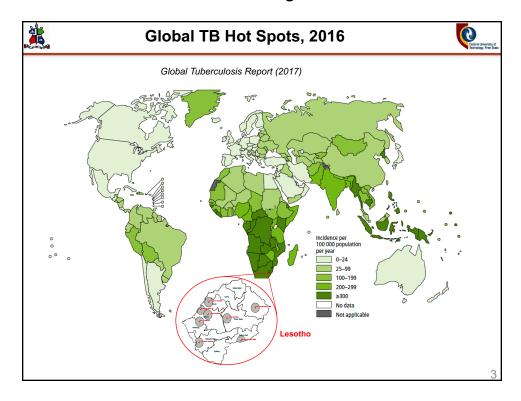
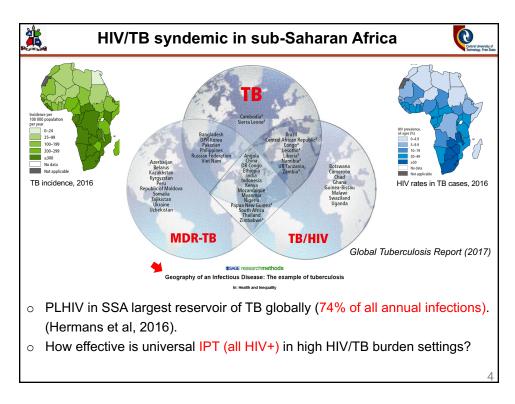
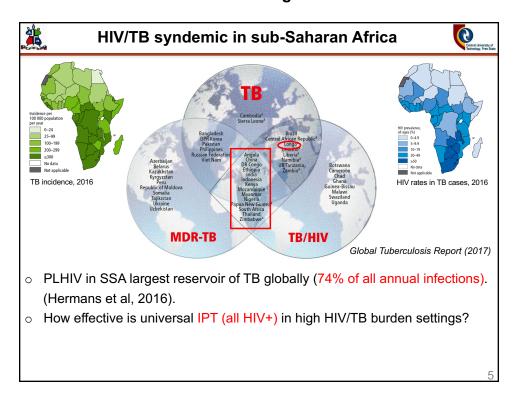
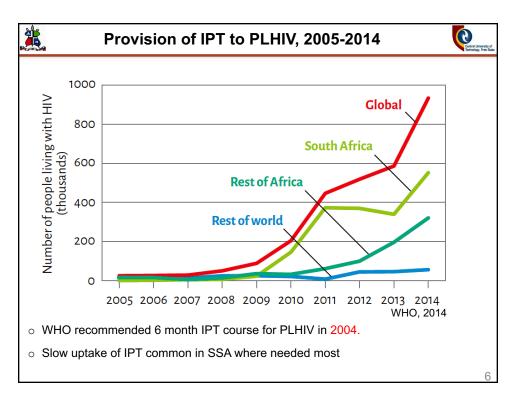


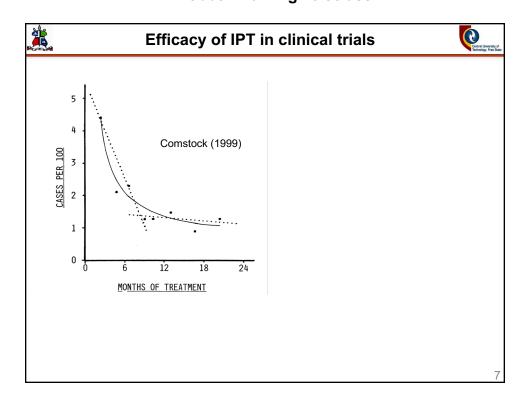
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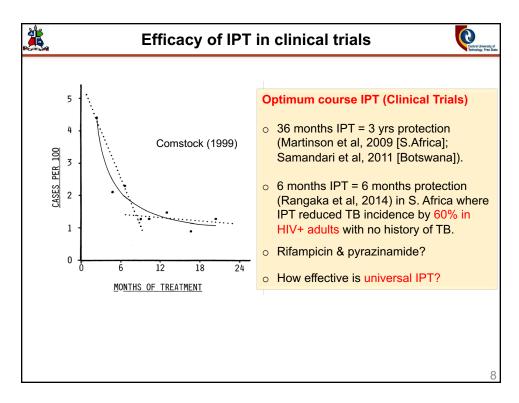




