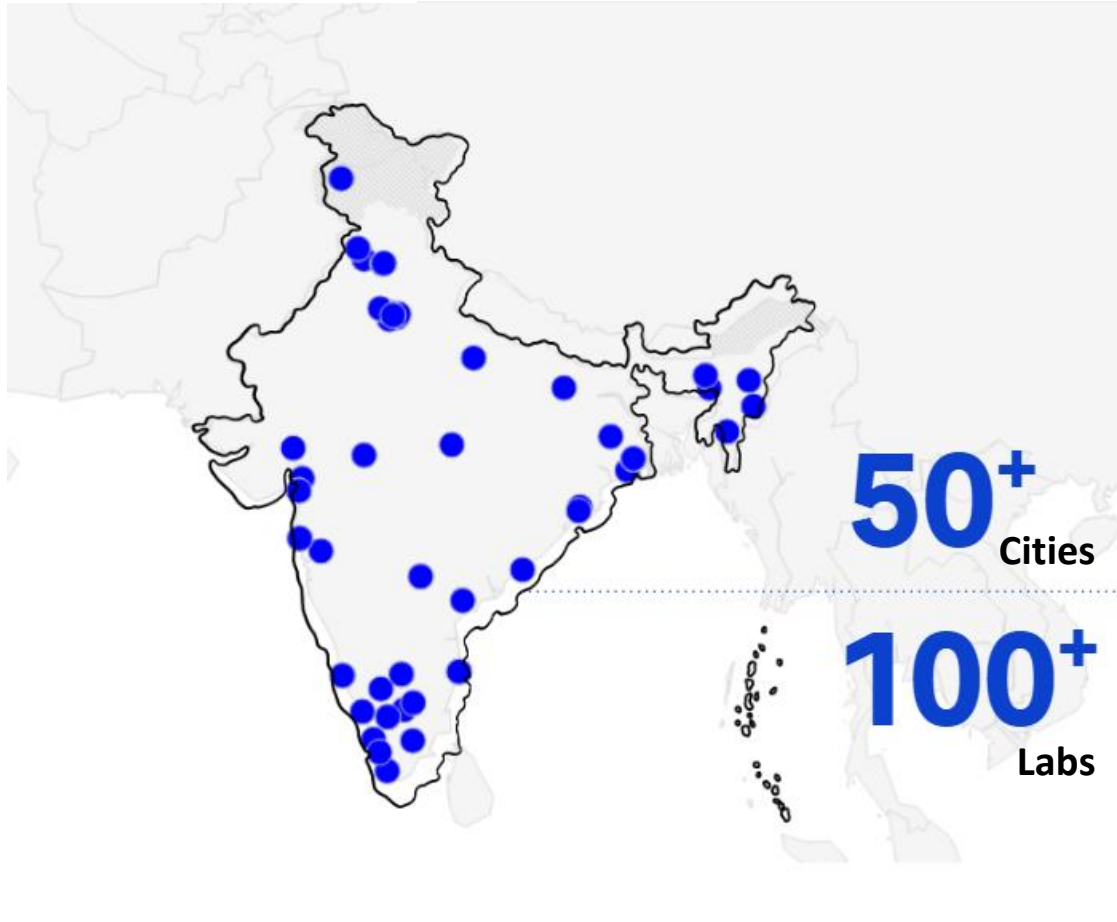


# Applying Indian Benchmarks in Clinical Chemistry

## *A Continuous Improvement Journey*

Dr Richard Rumnong  
Lead – Healthcare consulting  
Roche Diagnostics



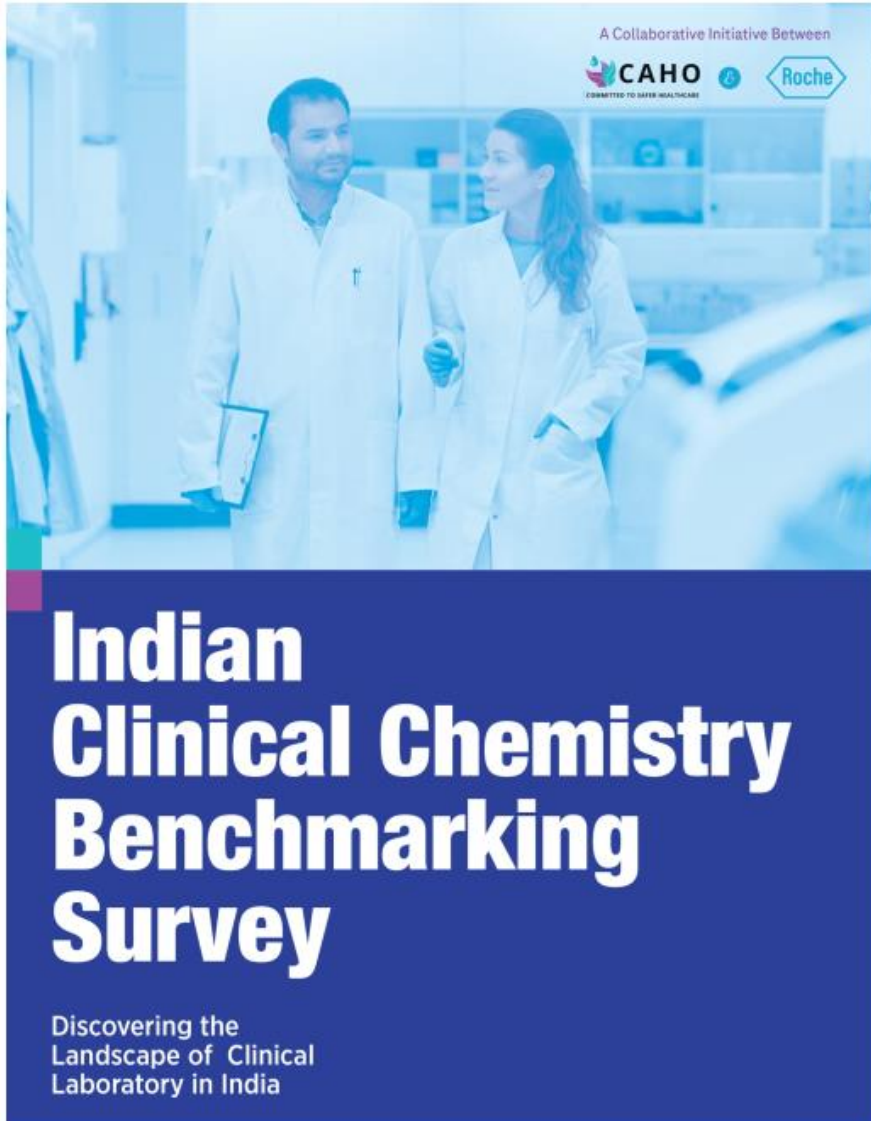
# Indian Clinical Chemistry Benchmarking Survey



