance** · **Annotations** · **Reference(s)**
- Declare a **Hit Policy** (usually *Rule order*)

DON'T BREAK IT

- Keep **every WHO safety rule** (e.g. non-reactive → negative; serial testing; discrepant → repeat; inconclusive → retest in 14 days)

DONE?

- Built from the WHO table, not scratch
- Every value a coded Annex A element
- ≤10 inputs; policy + operators set
- Safety invariants intact; references added

- Operators: `=` `IN` `≥` `<` `is NULL` `=True/=False`
- **≤10 inputs** — split larger tables

- Stratify on a data element's **value, not its code**
- Use the **correct dose/threshold per drug**
- Changed a DD element/value set? Update every linked table (Annex A *Linkage* columns)

- Provenance recorded; ground-truthed

Then it becomes L3: **FHIR PlanDefinition + Library + CQL**

Method: WHO SMART Guidelines IG Starter Kit v2.0.0 · WHO HIV DAK 2nd ed. · HIV IG v1.0.0. Ethiopia specifics → confirm against national guidelines.