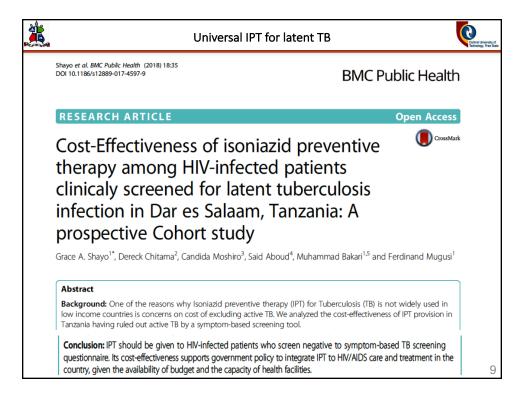


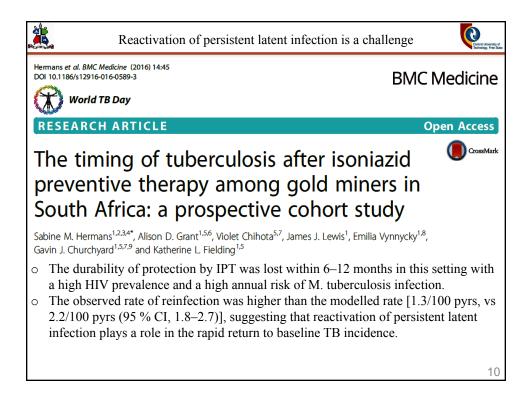


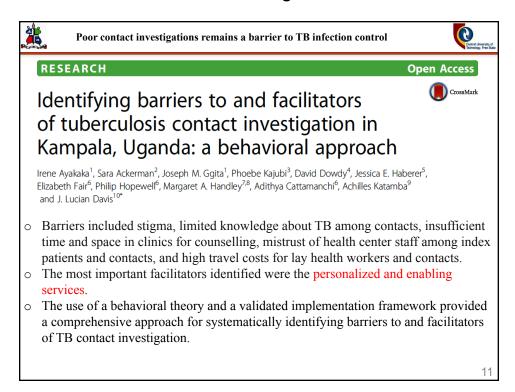


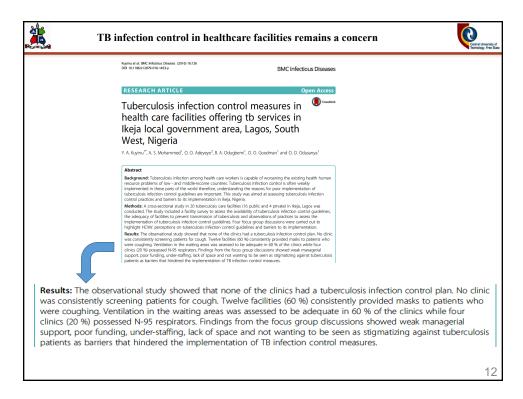


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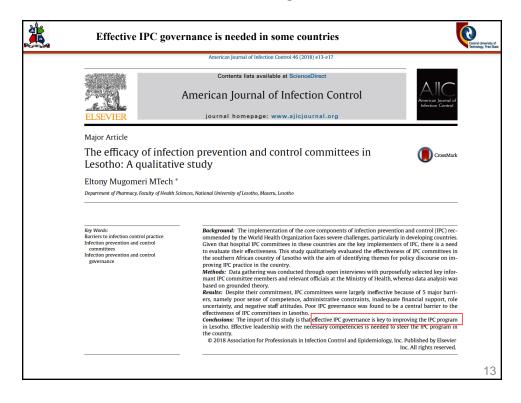