Lab Insights

March 2023

# Indian Clinical Chemistry Benchmarking Survey



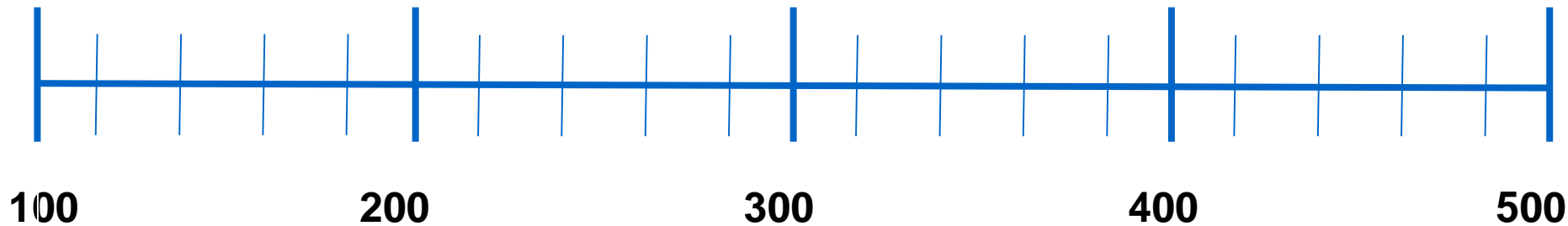
Scan to download White paper



# A Short Benchmarking exercise

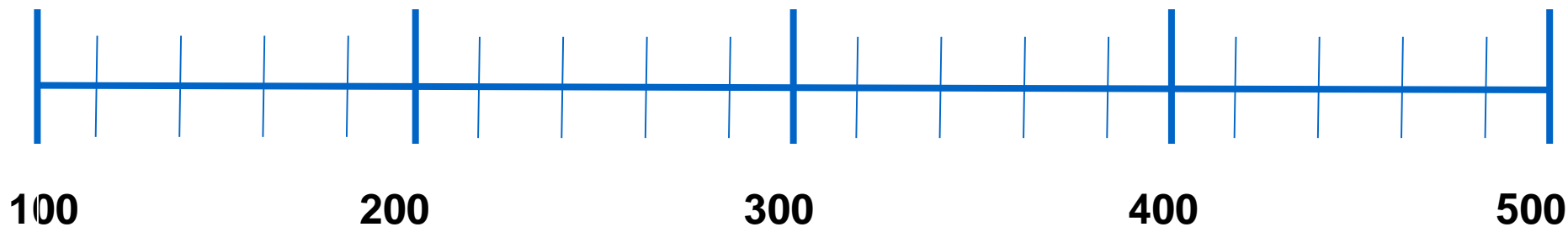
**Target TAT  
(Biochem)**

*Minutes* →



**Target TAT  
(Immunoassay )**

*Minutes* →



