



# Advanced HIV: A Paradigm Shift

## *Considerations for Monitoring and Evaluation*

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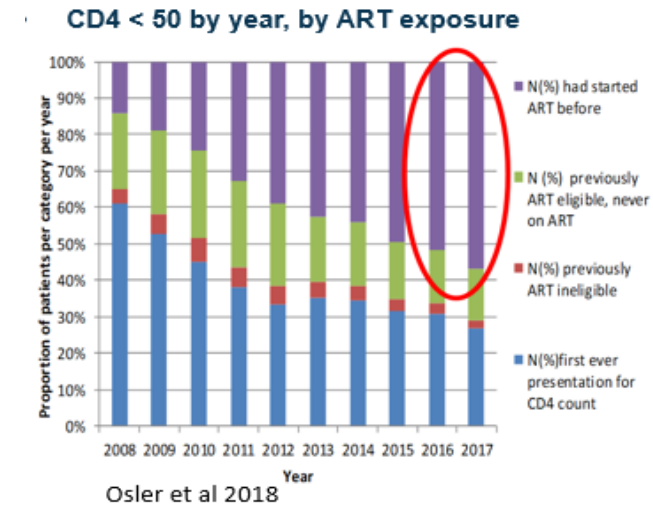
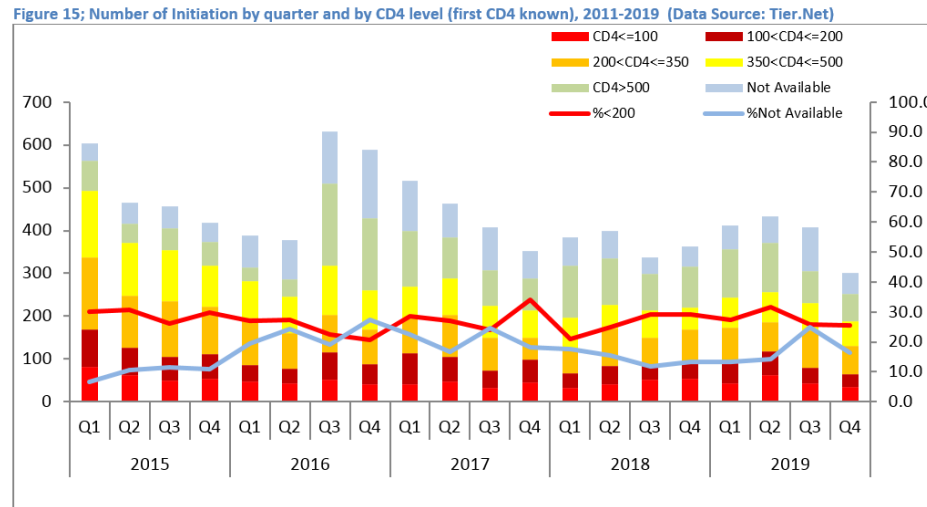
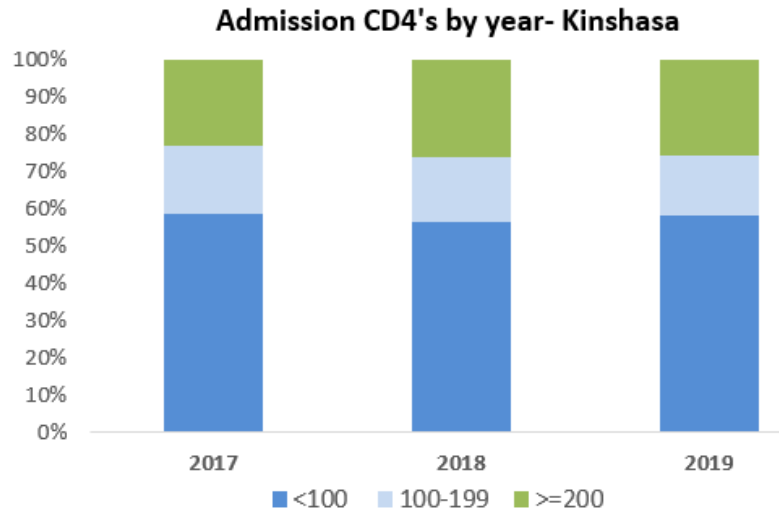
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**HIV LEARNING NETWORK**  
The CQUIN Project for Differentiated Service Delivery

