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#### **Background and Objective**

- The effectiveness of tuberculosis (TB) control  $\bullet$ programmes depends critically on patients completing appropriate treatment.
- This study aimed to outline the cure and discontinuation ulletrates of patients enrolled in the Pernambuco Tuberculosis Control Programme (PECT), based on dispensing data.

## Setting and Methods

Study was conducted in three sites in Recife, state of Pernambuco, Brazil.







# **Results**

## Rates for cure SITE A SITE B SITE C HOSPITAL 31.0 % 23.6 % 35.9 % Rates for treatment discontinuation SITE A SITE B SITE C iclini SPITAL

8 general practice units + 1 polyclinic

1 hospital for medium-complexity patients

1 hospital for high-complexity patients

#### SITE B SITE A

SITE C

- Data were collected between 07-11/2014, through reports from the stock management software for public pharmacies (HORUS) for PECT outpatients (n=948; 232, 348 and 368 in sites A, B and C, respectively)
- "Cure" was defined by the software as medicines collection for three, six or nine consecutive months without interruption, depending on the treatment scheme.
- "Discontinuation" was defined as a non-sequential collection of medicines or treatment interruption for two consecutive months or more.
- Patients were assigned an "undetermined" status if treatment was ongoing. Qui-squared test, Fisher's exact test and bootstrap analysis were performed with R statistical computing. Ethical approval was granted.

- 27.8 % 9.0 % 3.4%
  - Discontinuation rates were significantly different among the sites A, B and C (p < 0.05).
  - Bootstrap analysis showed that the overall the proportion of patients with an "undetermined" status in each site did not significantly change these differences.

#### Conclusions

Only site A had an acceptable discontinuation rate, in light of the World Health Organization recommendations.

### Main Outcome Measures

Cure and discontinuation rates for PECT outpatients.

- Pharmacists could use dispensing data to signal lacksquareTB patients at-risk of discontinuation, and subsequently tailor interventions addressing its causes
- Site B had the greater number of patients which ulletdiscontinued treatment. Patients co-infected with TB and HIV are firstly referred to this site, which may explain this finding.
- Our findings suggest the need of more intensive interventions in patients co-infected with TB and HIV, such as pharmaceutical care programmes.

45th ESCP Symposium on Clinical Pharmacy | Oslo 2016