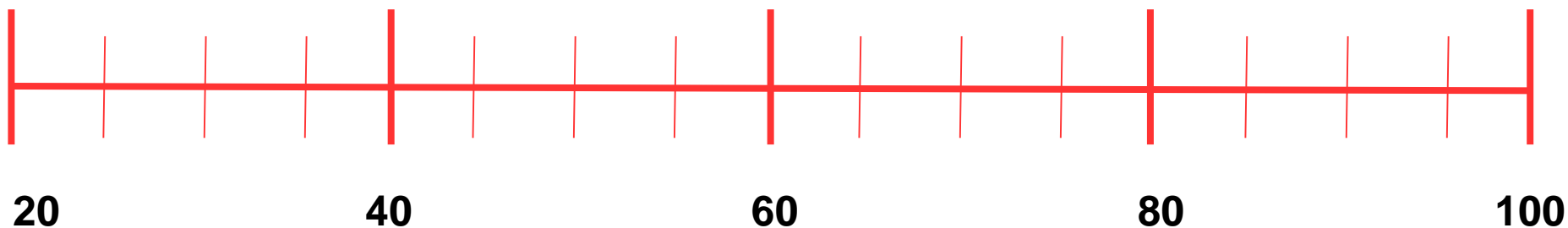
60 mins - 1  
hr

120 mins - 2  
hr

180 mins - 3  
hr

**Target sTAT  
(Biochem)**

*Minutes* →

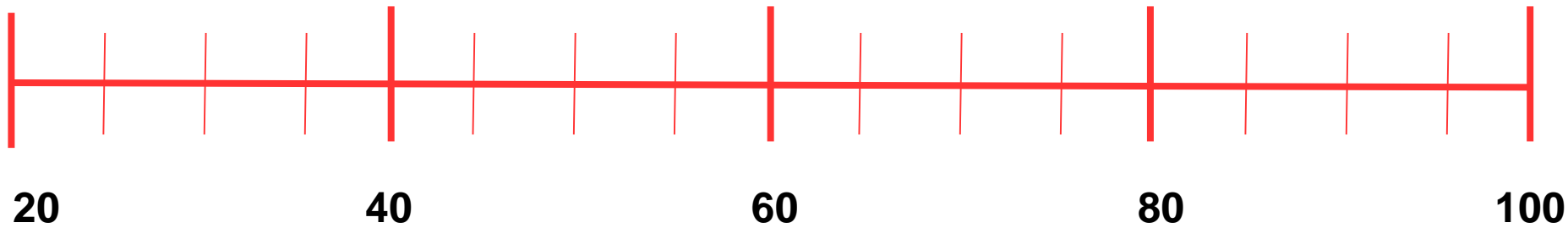


240 mins - 4  
hr

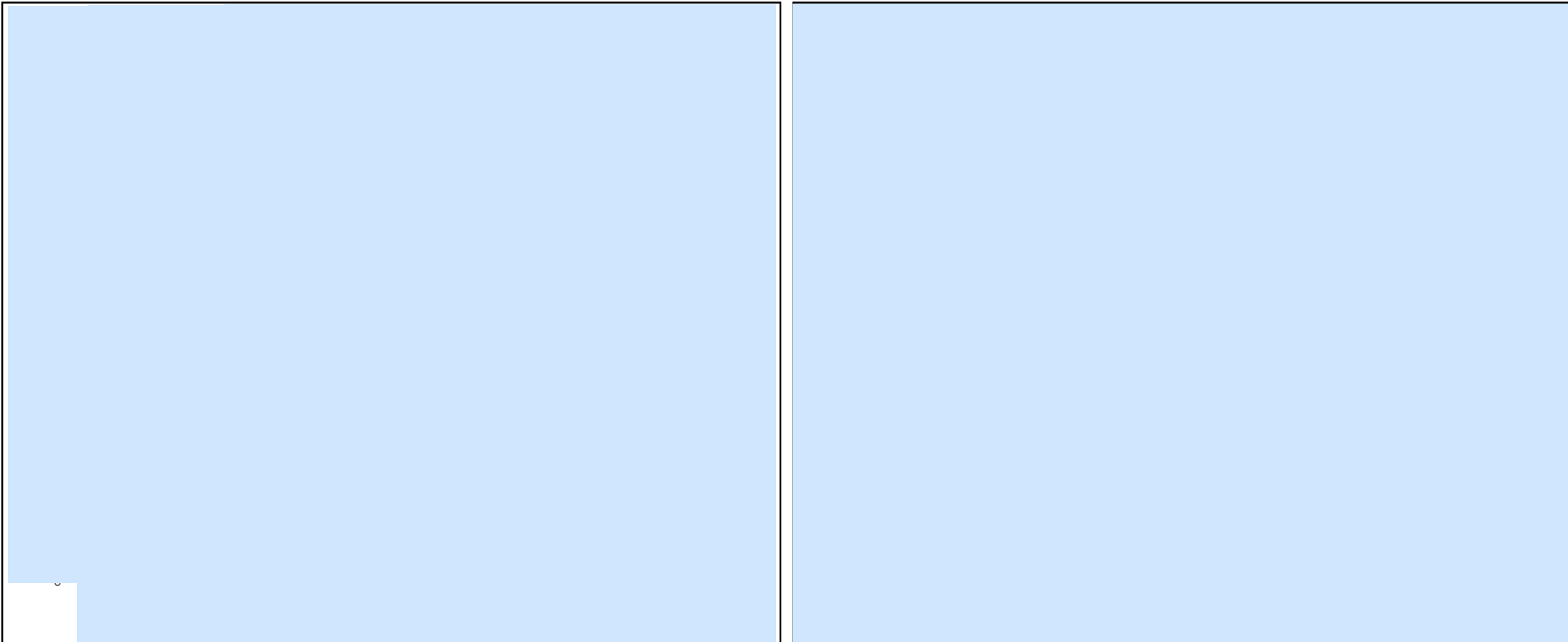
300 mins - 5  
hr

**Target sTAT  
(Immunoassay )**

*Minutes* →