# Background

- AHD remains an important life-threatening problem in:
  - Low and high HIV prevalence settings
  - PHC and hospitals
    - Implies need for strong referral and contra-referrals



# Who are we seeing? Who do we count?

	PHC	IPD
Describing who enters:	<b>Total unique patients seen</b>	<b>Total admissions</b>
	<b><i>Stratified by:</i></b> <b>Sex (M/F)</b> <b>Age (0-&lt;5; 5-15; 15-24; 25-49; &gt;49)</b> <b>ART history (Naïve; On ART; Interrupted*)</b>	
Entry door:		
		<b>CD4 measured</b> % 0-<100 %100-<200 % >=200
		<b>? CD4 &lt; 100 or &lt; 200 to trigger AHD tests ?</b>
Eligibility for CD4:	<b>New initiations</b> <b>Returnees</b> <b>High VL</b>	<b>CD4 on all admissions</b>

\*Previously on ART but having interrupted treatment for at least 90 days

# AHD Algorithms feed the M&E system

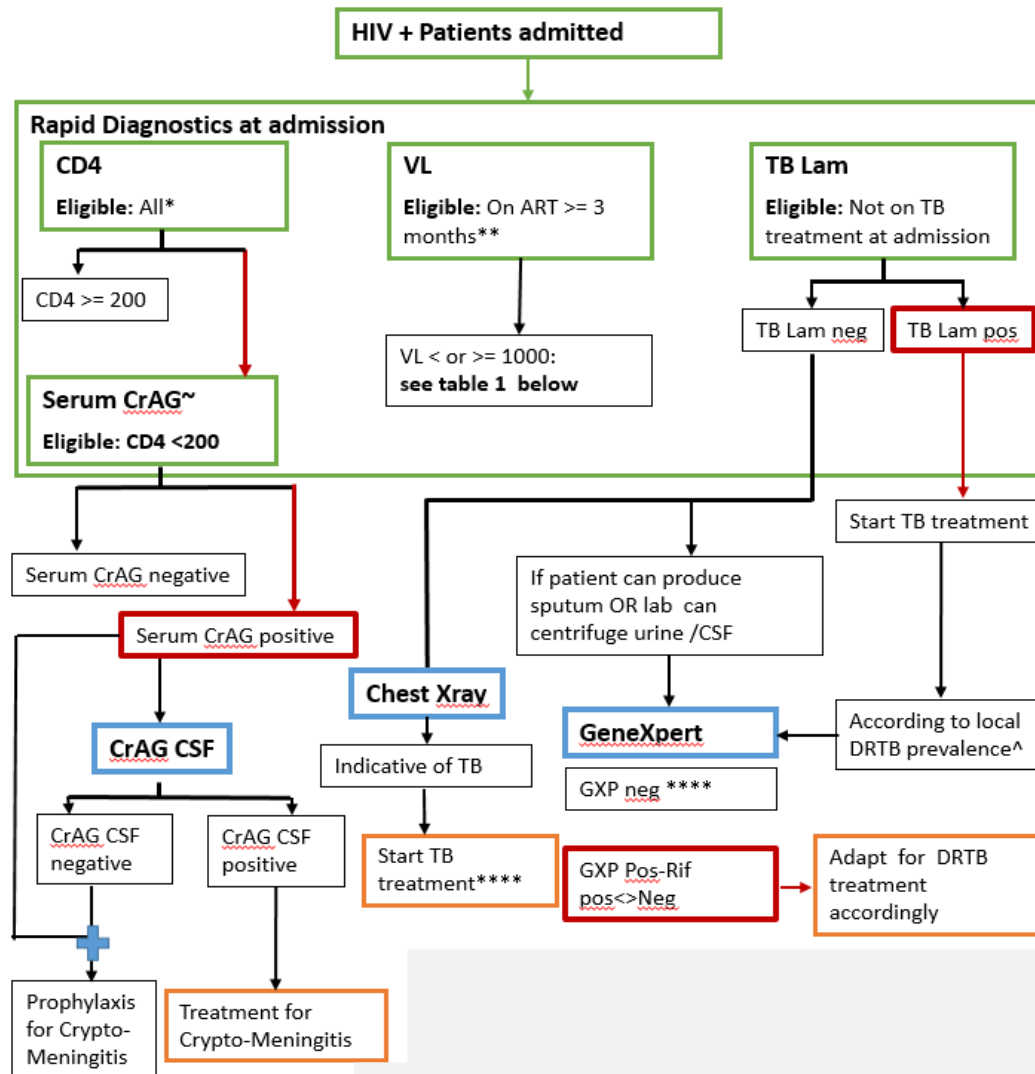


Table 1 : algorithm based on CD4 and VL results  
(see: Fig 11.4 chap 11 MSF PHC guideline)

VL result	CD result	Action
VL < 1000 🟢	CD4 < 200 🟡	OI check
VL >= 1000 🟡 (or VL Not available)	CD4 < 100 🟡	Switch to 2 <sup>nd</sup> line (+DTG)
VL >= 1000 🟡	CD4 >= 200 🟢	Adherence check

\*Review project specific definition for valid CD4 at admission (i.e. at admission or within 3 months of admission)

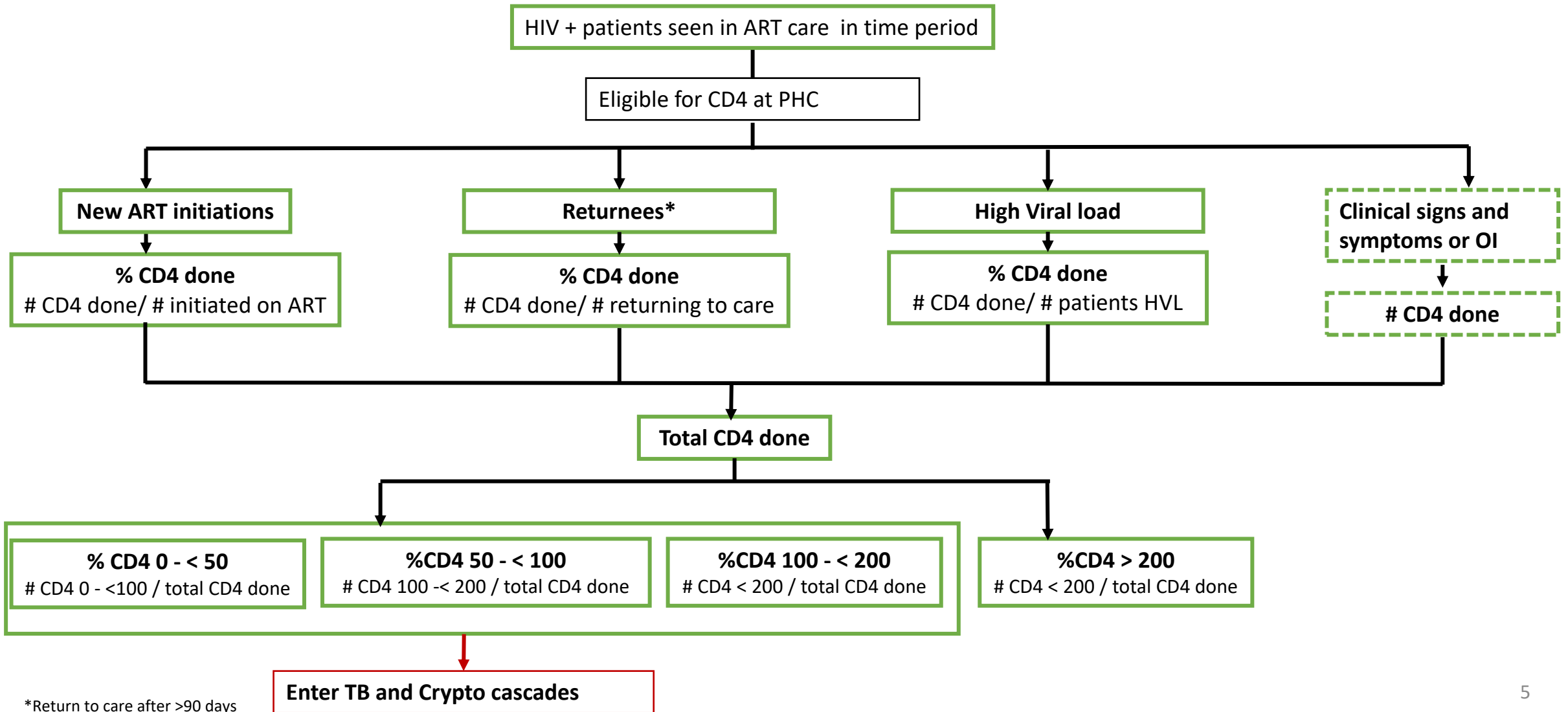
~In projects where the majority of patients admitted have a CD4 < 200, this algorithm is often simplified such that all admitted patients receive a serum CrAG.

