Multi-drug Resistant Tuberculosis and its predictors among patients attending Directly
Observed Treatment short-course Clinic in Lagos State University Teaching
Hospital, Ikeja, Lagos, Nigeria: A Secondary Data Analysis 2018-2022
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Main Findings

Prevalence of DR-TB was 6.5%

The DR-TB prevalence decreased from 2018 to 2019 and then increased from 2019 to 2022

DR-TB patients with HIV were 8(23.5%)

No predictor of DR-TB was found

Nigeria ranked 1<sup>st</sup> in Africa and 6<sup>th</sup> among the high MDR-TB burden
National MDR-TB burden is estimated at 21,000 annually
Untreated or improperly treated patients contribute to the transmission of resistant strains

## METHODS

**BACKGROUND** 

Study design: A retrospective review of presumptive TB register of patients screened for Mycobacterium tuberculosis(MTB) and MDR-TB using gene Xpert

Study population/MDR-TB patients attending DOTS clinic in LASUTH, Ikeja Calculated Sample size: 275

Sample size used for the study: 520
Sampling technique: Purposive
Study period: 3 months

Data collection: Secondary data from presumptive TB register

Outcome variables: Prevalence of RR-TB, Trend of the RR-TB over 5 years period, Predictors of RR-TB

Data Analysis: SPSS version 27 and Microsoft Excel 2016
Univariate analysis was done for categorical variables using frequencies

and proportions.

Bivariate analysis was done using chi
square and Fisher Exact tests to show an
association between dependent and

A P value less than 0.05 was considered to be statistically significant.

independent variables.

## RESULTS

Median age of the patients was 36(22-47)years About one-quarter of the patients 9(26.5%) were in the age group 30-39 years Majority 19(55.9%) were females The highest number of cases were from Ikeja LGA 7(20%) The lowest number of cases came from 5LGAs,1(3%)-Apapa, Badagry, Isolo, Kosofe, Lagos Island Prevalence of DR-TB was 6.5% The DR-TB prevalence decreased from 2018 to 2019 and then increased from 2019 to 2022 DR-TB patients with HIV were 8(23.5%)