# Routine Tests (Hospital Labs) : %'centile TAT Delivery (mins) Clinical Chemistry & Immunoassay



X-Axis =  
Serum Sample  
per day

Y-Axis =  
Time in Mins

60 mins - 1 hr

120 mins - 2 hr

180 mins - 3 hr

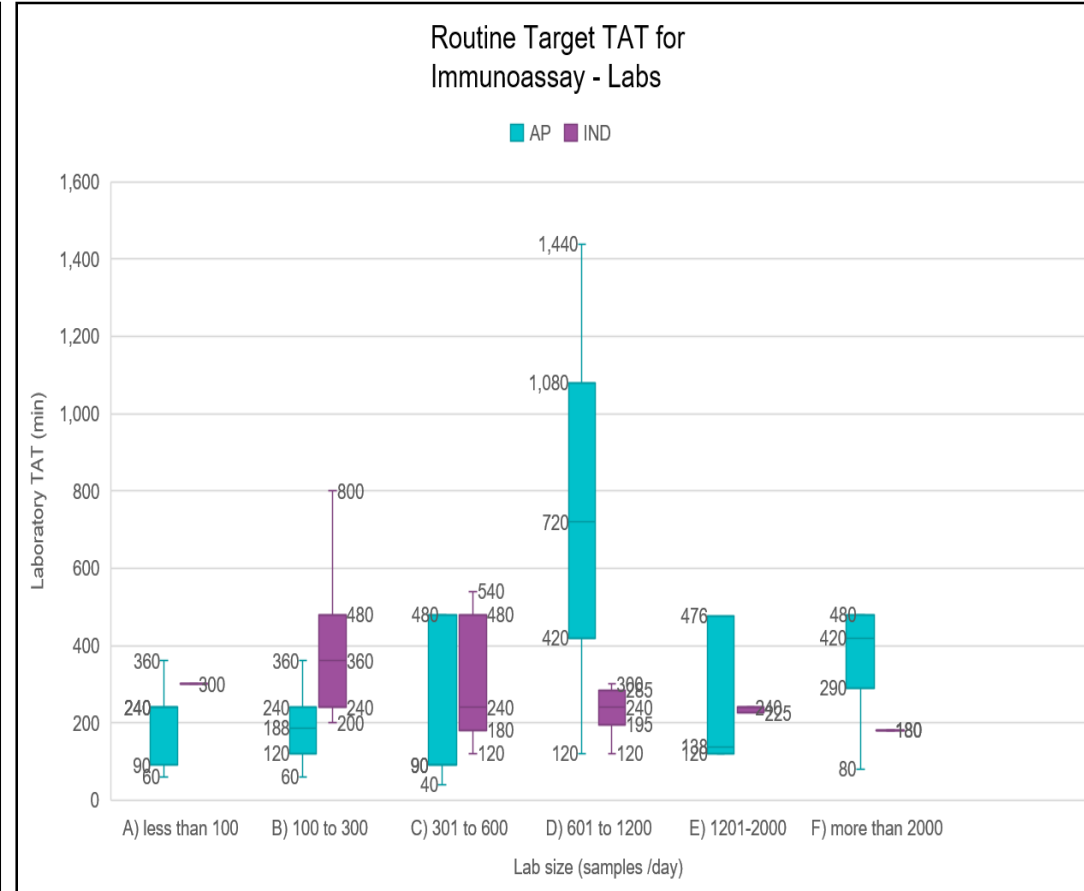
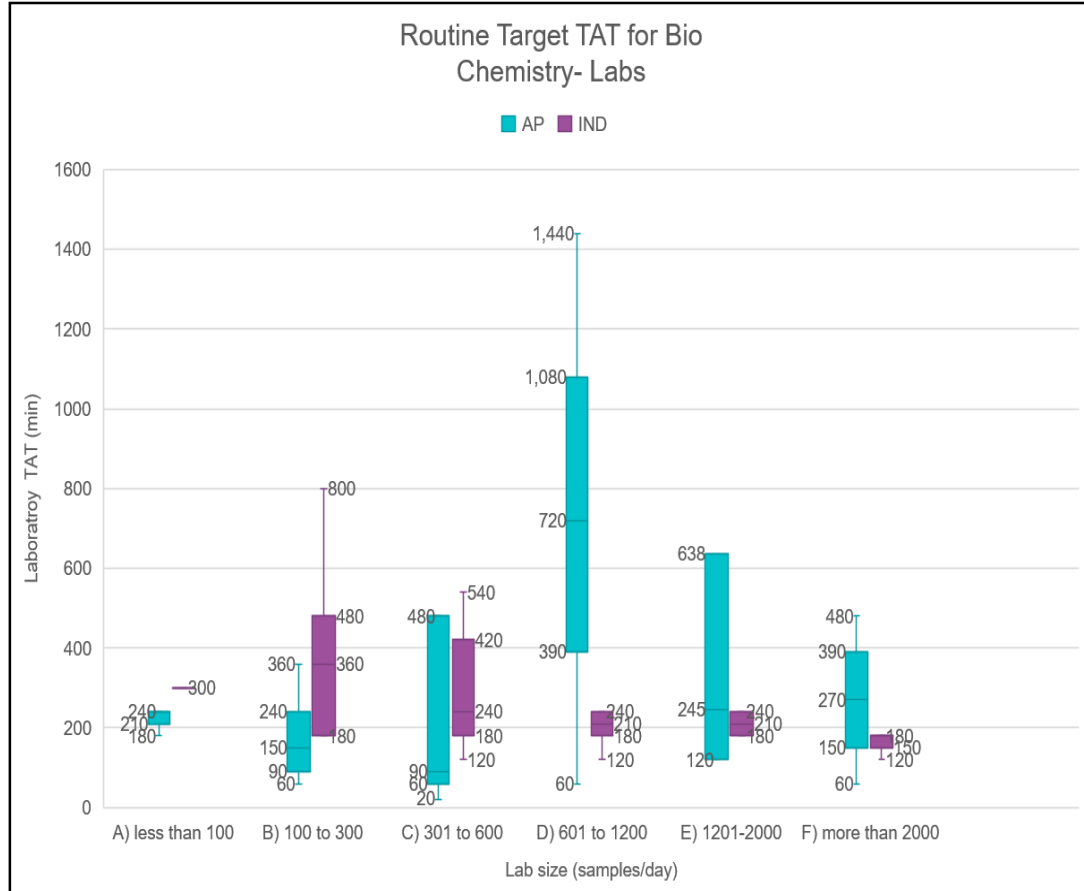
240 mins - 4 hr