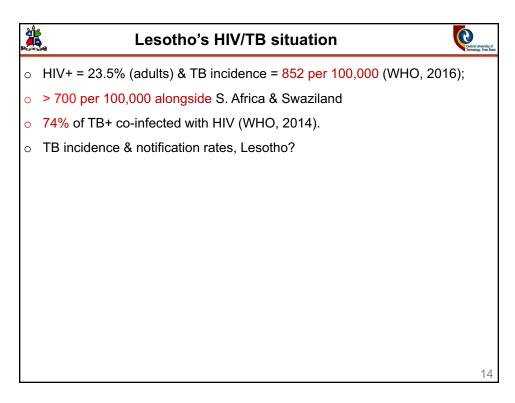


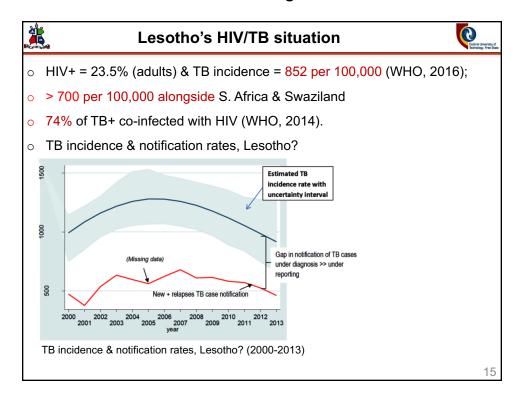


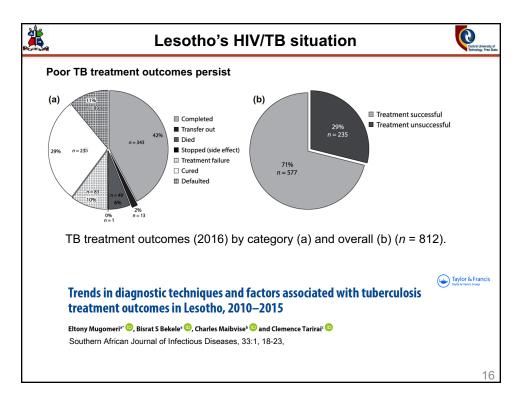


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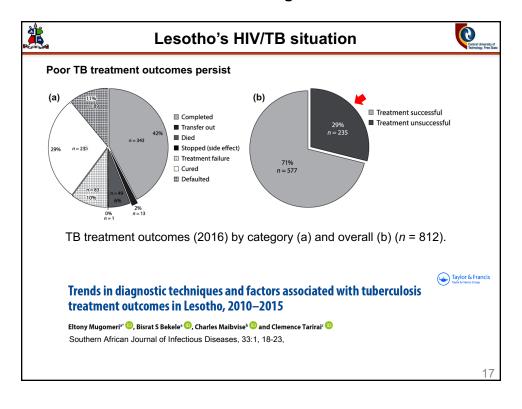


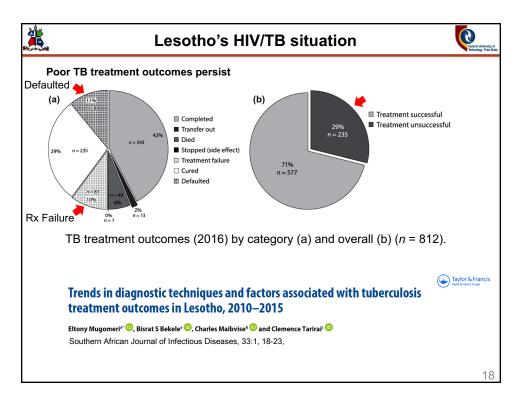




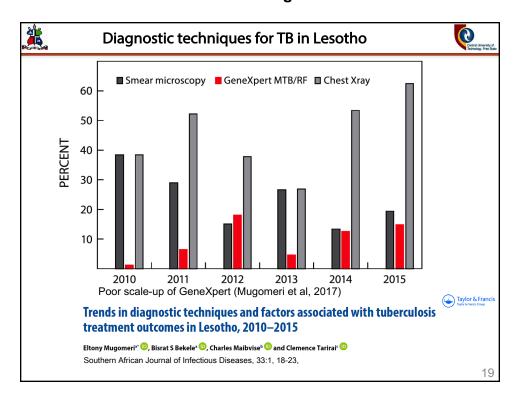


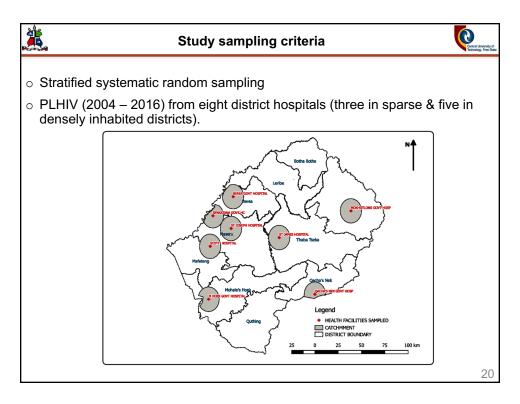
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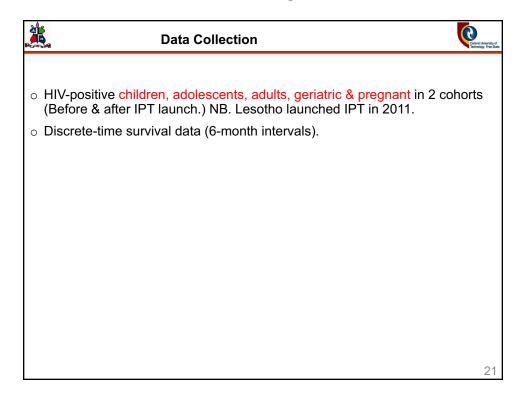