No predictor of DR-TB was found

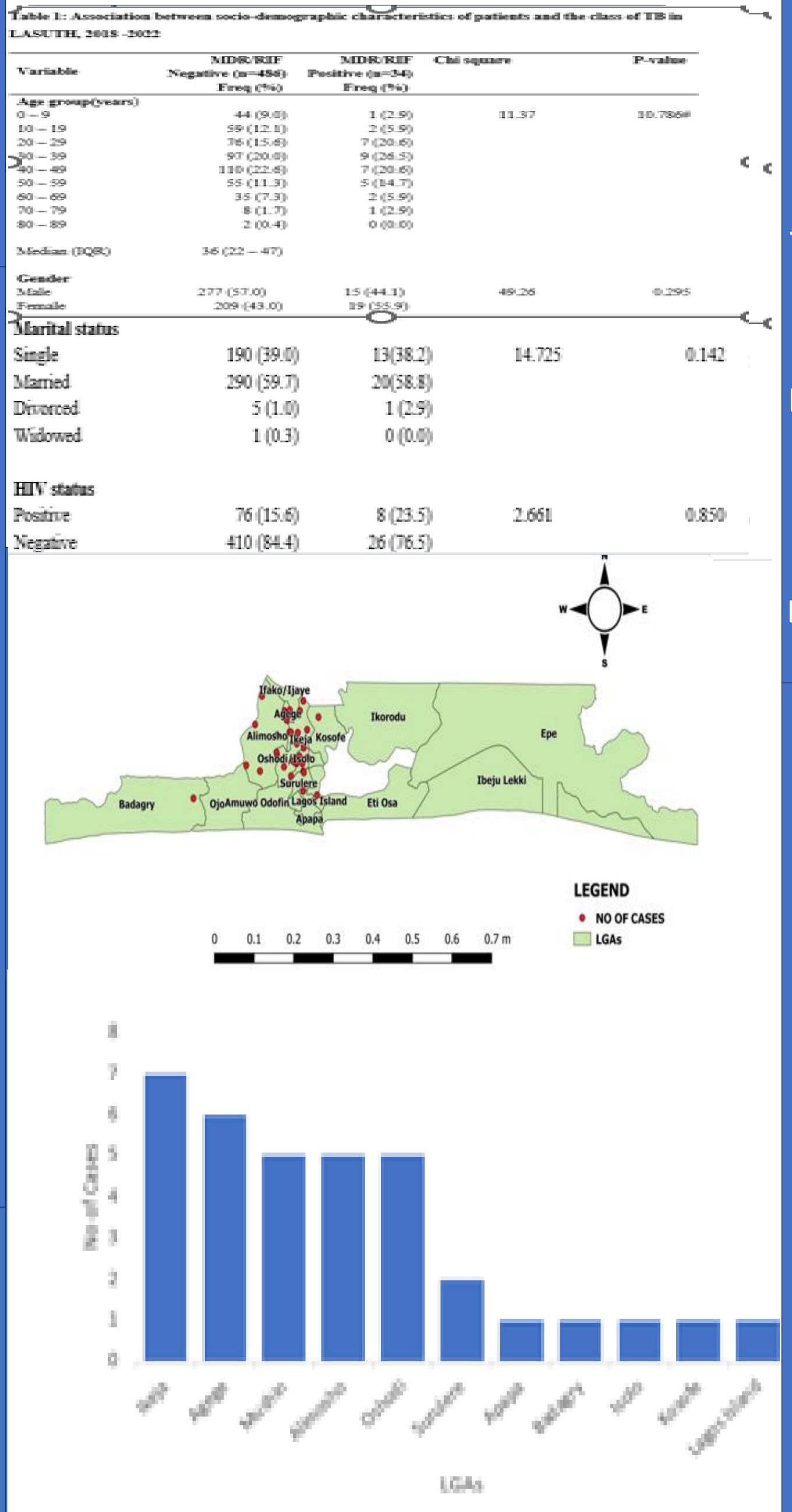
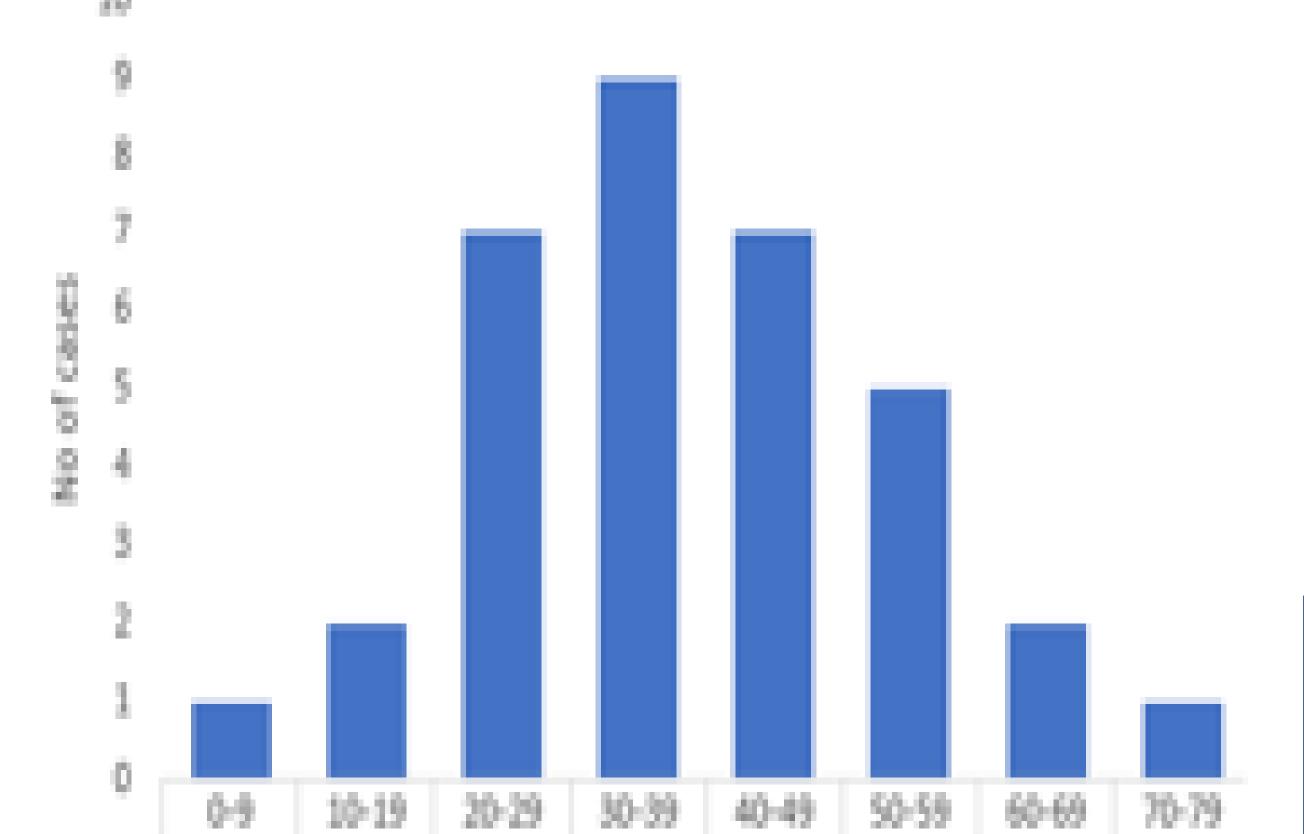


Fig 2. Distribution of RR-TB cases across the LGAs in Lagos State, 2018-2022



## CONCLUSIONS

Prevalence of DR-TB was relatively low. The overall prevalence showed upward trend in the last four years under review.

The finding from this study supports the fact that the prevalence of drug-resistant TB is still relatively lower compared to that of drug-susceptible TB. The study shows the increase in trend of the prevalence in the last four year under review due to COVID-19 pandemic which was prioritized over TB management. Adequate surveillance and preventive/control measures should be put in place during any pandemic so as to prevent increase in prevalence of MTB/MDR TB and other priority diseases.

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interest
statement
The authors
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