300 mins - 5 hr

Source: CAHO, Indian Clinical Chemistry Benchmarking Survey. 2023

Lab Participating from APAC countries = 311 + lab from Thailand, Hong kong, Vietnam, Indonesia, Pakistan, Philippines, Taiwan

# Routine Tests (Pvt Commercial Labs) : %'centile TAT Delivery (mins) Clinical Chemistry & Immunoassay



X-Axis =  
Serum Sample  
per day

Y-Axis =  
Time in Mins

60 mins - 1 hr

120 mins - 2 hr

180 mins - 3 hr

240 mins - 4 hr

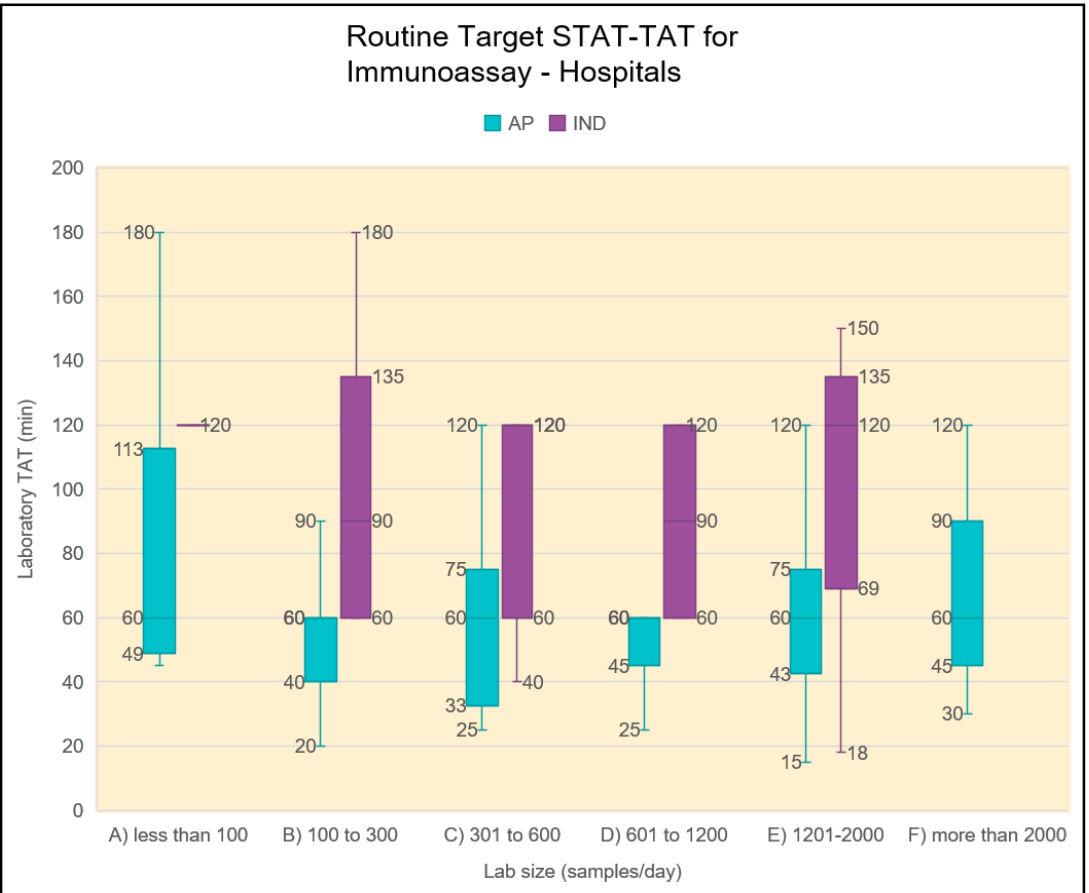
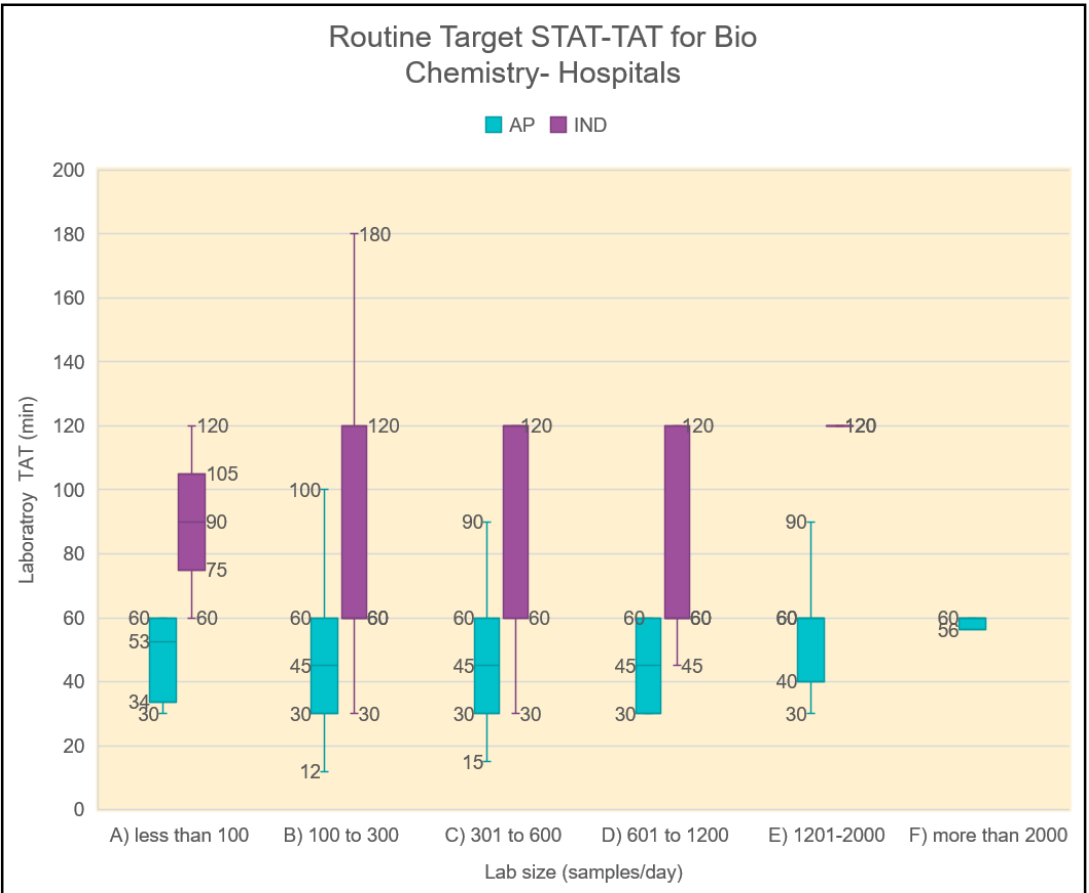
300 mins - 5 hr

