

Patient Pathway Analysis for DSD of TB in Kenya



Case Study: Kenya

Agenda

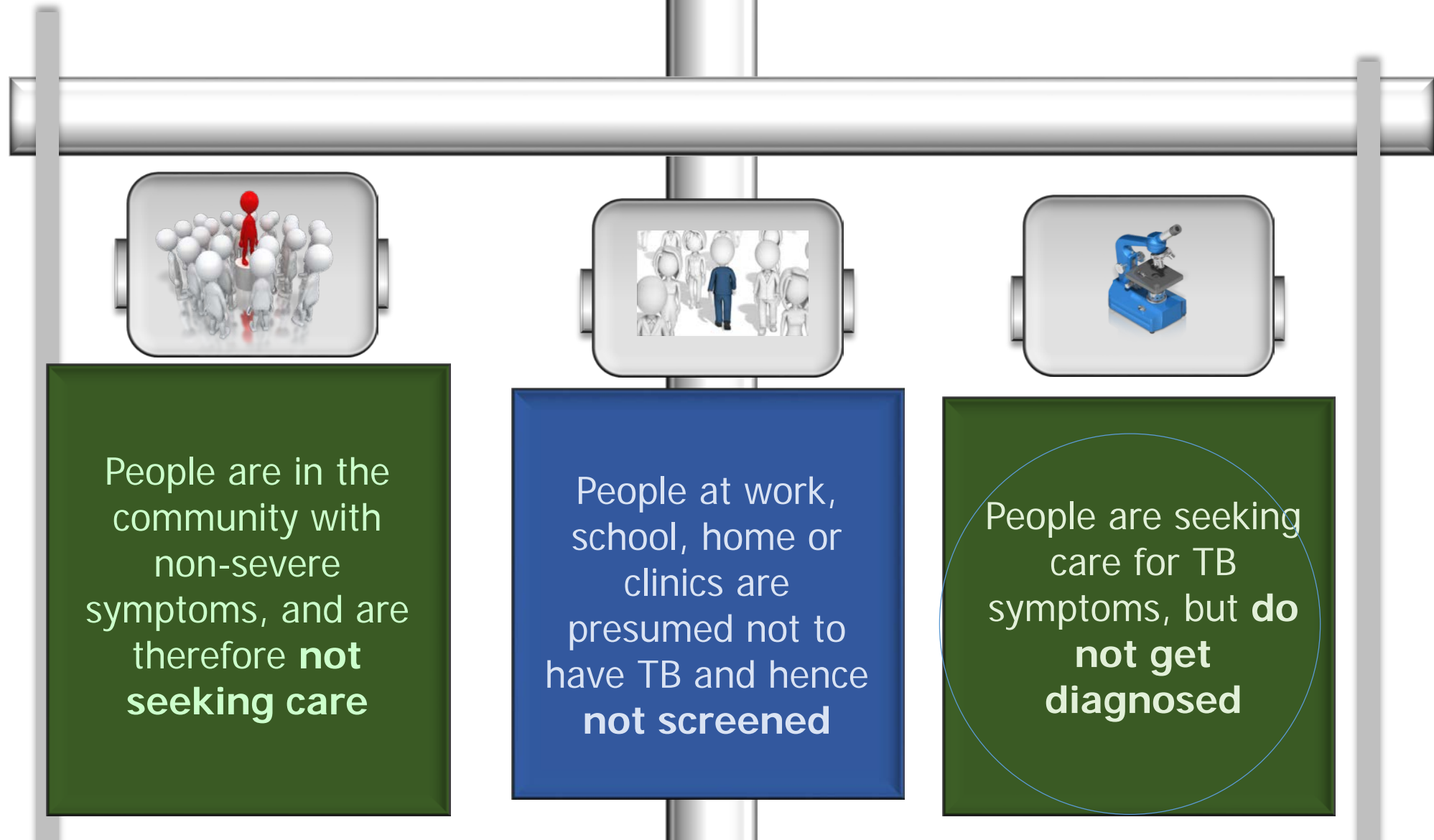
- 1 • **Challenges of TB control in Kenya**
- 2 • **What does TB Patient pathway analysis (PPA) tell us**
- 3 • **How health system responses should be differentiated locally**
- 4 • **Using TB PPA for strategic planning and budgetary decisions**



Kenya TB prevalence survey 2016 findings

- 558 cases /100,000 population
- Equivalent 169,000 TB incident cases in 2016
- TB treatment coverage of 45%

Where are the “Missing” Cases?