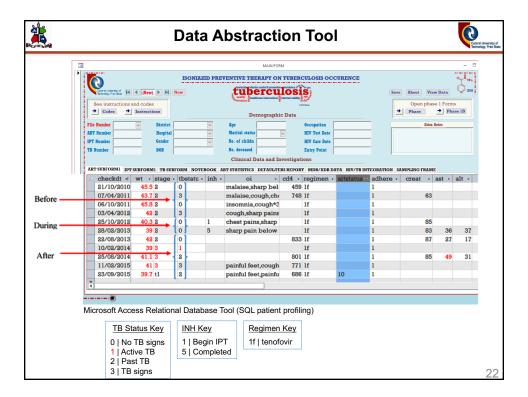
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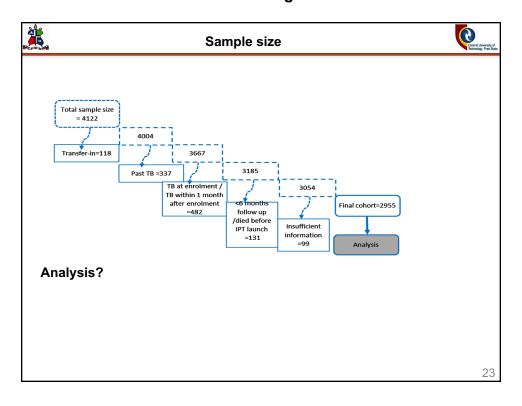


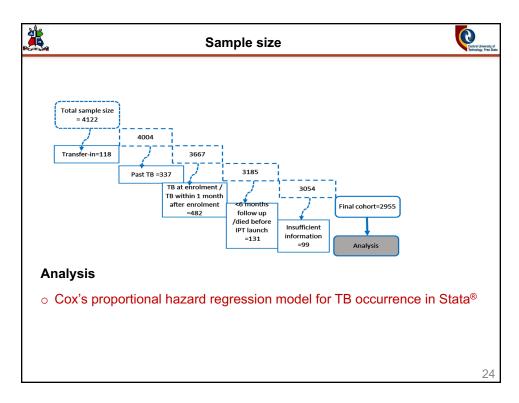
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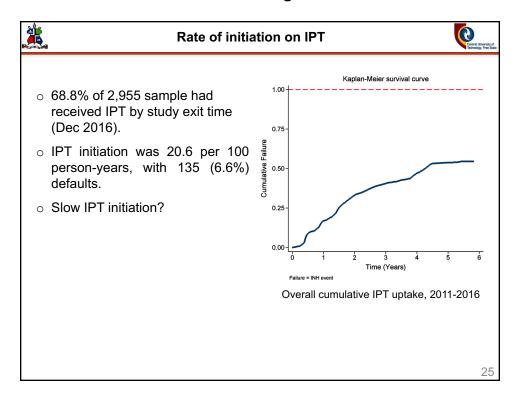


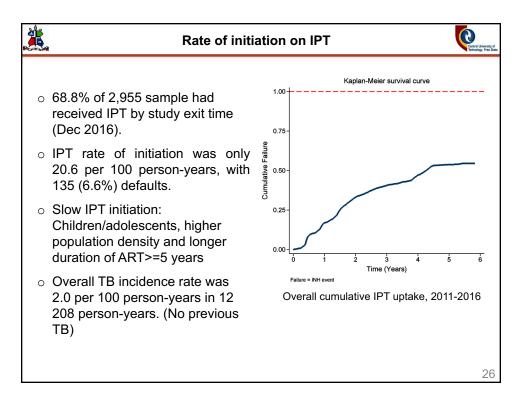
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#### Rate of initiation on IPT



- The rate of IPT implementation remains slow.
- Using national coverage statistics, as is the current practice globally, may be misleading.
- More bioinformatics tools and skills are needed to improve this.
- Currently, data on rate IPT initiation is scarce, with only Brazil reporting such data – the rate of initiation in that country was 20.0 per 100 person-years in 2014 (Dowdy et al., 2014)

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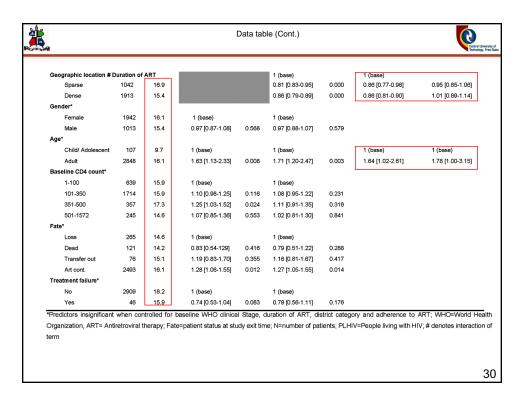
### IPT uptake: sub Saharan Africa overview



