

Data on Non-Communicable Diseases: A Missed Opportunity In Pakistan

Introduction

In Pakistan, a Low- and Middle-Income Country (LMIC) and the fifth most populous globally, Non-Communicable Diseases (NCDs) such as cardiovascular, respiratory and diabetes have emerged as a leading cause of death (Fig 1). The nation's lag in achieving health-related Sustainable Development Goals (SDGs), particularly the one-third reduction in premature mortality from NCDs (SDG 3.4), signals an immediate need for health interventions.

Key Challenges

Insufficient and outdated NCD surveillance data hinders the understanding of disease trends and impedes effective decision-making, leading to inadequate health system responses and intervention strategies at the national level.

Table 1: Challenges in NCD Surveillance and Data Collection in Pakistan

Provincial Disparities

After devolution of health from federal to provincial, data collection, and intervention strategies vary significantly across provinces. This impedes identification of risk factors and burden of disease.

Subnational Survey Limitations

The 2013-2014 subnational survey (WHO STEPS) provided valuable insights but excluded key provinces like Khyber Pakhtunkhwa, Gilgit-Baltistan, and Baluchistan, limiting representativeness and comprehensive understanding of NCD burden in the country.

Outdated National Surveys

The only comprehensive and representative national health survey on NCDs was conducted over three decades ago during 1990-94 by the Pakistan Medical Research Council (PMRC). National surveys (PSLM, DHS, MICS) conducted on a frequent basis do not include NCD data.

Key Points

- NCDs like CVD and diabetes are the leading cause of death in Pakistan, highlighting an urgent need for intervention.
- Data on NCDs is outdated and insufficient, with the last comprehensive national survey conducted three decades ago.
- Embracing digital solutions such as mobile-based surveys could revolutionize data collection efforts for NCDs in Pakistan.
- Integration of NCD data in national surveys can help to understand disease trends, facilitate decision making and improve health outcomes.

The existing health system response to the alarming NCD burden remains inadequate, with insufficient efforts to establish appropriate surveillance models and tailored interventions.

Recommendations

- Integrated Data Collection:** Expand the scope of existing national surveys (e.g., Pakistan Social and Living Standards Measurements (PSLM), Demographic Health Survey (DHS), Multiple Indicator Cluster Survey (MICS)) to include NCD-related health indicators.
- Strengthen District Health Information Systems:** To include comprehensive NCD data, enabling real-time monitoring of NCD prevalence and risk factors at the local level.
- Adopt Digital Data Collection:** Explore the use of digital mobile surveys for more efficient and widespread data collection reducing burdens

Figure 1: Change in leading causes of death in Pakistan from 1990 to 2019¹

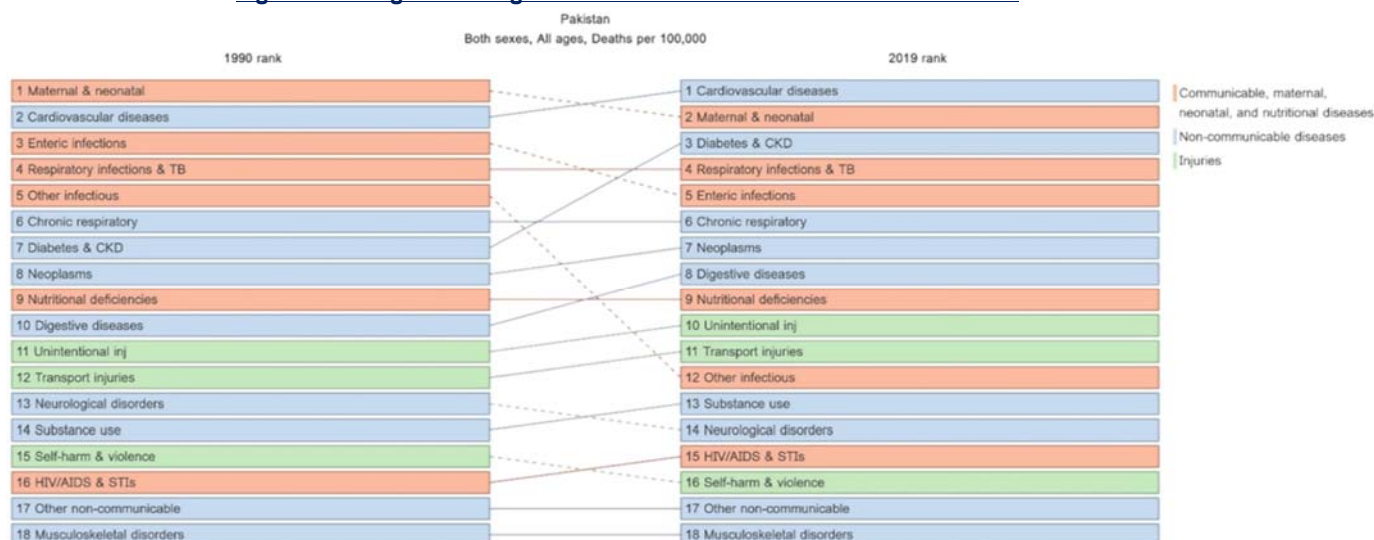


Figure 2: International Approaches to NCD Surveillance



associated with traditional paper-based surveys.

- **Capacity Building and Engagement:** Strengthen research capacity in NCDs and promote engagement between policymakers, media, and researchers to foster evidence-based decision-making and implementation of targeted NCD interventions.
- **Utilization of Universal Health Coverage Model:** Utilize frameworks like NCDs and Mental Health National Action Framework 2021-2030 to drive policy and action plans. This should be endorsed by provincial and federal governments and relevant stakeholders, to ensure a unified approach towards NCD management.

¹Downloaded from The Institute for Health Metrics and Evaluation (IHME) at the University of Washington Global Burden of Disease 2019 data visualization tool

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