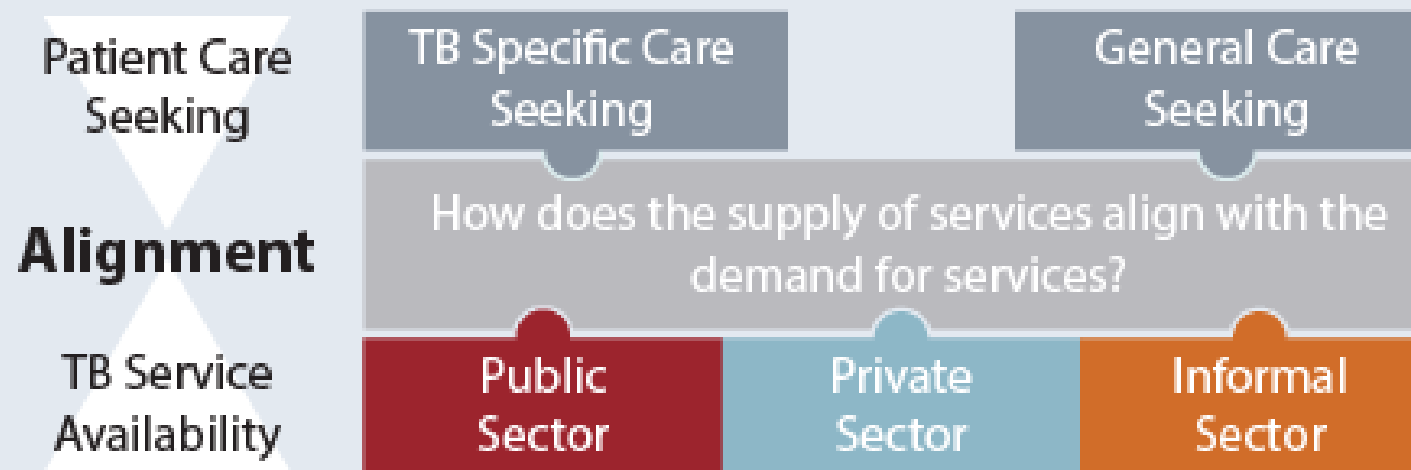


The goal of PPA: Meeting patients where they are

Problem statement: Over 50% of estimated TB patients were not reported in 2016. Yet, people are seeking care for TB symptoms, but do not get diagnosed

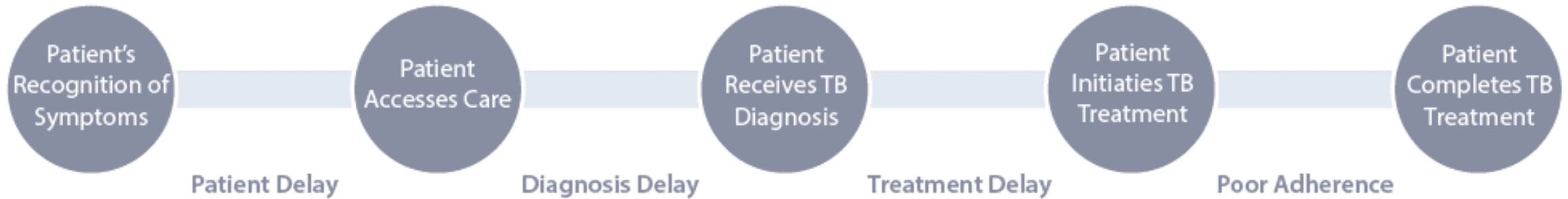
Reaching all TB patients: To reach all patients and avoid delays in diagnosis, treatment, and cure, TB services must be available where patients seek care. Planning patient-centered care will require knowing more about how patients seek care and aligning the delivery of services to patient preferences.