\*\*Review project specific definition for valid VL at admission (i.e. at admission or within 3 months of admission)

^If local DRTB high prevalence, all TB lam positive should received Rif R testing via GeneXpert.

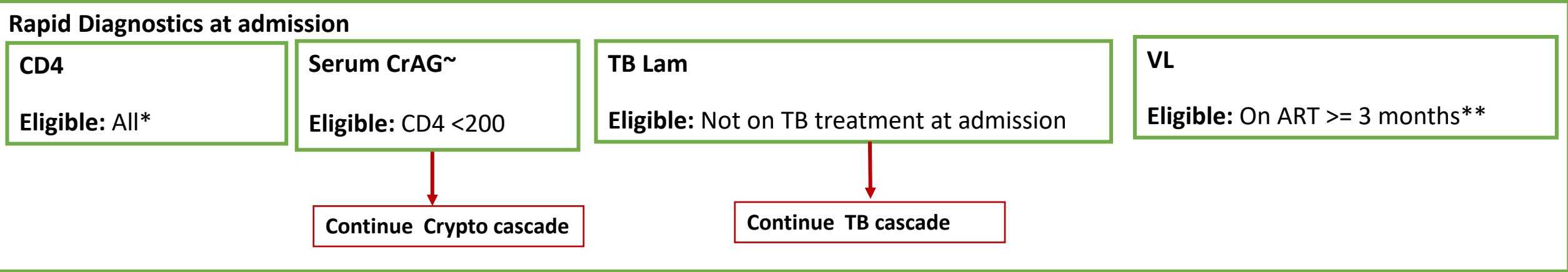
\*\*\*\*: CNS TB likely or clinical presentation strongly suggests TB; investigations not available or unable to exclude TB, Clinical condition life threatening, patient deteriorating, or not improving after 3 days of hospitalization (MSF IPD guideline page 9)

