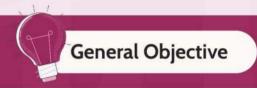
POTENTIAL DETERMINANTS IN HEALTH SECTOR INFLUENCING HEALTH CARE EXPENDITURE OF THE HOUSEHOLDS: A MIXED-METHODS STUDY IN BANGLADESH



Background

Demographic, and epidemiological transitions are taking place and tackling the rising burden of non-communicable diseases (NCDs) are challenges in achieving universal health coverage (UHC) in the country. Though the national health budget supports health care, 74% of total health expenditure is met by households out of pocket (OOP) which is the second highest in South-East Asia. The Government of Bangladesh (GOB) has consistently shown commitment in ensuring sustainable financing for health care. However, the high health care expenditure is on an increasing trend due to many nonfinancial reasons as well and a large proportion of OOP is spent on medicine and diagnostic tests.

This study specifically focused on potential determinants of NCD services (HTN & DM) rather than wider health sectors and focused on PHC facilities only. The study also identified causes of hypertension (HTN) and Diabetes Miletus (DM) related household expenditure and recommended to overcome this extra expenditure.



The objective of the study was to investigate the potential determinants of health system influencing OOP healthcare expenditure of households for receiving healthcare services for HTN and DM case of households.



Ethical clearance of the study was taken from the IRB of Institute of Health Economics (IHE), University of Dhaka. The study was conducted in Daudkandi upazila of Cumilla district in May and June 2023. The study used mixed-methods approach using both quantitative and qualitative data. Quantitative methods included household survey, health facility survey and patient exit survey. Qualitative methods included key informant interviews.

Results





77 Diabetes

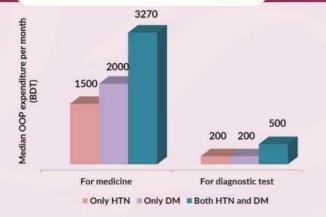


92 Hypertension

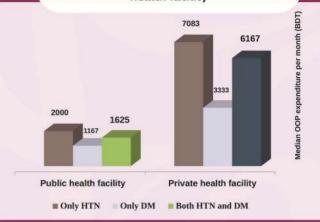


*self reported

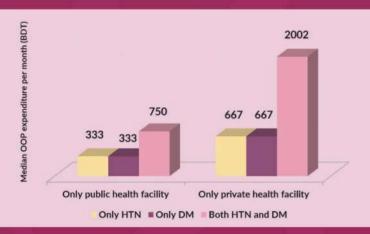
Routine healthcare expenditure



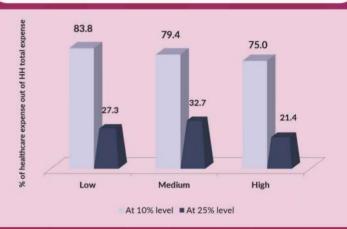
Inpatient service from public or private health facility



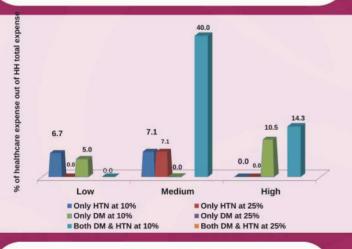
Outpatient service from only public or private health facility



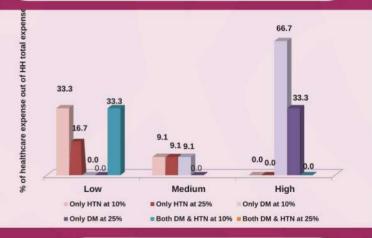
Catastrophic Health Expenditure (CHE) for receiving service for DM and HTN according to socioeconomic status



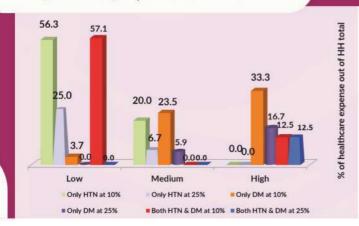
CHE for receiving outpatient service from only private facility according to socioeconomic status



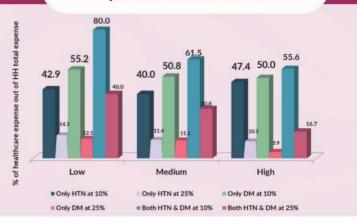
CHE for receiving outpatient service from only public facility according to socioeconomic status