Assessing Alignment



PPA Key Questions

Answers questions regarding care seeking and service availability at each step of a patient's journey through care. It helps better understand the gaps contributing to the thousands of missing TB cases



Key Analysis Questions

- | | | | | |
|--|--|--|--|---|
| <ul style="list-style-type: none">• When people experience TB symptoms, to what extent do they delay care seeking?• When people experience TB symptoms, why do they delay care seeking? | <ul style="list-style-type: none">• Once people with TB symptoms seek care, where do they initiate care seeking? | <ul style="list-style-type: none">• Are quality TB diagnostic services available where people initially seek care?• Where do patients typically receive TB diagnosis? | <ul style="list-style-type: none">• Are quality TB treatment services available where people initially seek care?• Where do patients initiate TB treatment? | <ul style="list-style-type: none">• Once treatment commences, what are the barriers to being cured? |
|--|--|--|--|---|

Number of Facilities

1. Place of Initial Careseeking by People with Possible TB

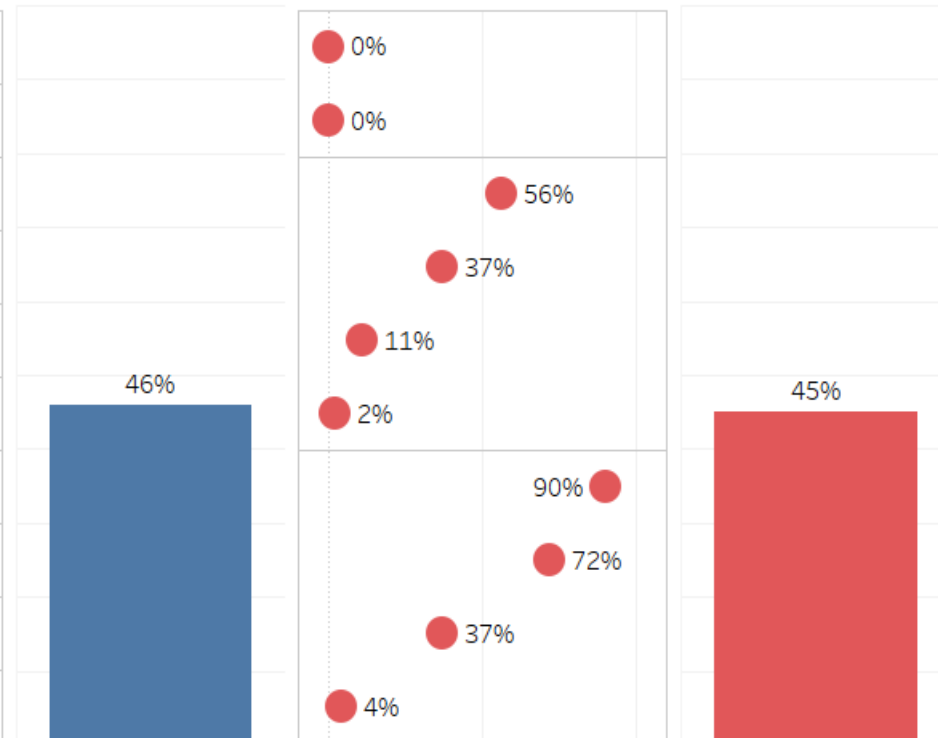
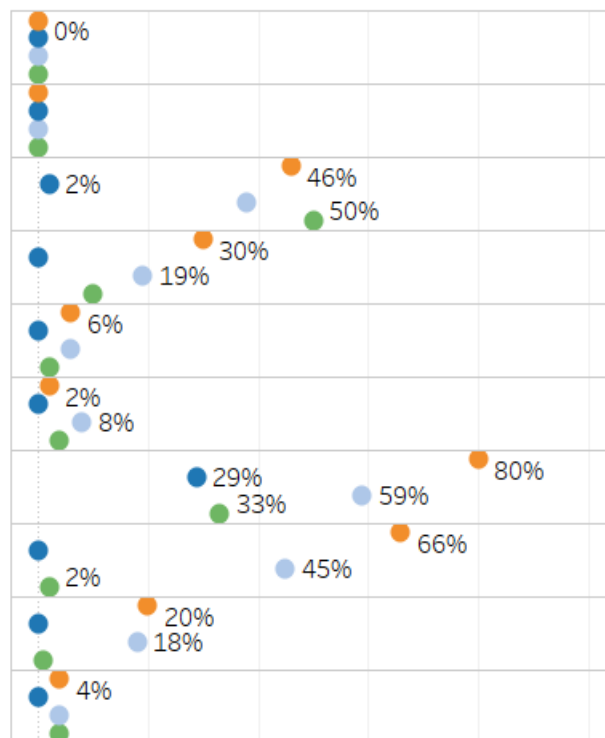
2. Diagnosis Availability at Initial Careseeking