Source: CAHO, Indian Clinical Chemistry Benchmarking Survey. 2023

Lab Participating from APAC countries = 311 + lab from Thailand, Hong kong, Vietnam, Indonesia, Pakistan, Philippines, Taiwan

# STAT Urgent Tests (Hospital / Commercial Labs) : %'centile TAT Delivery (mins)

## Clinical Chemistry & Immunoassay



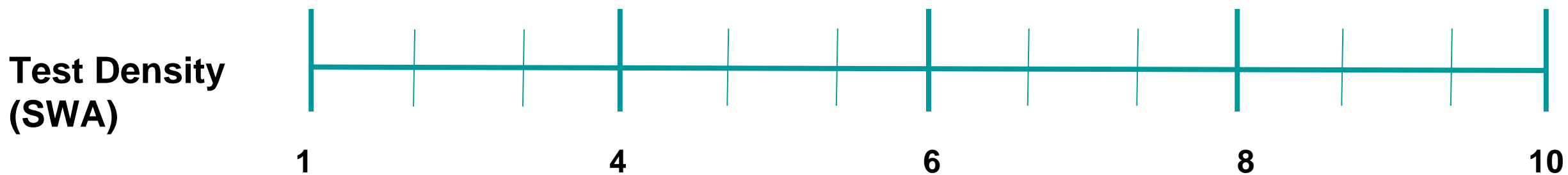
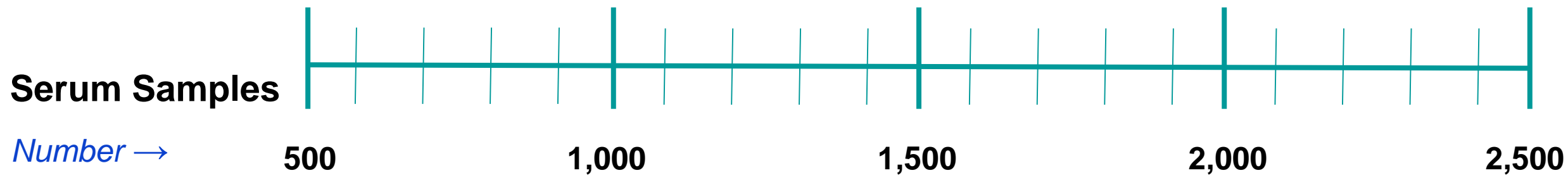
X-Axis = Serum Sample per day

Y-Axis = Time in Mins

- 60 mins - 1 hr
- 120 mins - 2 hr
- 180 mins - 3 hr
- 240 mins - 4 hr
- 300 mins - 5 hr

Source: CAHO, Indian Clinical Chemistry Benchmarking Survey. 2023  
 Lab Participating from APAC countries = 311 + lab from Thailand, Hong kong, Vietnam, Indonesia, Pakistan, Philippines, Taiwan

# A Short Benchmarking exercise



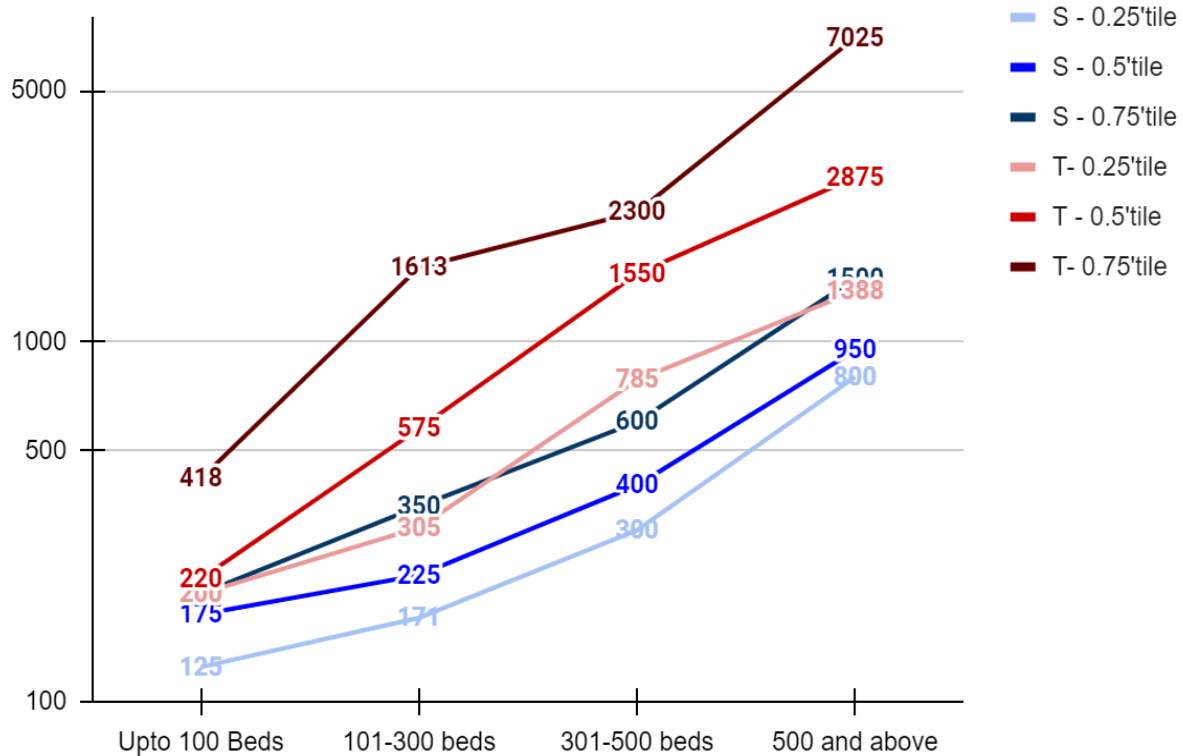
Test Density = No. of tests/No. of serum samples