# The entry door: PHC



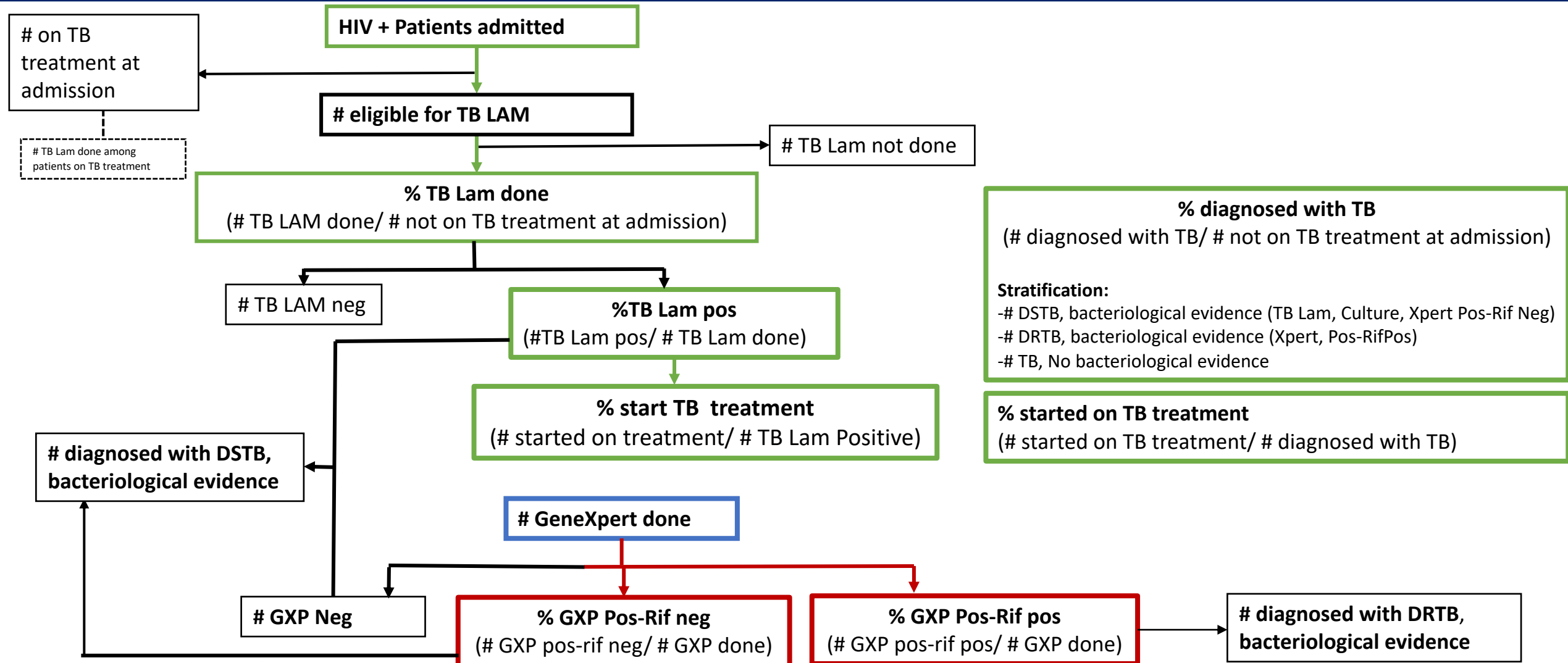
# The entry door: IPD

HIV + Patients admitted

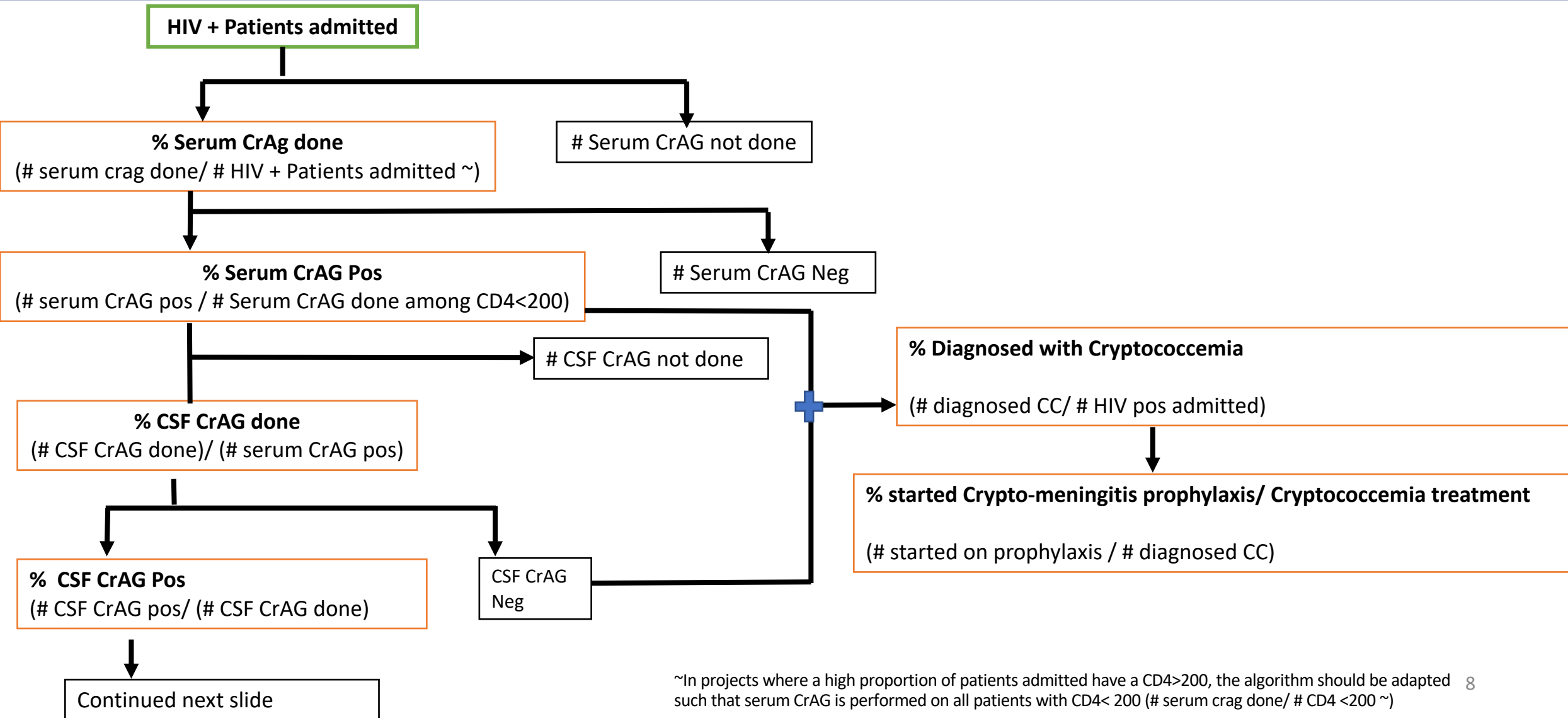


~In projects where the majority of patients admitted have a CD4<200, this algorithm is often simplified such that all admitted patients receive a serum CrAG.