3. Access to Diagnosis at Initial Careseeking

4. Treatment Availability at Initial Careseeking

5. Access to Treatment at Initial Careseeking

Sector	Level				
Informal Private	Level 2	?	14%		
	Level 1		1%		
Formal Private	Level 4	272	9%		
	Level 3	600	3%		
	Level 2	4,316	5%		
	Level 1	158	10%		
Public	Level 4	308	16%		
	Level 3	893	15%		
	Level 2	3,332	27%		
	Level 1	24	0%		



1. Careseeking Data Source: 2013 HHEUS
N. careseekers sampled nationally: 5,521
Excludes Garissa, Mandera, & Wajir Counties

2. Diagnosis Data Sources:
2016 NTP Lab Records (Microscopy)
2016 NTP Xpert Test Records (Xpert & Xpert Referral)
2013 SARAM (Xray)

- Microscopy
- Xpert
- Xpert Referral
- Xray

3 & 5. 27% of careseekers were matched to an exact facility with known diagnostic and treatment availability. The remaining access to diagnosis and treatment was estimated based on the sector and level where the patient sought care.

4. Treatment Data Source: 2013 SARAM. Treatment Available indicates any TB drugs

Bungoma TB Patient Pathway

Number of Facilities

1. Place of Initial Careseeking by People with Possible TB

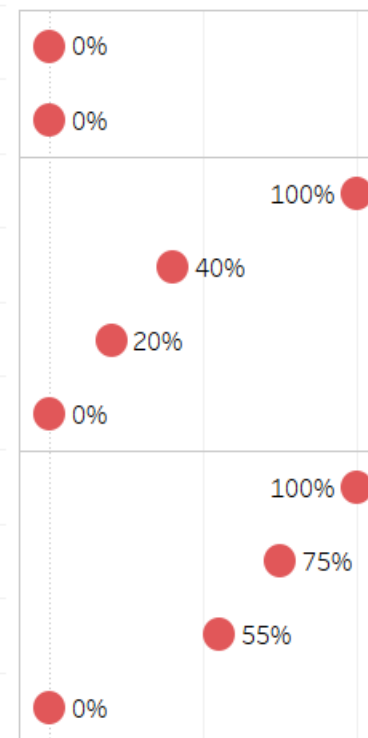
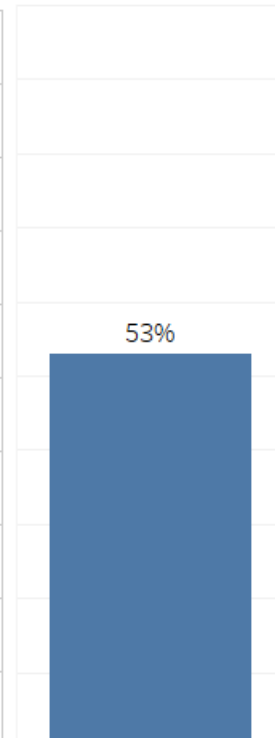
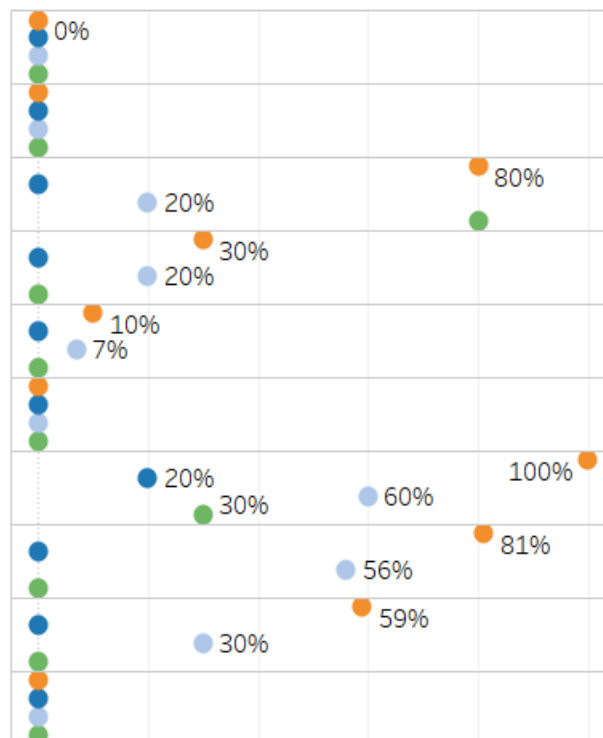
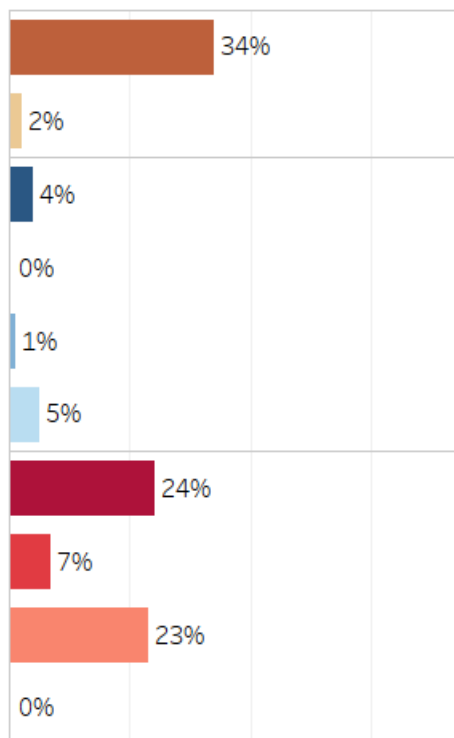
2. Diagnosis Availability at Initial Careseeking