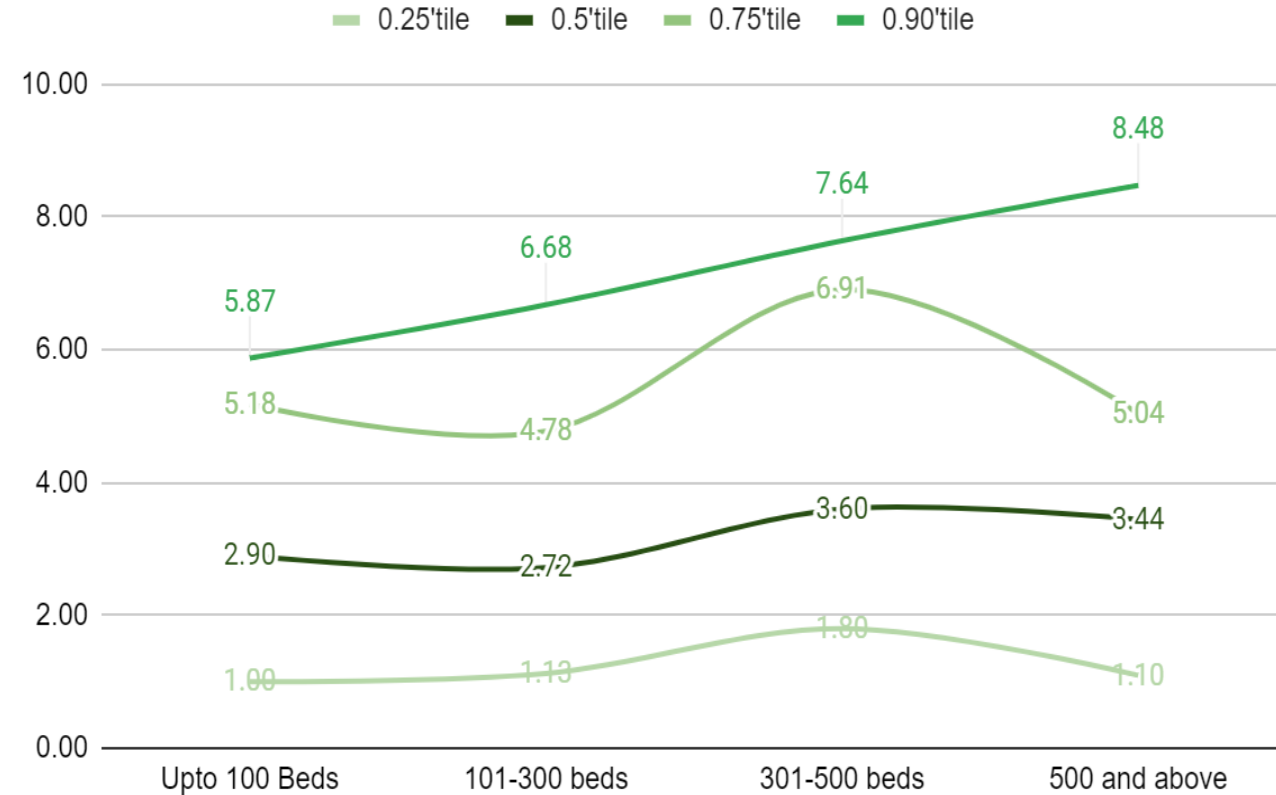
# Opportunity : Test Density



Percentil Distribution of number of Samp/Day (blue) and Test/day(red) cross Hospitals in India