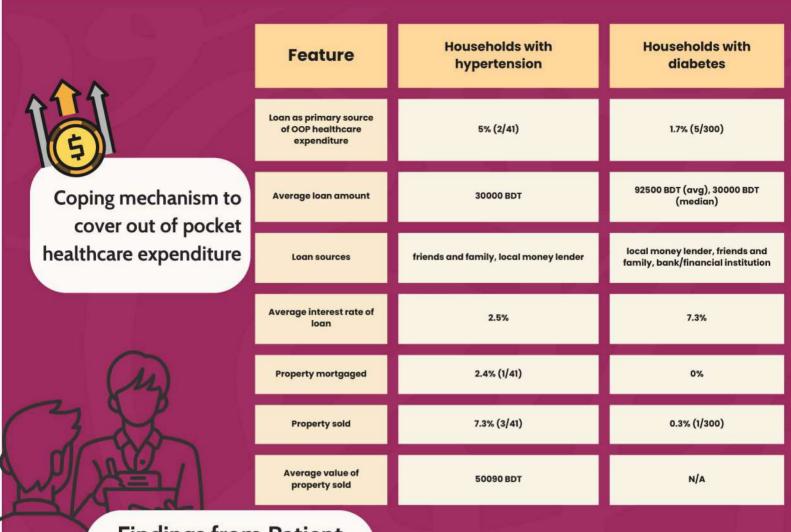


CHE for receiving outpatient and inpatient service from public facility as per socioeconomic status



CHE for routine healthcare medicine as per socioeconomic status



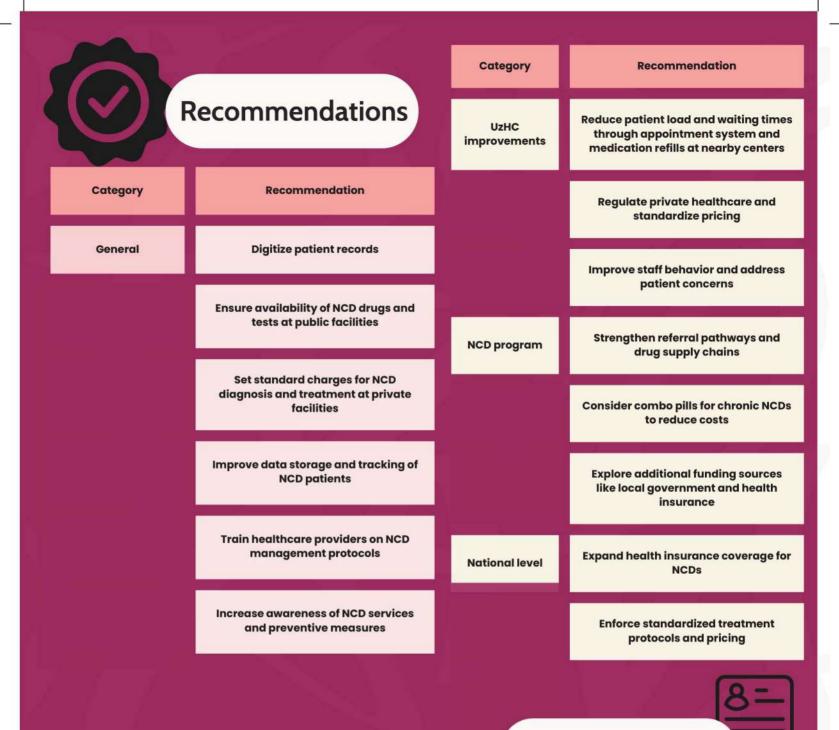


Findings from Patient Exit Survey

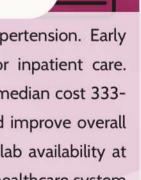
Exit client survey was conducted among 31 patients diagnosed with HTN and/or DM at NCD corner of Daudkandi UzHC. 81.8% (9/11) only HTN, 66.7% (6/9) only DM and 90.0% (10/11) both HTN and DM cases reported of taking regular medication. Among only HTN cases 18.2%, 54.5%, 27.3% reported of suffering from heart problem, vision problem and stroke problem respectively as complications related to HTN. Among only DM cases 11.1%, 11.1%, 33.3% and 55.6% reported suffering from heart problems, kidney disease, vision problem, and foot damage problem as complications related to DM.

Discussion

Findings from the study are found consistent with the findings from BNHA 2020. Among total health care expenditure for treating DM and/or HTN, major contributions are of medicine, lab investigation related expenditure. Need to ensure to follow the National protocol on NCD management for both for the government and private facilities. Have to ensure supply of prescribed medicine and lab investigations at public health facilities.



Conclusion



Study finds medicine and lab costs dominate OPD spending for diabetes and hypertension. Early diagnosis, regular treatment, and healthy lifestyle can significantly reduce need for inpatient care. Government providing regular consultations, medication, and tests at public facilities (median cost 333-750 BDT) could help patients manage chronic conditions, reduce OOP expenses, and improve overall health. Consistent adherence to national NCD protocols and ensuring medicine and lab availability at public facilities are crucial. Further action based on study findings is needed to address healthcare system factors influencing household expenditure.