3. Access to Diagnosis at Initial Careseeking

4. Treatment Availability at Initial Careseeking

5. Access to Treatment at Initial Careseeking

Sector	Level	
Informal Private	Level 2	?
	Level 1	
Formal Private	Level 4	5
	Level 3	10
	Level 2	60
	Level 1	2
Public	Level 4	10
	Level 3	16
	Level 2	88
	Level 1	1



Facility Data Source: 2016 Kenya Facility Master List

1. Careseeking Data Source: 2013 HHEUS
N. careseekers sampled in county: 51

2. Diagnosis Data Sources:
2016 NTP Lab Records (Microscopy)
2016 NTP Xpert Test Records (Xpert & Xpert Referral)
2013 SARAM (Xray)

Microscopy
Xpert
Xpert Referral
Xray

3 & 5. 25% of careseekers were matched to an exact facility with known diagnostic and treatment availability. The remaining access to diagnosis and treatment was estimated based on the sector and level where the patient sought care.
4. Treatment Data Source: 2013 SARAM. Treatment Available indicates any TB drugs

Elgeyo Marakwet TB Patient Pathway

Number of Facilities

1. Place of Initial Careseeking by People with Possible TB

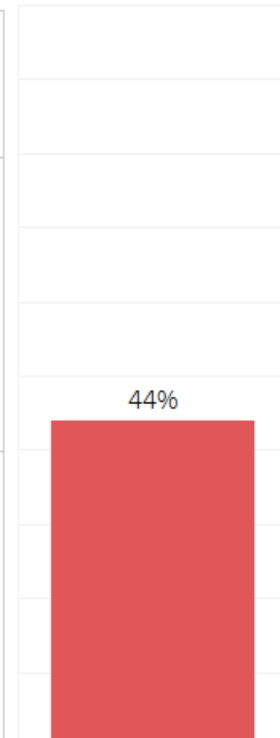
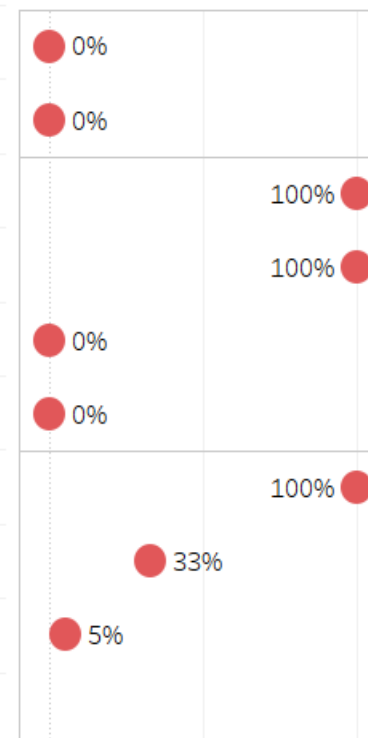
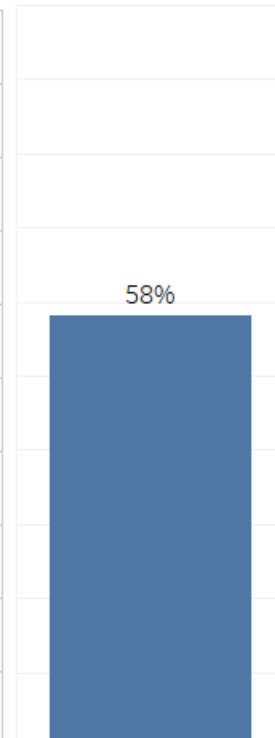
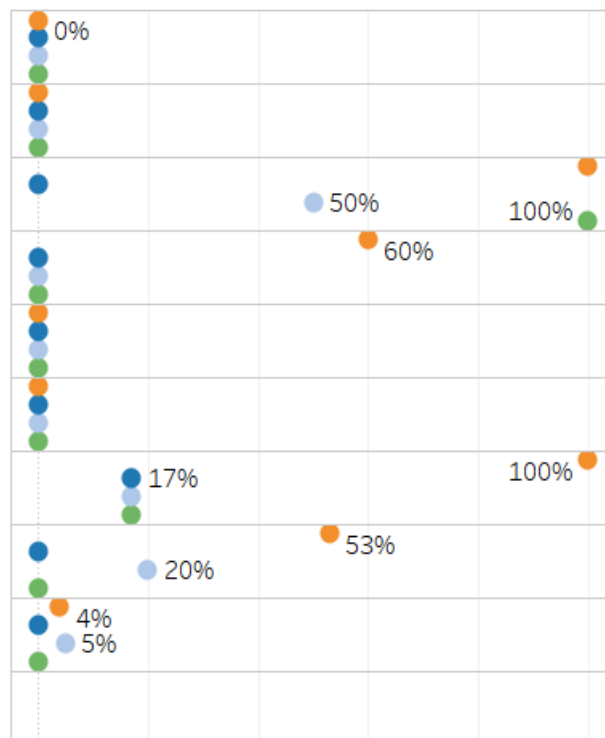
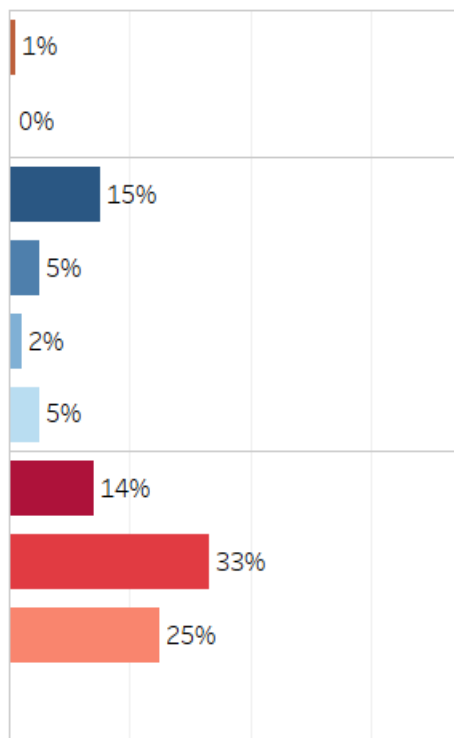
2. Diagnosis Availability at Initial Careseeking

3. Access to Diagnosis at Initial Careseeking

4. Treatment Availability at Initial Careseeking

5. Access to Treatment at Initial Careseeking

Sector	Level	
Informal Private	Level 2	?
	Level 1	
Formal Private	Level 4	2
	Level 3	5
	Level 2	11
	Level 1	0
Public	Level 4	6
	Level 3	15
	Level 2	73
	Level 1	



