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National Cancer Database on Costs and Quality of Life

Health Technology Assessment in India (HTAIn) Postgraduate Institute of Medical Education & Research, Chandigarh



Policy Brief

BMJ Open Development of National Cancer Database for Cost and Quality of Life (CaDCQoL) in India: a protocol

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ARSTRACT

Introduction. The rising accommic burden of cancer on healthcare system and patients in India has led to the increased demand for evidence in order to inform policy decisions such as drug price regulation, setting reimbursement package rates under publicly financed health insurance schemes and prioritising available resources to maximise value of investments in health Economic evaluations are an integral component of this important evidence. Lack of existing evidence on healthcare costs and health-related quality of life (HROOL) makes conducting economic evaluations a very challenging task. Therefore, it is imperative to develop a national database for health expenditure and HRDOL for

Methods and analysis. The present study proposes to develop a National Concer Database for Cost and Quality of Life (CaDCGoL) in India. The healthcare costs will be estimated using a patient perspective. A cross-sectional

Strengths and limitations of this study

- > This study would lead to development of the first national database for costs and quality of life among outents with cancer in India.
 - > The patient costs and health-related quality of life scores will be determined by concer site, stage of disease and tipe of treatment. The economic impact of carcer care on house

. Being a hospital-based study, we will not capture

quality of life of cancer patients who do not seek tored in this study as these are assistable in National

health system cost database.

- First National Cancer Database for Costs and Quality of Life in India.
- This database would serve to build an open-access data repository to derive estimates of cancer-related medical care costs borne by the patients, indirect costs due to loss of productivity and Health-related quality of life (HRQOL).
- Estimates would be generated by type of cancer, stage or severity, as well as by treatment approach.

· Direct OOPE (both Medical & Nonmedical)

 Indirect OOPE due to loss of productivity

> Sole evidencebased resource on cost of cancer care borne by patients

Provider payment rates for cancer specific health benefit packages

· Evidence on total cost of cancer care by combining OOPE with health system

 Cost parameters

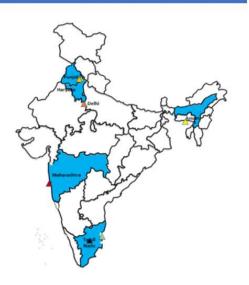
Utility scores

Cost-effectiveness analysis of screening and treatment strategies for cancer control in India

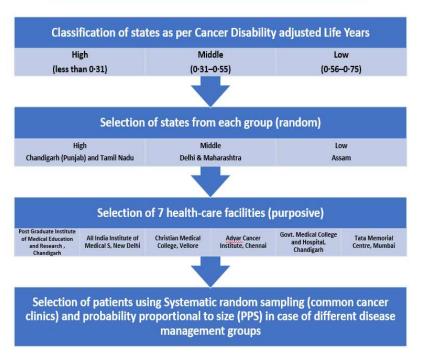
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Aims and Objective

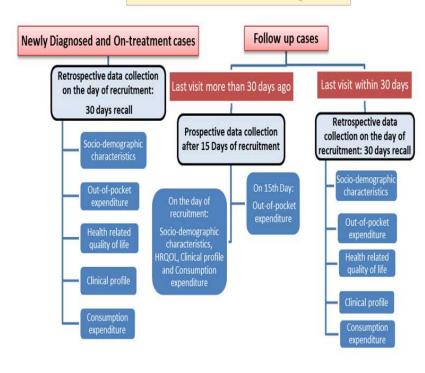
This policy brief addressed the policy question of economic burden and health-related quality of life among caner patients in India. The results would be useful to inform policy decisions in the field of cancer such as informing health technology assessments for assessing the cost-effectiveness of anticancer drugs and price regulation



Selection of health-care facilities



Data collection plan



- The study sample would be sufficient to provide valid estimates of OOPE, CHE and HRQOL for top 3, 6 and 12 cancers respectively in India, with a 5% margin of error and 95% CI.
- At 10% margin of error and 95% CI, our study would be powered to give valid estimates of OOPE, CHE and HRQOL for top 11, 17 and 20 cancers respectively in India

Margin of Error	Sample size		Number of cancers with valid estimates			
	ООРЕ	CHE	HRQOL	OOPE	СНЕ	HRQOL
5%	1690	845	398	3	6	12
10%	422	211	99	11	17	20

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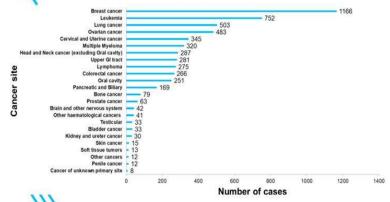
Preliminary findings

Out-of-pocket expenditure incurred per visit for nonhospitalised treatment of cancer in India

Components of OOPE	Mean (in ₹)	Standard Error (SE)	
User fees/Hospital charges	353	46	
Medicines	2591	139	
Diagnostics	2777	96 181	
Total Medical Expenditure	5722		
Total Non-medical Expenses	2420	51	
Overall OOPE (all cancers)	8142	192	

Out-of-pocket expenditure incurred for non-hospitalised

Distribution of cancers in India (Outpatient)



Health-related quality of life among cancer patients