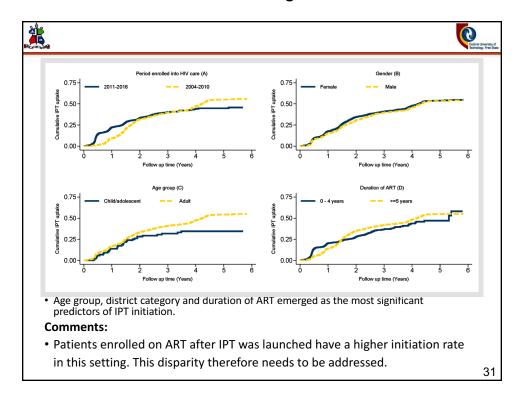
- National coverage for IPT in 15 of the 30 high HIV/TB burden countries ranged from 1% in Swaziland to 53% in South Africa (WHO, 2018).
- Other countries in sub Saharan Africa with IPT coverage higher than 30% include Ethiopia (45%) and Nigeria (39%).
- Sierra Leone (22%), Zambia (18%), Namibia (15%) and Angola (13%). Notably, IPT coverage in many sub Saharan countries, including Botswana, Malawi, Ghana and Uganda, was unknown in 2017 (WHO, 2018)

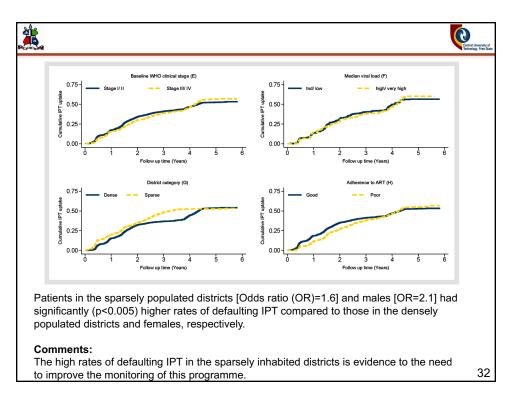
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Predictor		Outcome	Unstratified model				Model stratified by period of enrolmen		
	•		2004-2016				2004-2010 2011-2016		
	Total (N)	Initiation rate per 100 PY	Unadjusted HR (95% CI)	p-value	Adjusted HR (95% CI)	p-value	Adjusted HR (95% CI)	Adjusted HR (95% CI)	
Enrolment period									
2011-2016	1745	27.0	1 (base)		1 (base)				
2004-2010	1210	15.8	0.60 [0.54-0.68]	0.000	0.63 [0.55-0.72]	0.000			
Duration of pre-ART									
<1	2127	20.7	1 (base)		1 (base)				
1-2	269	21.1	1.02 [0.86-1.20]	0.851	1.01 [0.85-1.20]	0.909			
3-5	344	19.2	1.06 [0.91-1.23]	0.491	0.99 [0.85-1.16]	0.905			
>5	215	21.6	0.96 [0.76-1.20]	0.706	0.84 [0.66-1.06]	0.137			
Baseline WHO stage									
1	1049	24.4	1 (base)		1 (base)				
II	1219	18.7	0.81 [0.72-0.91]	0.000	0.87 [0.77-0.98]	0.023			
III	516	19.6	0.83 [0.72-0.96]	0.011	0.92 [0.79-1.06]	0.255			
IV	171	19.1	0.88 [0.68-1.13]	0.333	0.92 [0.72-1.19]	0.538			
Adherence									
Good	2219	21.7	1 (base)		1 (base)				
Poor	615	17.5	0.96 [0.85-1.07]	0.432	0.96 [0.85-1.07]	0.462			
District category									
Sparse	1042	16.9	1 (base)		1 (base)		1 (base)	1 (base)	
Dense	1913	15.4	0.77 [0.69-0.86]	0.000	0.58 [0.42-0.78]	0.000	1.03 (0.46-2.30)	0.59 [0.38-0.94]	
Duration on ART*									
0-4	1454	16.0	1 (base)		1 (base)		1 (base)		
>=5	1501	15.8	0.76 [0.67-0.86]	0.000	1.40 [1.16-1.70]	0.001	3.34 [2.06-5.43]	1.33 [1.00-1.76]	