# IPD: TB



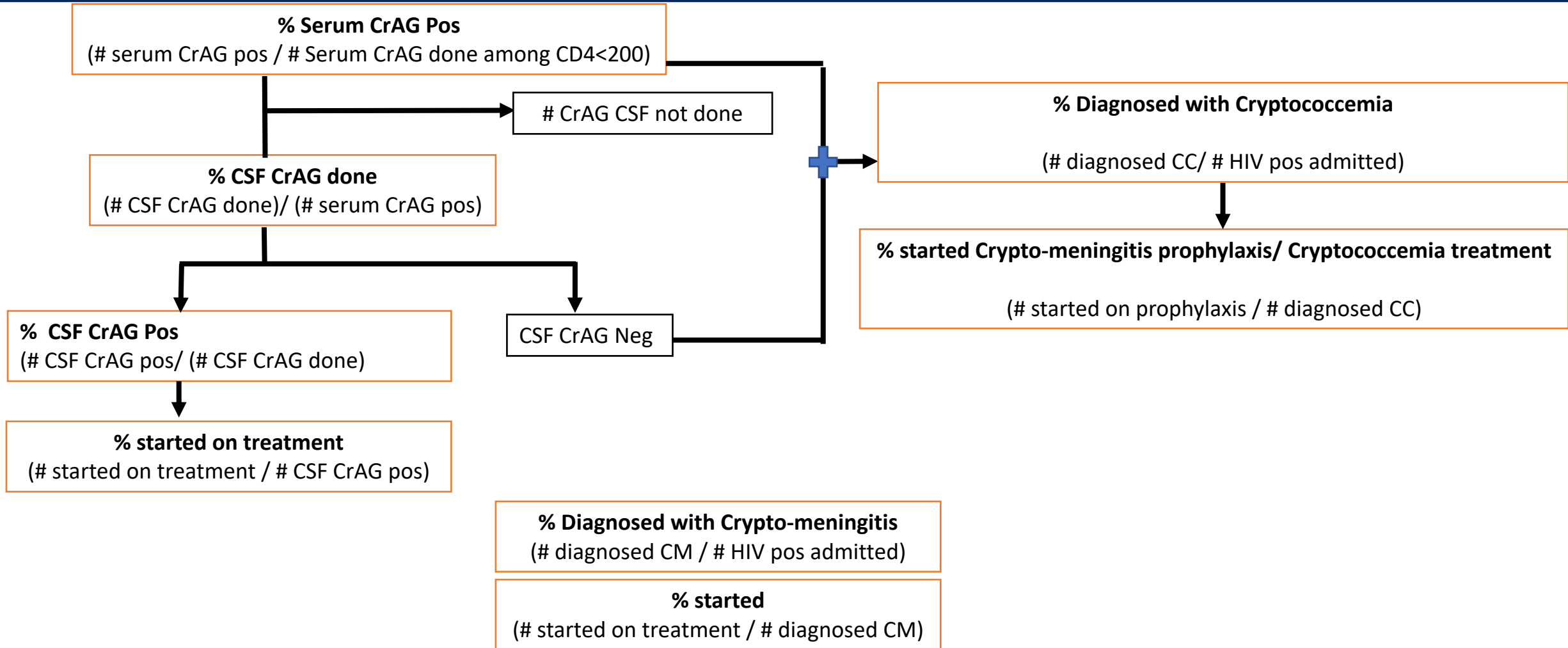
# IPD: Crypto



~In projects where a high proportion of patients admitted have a CD4>200, the algorithm should be adapted such that serum CrAG is performed on all patients with CD4< 200 (# serum crag done/ # CD4 <200 ~) 8



# IPD: Crypto continued



# Recap

	PHC	IPD
	<b>Total unique patients seen</b>	<b>Total admissions</b>
<b>CD4</b>	<b>CD4 stratified by eligibility:</b> High VL; New initiations; Returnees*  <b>Stratified by:</b> Sex; Age; ART history (Naïve; On ART; Interrupted*)	<b>CD4 on all admissions</b>
<b>LAM</b> <b>GXP</b>	All with CD4 < 200 or signs and symptoms of TB at any CD4 count High prevalence DR TB : GXP on all <u>+ve</u> LAM Low prevalence DR TB : ? Cut -off	
<u>Serum CrAg</u>	?CD4 < 200 < 100 ? Or signs and symptoms of meningitis	
<u>CSF CrAg</u>	Referral to 2 ° health	Positive S- <u>CrAg</u> / Signs and symptoms
<b>Outcomes</b>	Routine M&E, particular attention to 3 month mortality	<b>% Mortality</b> Stratified by: <48 hours; >=48hours
*Previously on ART but having interrupted treatment for at least 90 days		

# Summary and future steps

- There is momentum – AHD is being integrated into existing systems
  - Increase emphasis on outcomes: including treatment start, treatment outcomes and post-discharge follow-up
- Learn from routine HIV monitoring on the importance of objective measures in selecting monitoring indicators
  - Importance of easy to implement point-of-care tests
- Utilization of cascades can be useful but...
  - May underestimate total number of tests done
  - Challenging with aggregate data tools (e.g., paper register)

**The denominator is important and should be reflect reporting needs and feasibility**

# Thank you, enKosi, Merci, Danke



## Acknowledgements:

- Patients, project teams and partners

## References:

<https://samumsf.org/en/resources/hiv/advanced-hiv-disease>  
<https://samumsf.org/en/resources/msf-hivtb-clinical-guide-2018#>  
<https://samumsf.org/en/resources/hiv/advanced-hiv-disease/msf-hivtb-guide-hospital-level>