

## New diagnostics and MDR TB notification



	2011/12 vs 2010/11 % change	2012/13 vs 2010/11 % change
All SS+ notifications	-1.8	-4.3
SS- notifications	-16.0	-22.4
Xpert+ patients reported as SS-	—	—
Bacteriologically positive notifications	+8.6	+21.9
Bacteriologically negative notifications	-36.2	-73.6
All pulmonary TB notifications	-6.6	-10.4
MDR-TB notifications	+73.1	+123.1



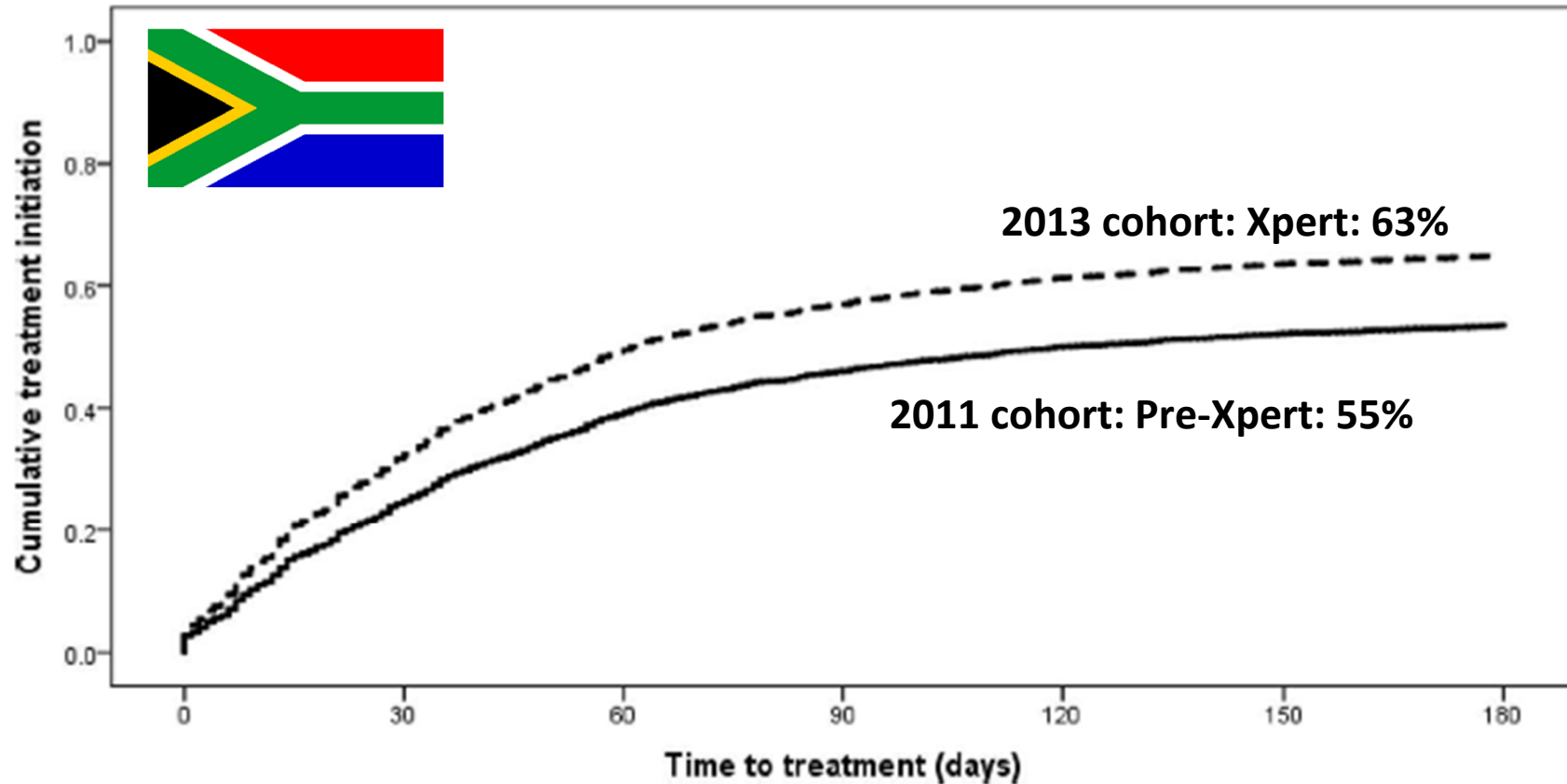
South Africa: likelihood of being diagnosed with MDR-TB was **1.42** times higher in the Xpert group than in the smear/culture group