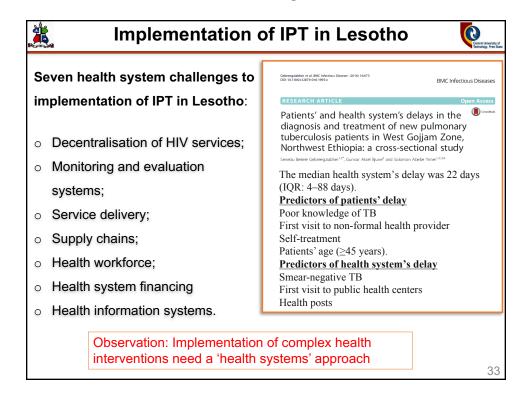


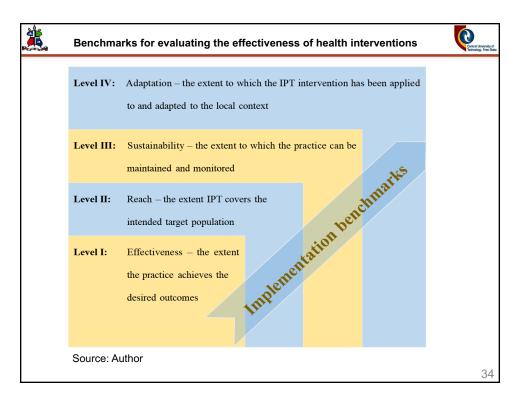
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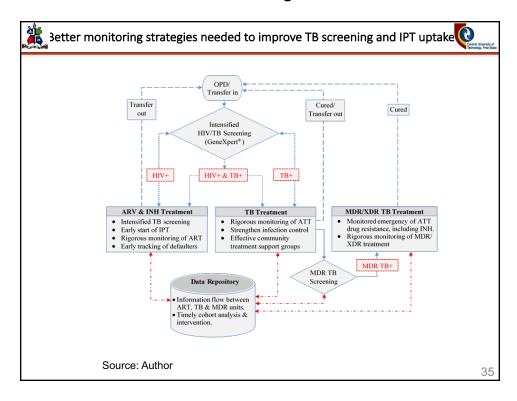


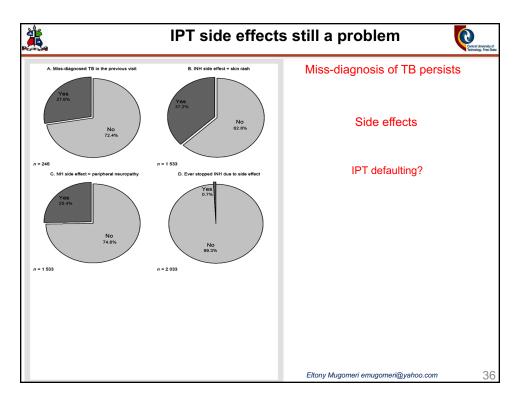
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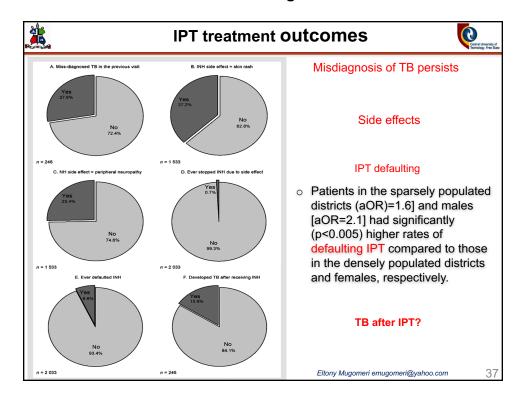


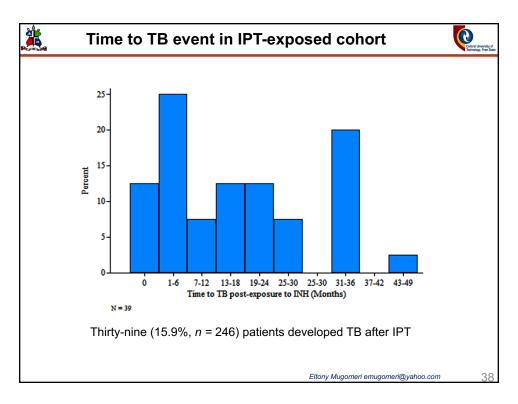
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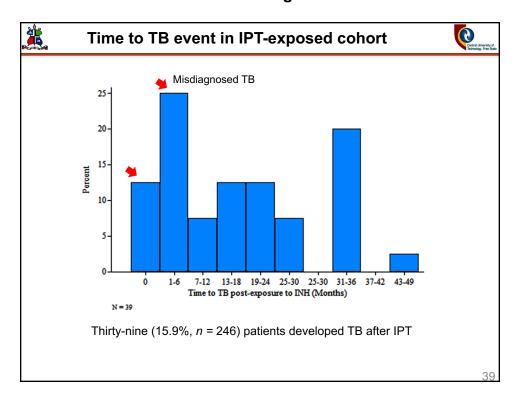


