

Stock on hand vs. Consumption of Contraceptive Commodities: A review from the cLMIS dataset

Background

Supply of contraceptives has been a key challenge in Pakistan. Operationalization of Contraceptive Logistics Management Information System (cLMIS) in 2011 to maintain the record of supply of contraceptive commodities all over the country was a key step to promote commodity security in family planning in Pakistan. This analysis proposes a methodology to improve efficiency of supply decisions using data available in the cLMIS.

Methodology

Data from the cLMIS is used to construct National Heat Maps for Condom. The data is extracted for stock available (adjusted per 100,000 population) and consumption as proportion of available stock.

Way Forward

We show an easy overviewing technique to review stocking decision in real time. The analysis can be done repeatedly with already written down protocols that do not require high level statistical expertise. The scalability of the system ensures it can be applied across regions or facilities, optimizing resource allocation and improving program efficiency through automated, user-friendly dashboards. This approach will enhance responsiveness in addressing regional disparities in contraceptive availability and use. Finally, the analysis may be applied to other modalities such as medicines, supplies and human resource for health.

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Key Takeaways

- Heat Maps help visualize stock availability and consumption to better target supplies
- These maps can help match supplies to utilization for a more efficient distribution of contraceptives and can be done at the district/sub-district level

Figure I: Univariate Heatmaps for Condoms

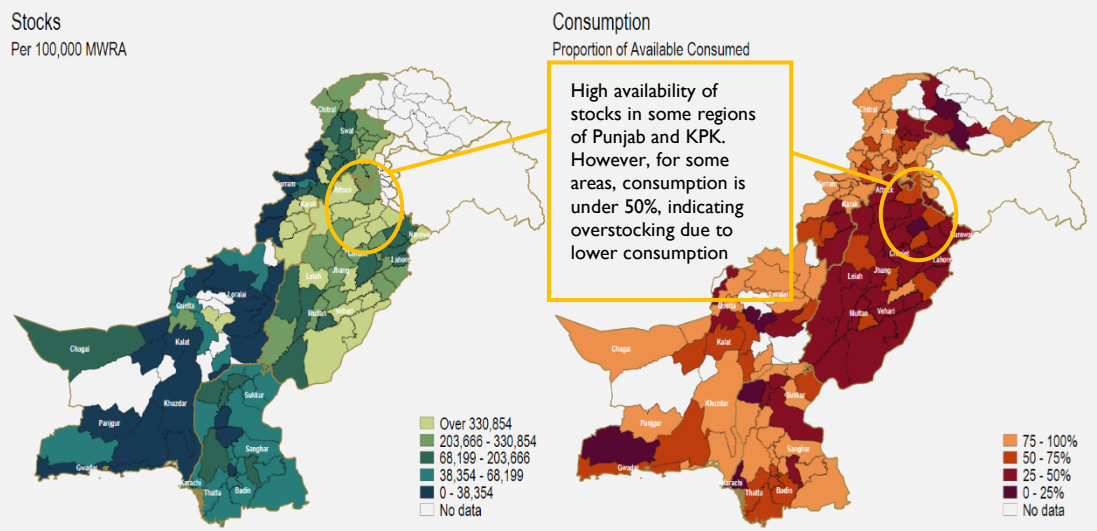


Figure II: Bi-variate Heatmap for Condoms