India: **5-times** increase in the proportion of MDR diagnosis among TB patients

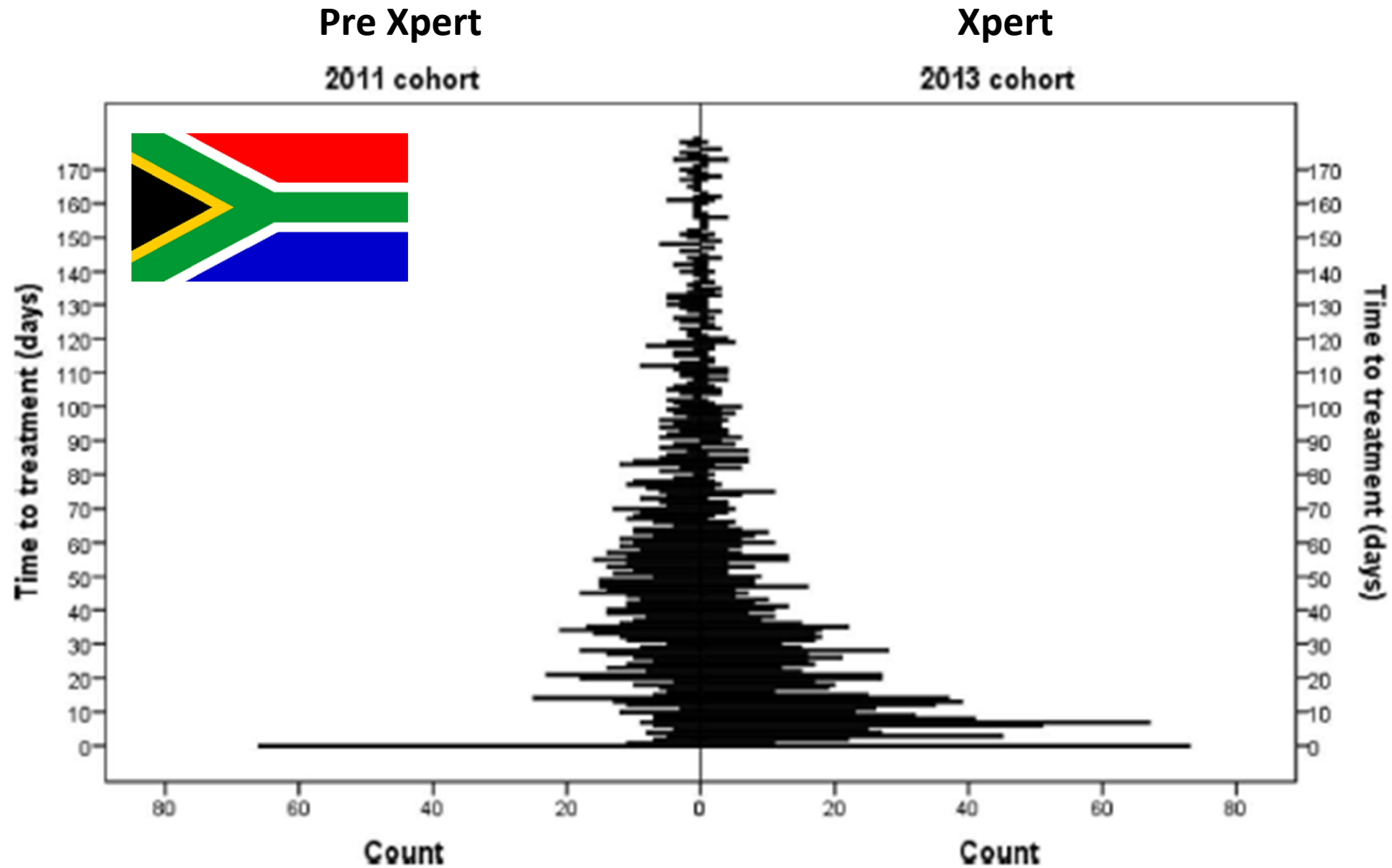
Ceswell 2015  
Naidoo 2017  
Sachdeva 2015

# New diagnostics and pretreatment loss to follow-up for MDR patients



Increased HR (**3.98** 95%CI 1.58-9.99) of death pre-treatment for patients diagnosed with phenotypic DST compared to Xpert

# New diagnostics and time to MDR TB treatment



South Africa: Median time to MDR treatment initiation **44** days (IQR 20-69) pre Xpert and **22** days (IQR 2-43) post Xpert

# Summary

- Evidence of impact of active case finding on transmission limited
- No evidence of increased case detection overall, but increased case detection of MDR TB
- Some evidence of reduction in time to treatment initiation and pre-treatment loss to follow-up among patients with TB
- Significant reduction in time to treatment initiation and pre-treatment loss to follow-up among patient with MDR TB

**THANK YOU**