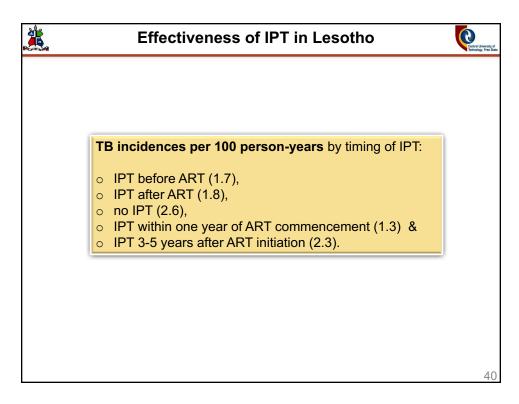
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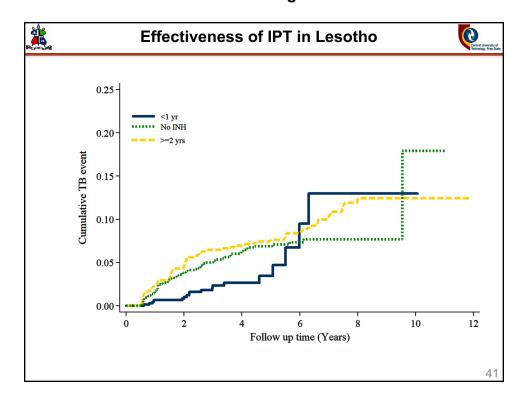


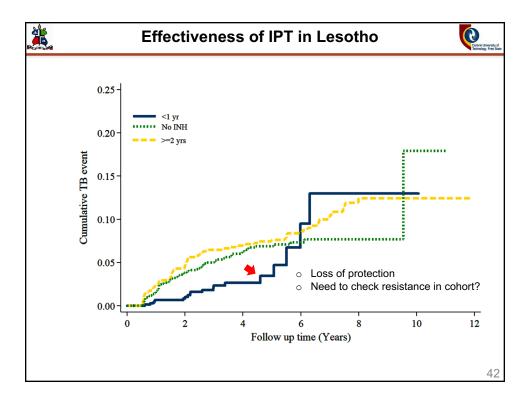
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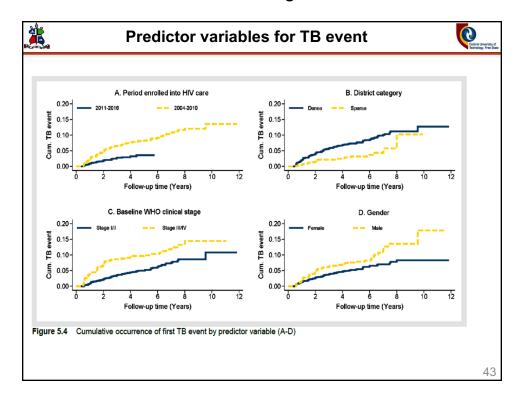


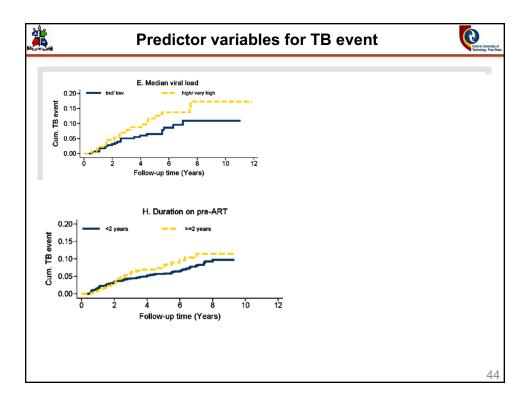
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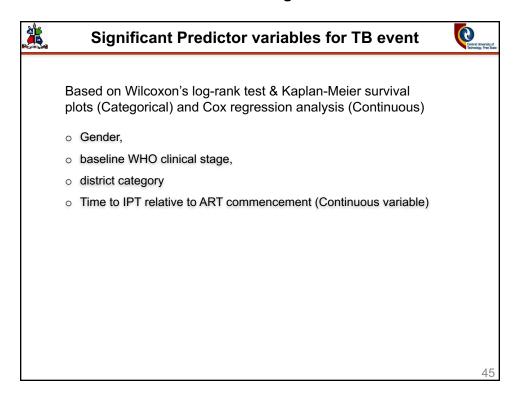


