



# Disparity in the Quality of COVID-19 Data Reporting across India during 2020



Varun Vasudevan<sup>1</sup>, Abeynaya Gnanasekaran<sup>1</sup>, Prof. James Zou<sup>2</sup>

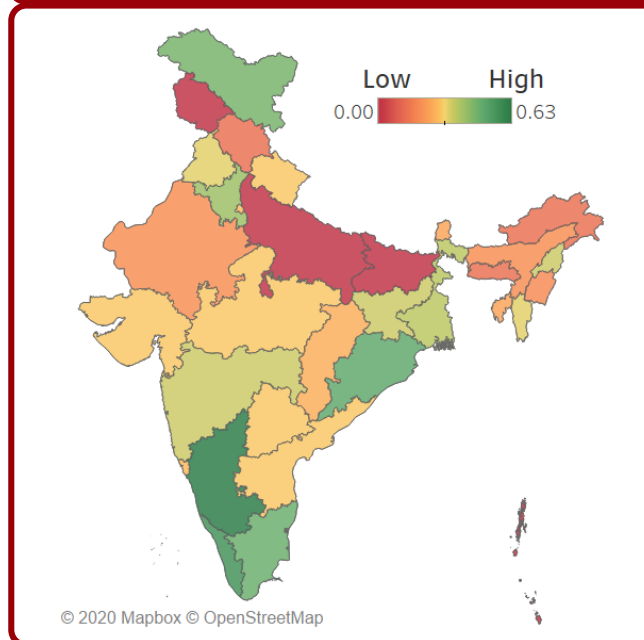
<sup>1</sup>ICME, <sup>2</sup>Department of Biomedical Data Science

## Framework for assessing the quality of data reporting

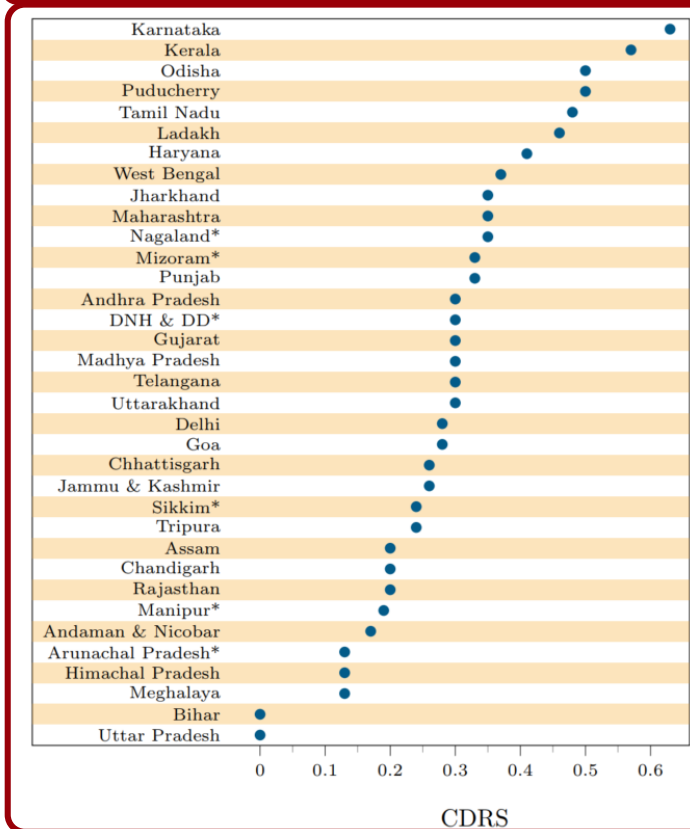
Developed a framework with 45 indicators to reflect: 1) WHO's recommendations for reporting COVID-19 surveillance data, and 2) the best practices in data reporting.

Dimension	Metric	Report Item				
		Confirmed	Deaths	Recovered	Quarantine	ICU
Availability	Total (cumulative)	0,1	0,1	0,1	0,1	0,1
	Daily	0,1	0,1	0,1	0,1	0,1
	Historical daily data	0,1	0,1	0,1	0,1	0,1
Accessibility	Ease of access			0,1		
	Availability in English			0,1		
	Total trend graphics	0,1	0,1	0,1	0,1	0,1
	Daily trend graphics	0,1	0,1	0,1	0,1	0,1
Granularity	Total stratified by age	0,1	0,1	0,1	NA	0,1
	Total stratified by gender	0,1	0,1	0,1	NA	0,1
	Total stratified by comorbidity	0,1	0,1,2	0,1	NA	0,1
	Total stratified by districts	0,1	0,1	0,1	0,1	0,1
Privacy	Compromise in privacy			-1,1		

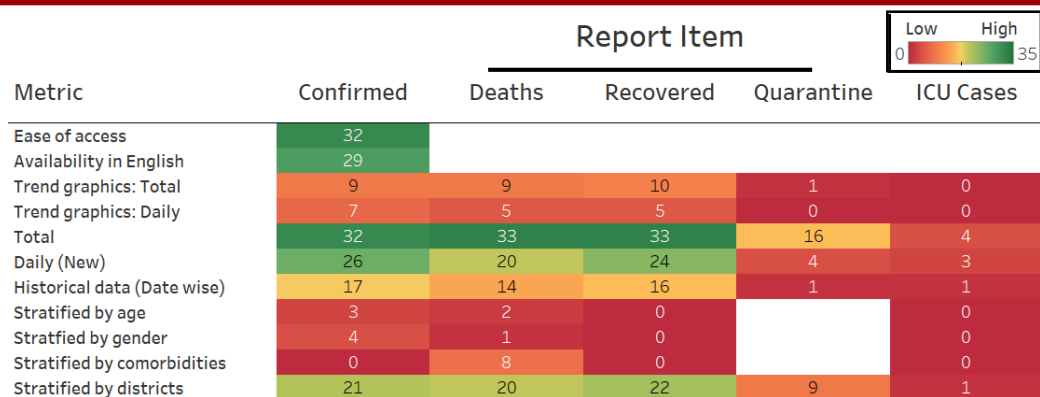
## Geographical disparity in CDRS



## CDRS ranking of states



## Majority of the states were not reporting granular data



## Impact: media coverage and some improvement in reporting

**INDIA TODAY** Karnataka ranks high in coronavirus data reporting, UP and Bihar worst: Stanford University study  
India Today, 27 Jul 2020

**THE TIMES OF INDIA** Goa among 10 worst states for data reporting: Stanford study  
TNN | Aug 2, 2020, 04:14 AM IST

**THE TIMES OF INDIA** Stanford University study ranks Bihar 'poor' in sharing Covid data  
TNN | Jul 28, 2020, 04:00 AM IST

## References

1. Vasudevan et al. Disparity in the quality of COVID-19 data reporting across India. To appear in BMC Public Health.
2. Vasudevan et al. Variation in COVID-19 data reporting across India: 6 months into the pandemic. Journal of Indian Insti of Sci. 2020