Test Density for Hospitals in India



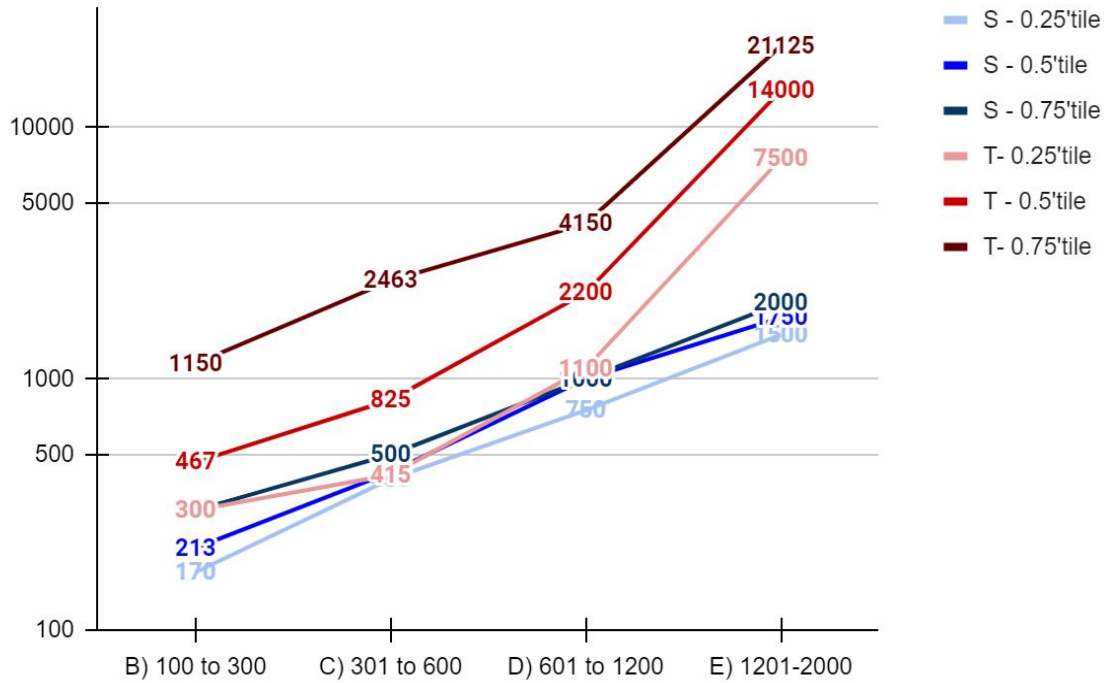
Source: CAHO, Indian Clinical Chemistry Benchmarking Survey. 2023

Lab Participating from APAC countries = 311 + lab from Thailand, Hong kong, Vietnam, Indonesia, Pakistan, Philippines, Taiwan

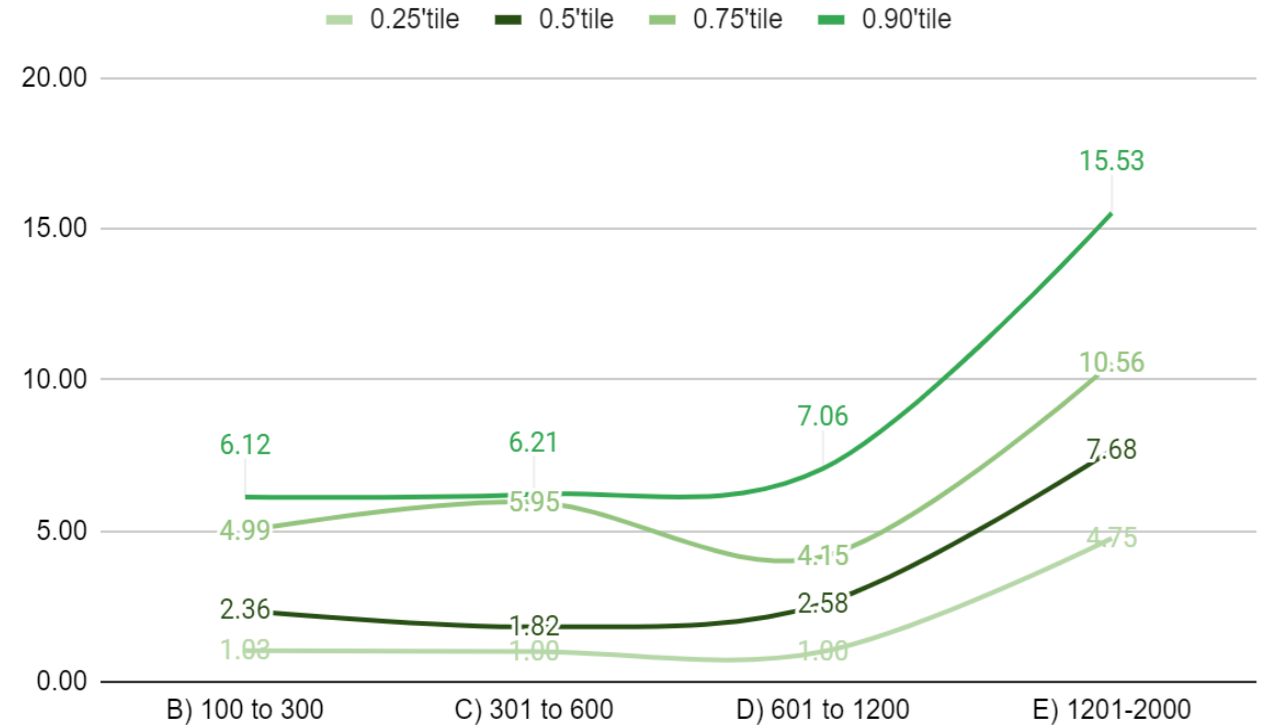
# Opportunity : Test Density Private Labs



Percentil Distribution of number of Samp/Day (blue) and Test/day(red) cross Private Labs in India



Test Density for Private Labs in India



Source: CAHO, Roche 2023 Indian Clinical Chemistry Benchmarking Survey. 2023

# How benchmarking can improve lab value

- Provide **insights on trends and best practices** within the laboratory sector
- Provide a list of **reference performance indicators** across peer groups
- Provide national and international **reference statistics** to demonstrate achievements and **help set goals**
- Identify areas for **community development programs**

***Doing now what patients need next***