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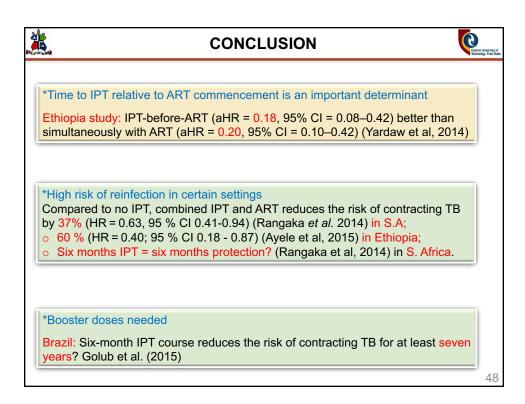


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Predictor  Total  (n)	Outcome		Unstratific 2004-	Model stratified b 2004-2010	y period of enrolmen 2011-2016			
		TB incidence per 100 PY	Unadjusted HR (95% CI)	p-value	Adjusted HR (95% CI)	p- value	Adjusted HR (95% CI)	Adjusted HR (95% CI)
Enrolment period								
2011-2016	1 745	1.6	1 (base)		1 (base)			
2004-2010	1 210	2.3	2.37 (1.77-3.17)	36.5; 0.000	1.53 (0.98-2.41)	0.064		
Time to IPT/ART	2 955	2.0	1.18 (1.08-1.27)	15.5; 0.000	1.20 (1.07-1.36)	0.024	1.06 (0.88-1.25)	1.59 (1.01-2.50)
Baseline WHO sta	ge							
1	1 049	0.9	1 (base)		1 (base)		1 (base)	1 (base)
II	1 219	1.6	1.95 (1.31-2.90)	0.007	2.62 (1.53-4.46)	0.000	1.82 (0.73-4.54)	3.61 (1.67-7.80)
III	516	4.2	5.17 (3.50-7.64)	0.000	17.12 (10.75-	0.000	8.09 (3.57-	26.01 (13.27-
					27.28)		18.30)	51.02)
IV	171	2.1	2.21 (1.12-4.38)	0.851	9.50 (4.98-18.13)	0.000	6.05 (1.82- 20.06)	9.72 (3.75-25.21)
Gender								
Female	1 942	1.6	1 (base)		1 (base)		1 (base)	1 (base)
Male	1 013	2.9	1.84 (1.43-2.36)	0.004	1.54 (1.34-1.79)	0.000	1.64 (1.35-1.98)	1.42 (1.14-1.77)
District population	density							
Sparse	1 042	1.2	1 (base)		1 (base)		1 (base)	1 (base)
Dense	1 913	2.3	2.06 (1.49-2.86)	0.000	1.25 (1.04-1.52)	0.021	1.42 (1.06-1.92)	1.11 (0.86-1.44)

Predictor		Outcome		Unstratific 2004-			Model stratified b 2004-2010	y period of enrolmer 2011-2016
	Total (n)	TB incidence per 100 PY	Unadjusted HR (95% CI)	p-value	Adjusted HR (95% CI)	p- value	Adjusted HR (95% CI)	Adjusted HR (95% CI)
Enrolment period								
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February 13, 2019	(South Pacific Teleclass) THE INTRODUCTION OF RISK-BASED ASSESSMENT FOR THE MANAGEMENT OF ESBL-E PATIENTS IN ACUTE CARE Speaker: Julianne Munro, Clinical Nurse Specialist, Infection Prevention & Control, Canterbury District Health Board, New Zealand
February 14, 2019	(FREE Teleclass) THE FALLOUT OF FAKE NEWS IN INFECTION PREVENTION, AND WHY CONTEXT MATTERS Speaker: Prof. Didier Pittet, University of Geneva Hospitals, and Dr. Pierre Parneix, Höpital Pellegrin, CHU de Bordeaux, France
February 21, 2019	COLLABORATIVE CLINICAL RESEARCH TO REDUCE INFECTIONS  Speaker: Prof. Elaine Larson, Columbia University, Mailman School of Public Health
March 7, 2019	GOING BEYOND THE 5 MOMENTS  Speaker: Prof. Colin D. Furness, University of Toronto
March 21, 2019	INFLUENZA AND VIRAL PNEUMONIA Speaker: Prof. Rodrigo Cavallazzi, University of Louisville
March 26, 2019	(European Teleclass)  TAMING THE BUGS: CONTAMINATION AND INNOVATIVE APPROACHES TO STETHOSCOPE DISINFECTION