Facility Data Source: 2016 Kenya Facility Master List

1. Careseeking Data Source: 2013 HHEUS
N. careseekers sampled in county: 120

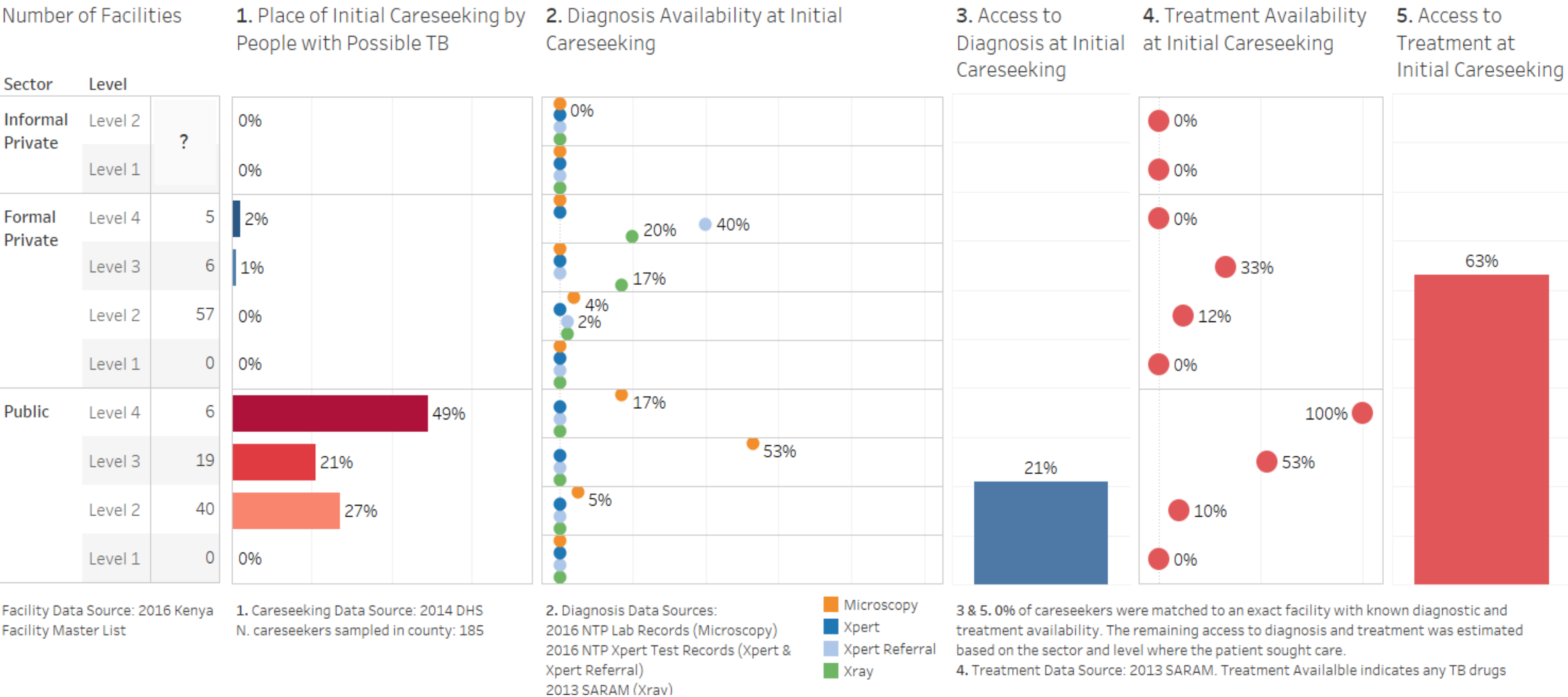
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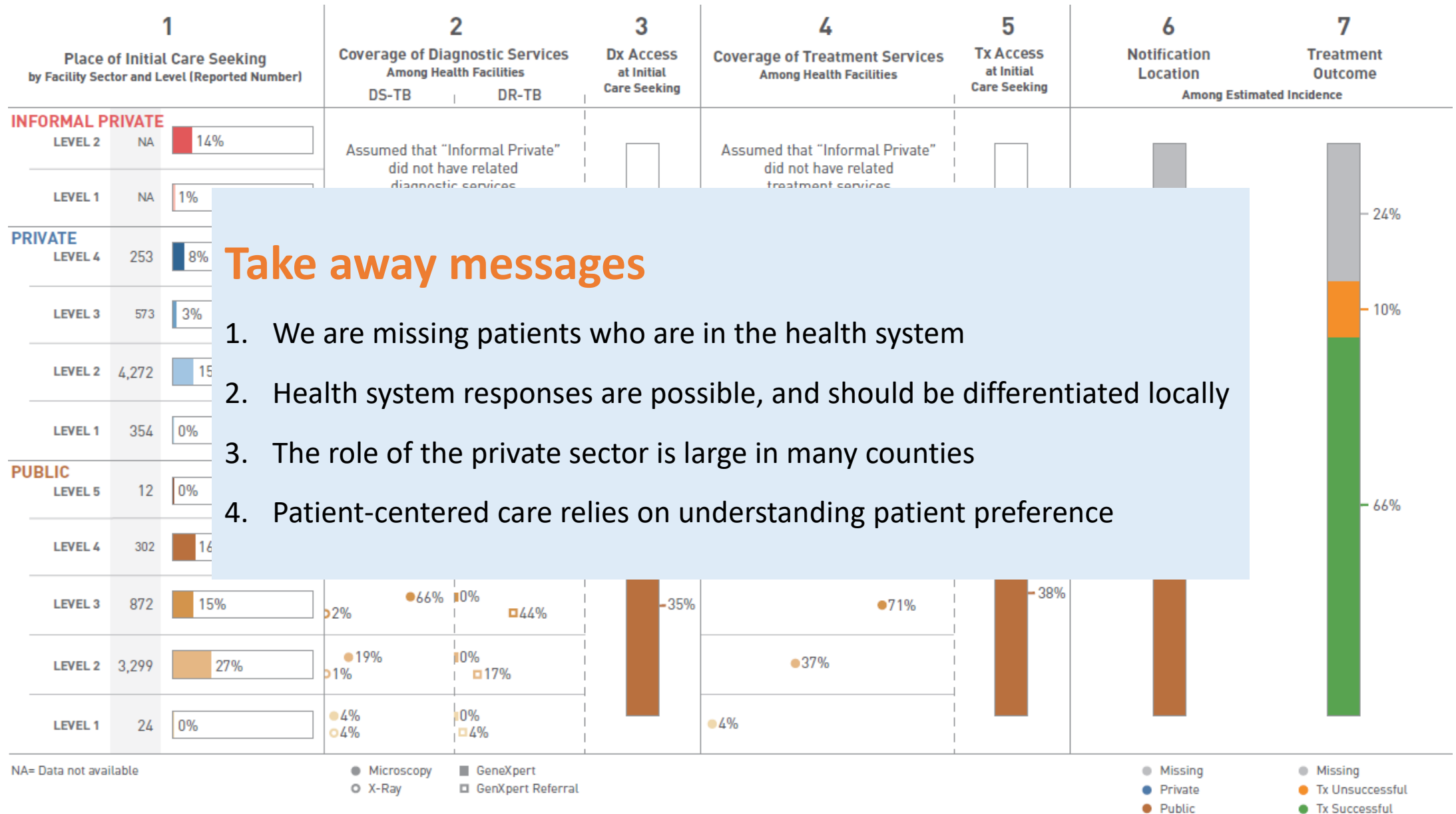
3 & 5. 42% of careseekers were matched to an exact facility with known diagnostic and treatment availability. The remaining access to diagnosis and treatment was estimated based on the sector and level where the patient sought care.

4. Treatment Data Source: 2013 SARAM. Treatment Available indicates any TB drugs

Garissa TB Patient Pathway



Patient Pathway Analysis: Finding the “missing” patients within the health system



Kenyan NTP used PPA to attract and inform GF catalytic funding prioritization

- Identified counties with the biggest mismatches between care-seeking and diagnostic capacity
 - Specimen transport systems to close diagnostic gap
 - Engagement of private sector in TB care
 - Revitalize activities to engage retail pharmacies
- TB county innovation challenge fund
 - County-specific interventions to address local barriers to diagnosis and care

Acknowledgment

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