

FACILITY-BASED INTERVENTION COSTING FOR THE 48 HIGHEST BURDEN DISEASES IN THE GUARANTEED HEALTH BENEFITS PACKAGE OF THE DEPARTMENT OF HEALTH AND THE PHILIPPINE HEALTH INSURANCE CORPORATION

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Having the cost per disease, as well as individualized cost per bed day per department for hospitals of various characteristics, will help guide policymakers towards both strategic purchasing of healthcare associated goods and services and an eventual shift in Provider Payment Method, if necessary.

OBJECTIVES

To estimate unit costs of various hospital services in a sample of public hospitals across all five major geographic zones in the country (National Capital Region, North Luzon, South Luzon, Visayas and Mindanao).

METHODS

TRAINING COSTING WORKSHOP

A centralized capacity-building training costing workshop to establish partnerships and to obtain buy-in from the various hospitals for them to provide data for the research team.

SERIES OF DATA VALIDATION HOSPITAL VISITS

A series of data validation hospital visits to one institution per hospital level and per geographic zone.

COST ITEMS INCLUDED

All financial, administrative and departmental activities and associated costs were collected. This included all cost items, including:

1. personnel costs
2. medical supplies
3. pharmacy
4. laboratory and radiology costs
5. administrative costs
6. capital outlay
7. depreciation costs, etc.

UNIT COST COMPUTED

- Median unit cost per for key outpatient and ancillary services, surgical procedures
- Median unit cost per bed day for the four major clinical departments (Medicine, Surgery, Pediatrics and Obstetrics-Gynecology)

FINDINGS

MEDIAN UNIT COST PER BED DAY PER DEPARTMENT

PHP 1521.00
 PHP 2474.00
 PHP 1277.33
 PHP 2760.00

MEDICINE Department
 SURGERY Department
 PEDIATRICS Department
 OB-GYNE Department

VARIATIONS ACROSS DEPARTMENTS

Due to differences in level of output, condition management complexity and length of stay of confinement.

VARIATIONS ACROSS HOSPITAL LEVELS

Reflect geographical differences in costs, variations in procurement costs and level of efficiency of hospital operations.

MEDIAN UNIT COST FOR VARIOUS ANCILLARY SERVICES

PHP 141.00
 PHP 178.00
 PHP 857.00
 PHP 7,272.00
 PHP 634.00
 PHP 634.00
 PHP 835.00

per prescription for the Pharmacy
 per laboratory test for the Laboratory
 per imaging procedure for the Radiology
 per surgical procedure
 per outpatient visit
 per visit to Emergency department
 per dental visit

MEDIAN FACILITY-BASED INTERVENTION COSTS PER DISEASE

The costs computed above in order to estimate the cost of treating patients diagnosed with one of the 48 Highest Burden Diseases. These costs were computed per hospital. Shown below are the median costs across the various sample hospitals.

DISEASE	TOTAL COST
ISCHEMIC HEART DISEASE	16,285.50
LOWER RESPIRATORY TRACT INFECTION	16,291.00
HEMORRHAGIC STROKE	20,191.00
DIABETES	19,957.00
TUBERCULOSIS	7,530.00
LOW BACK PAIN	12,280.00
ASTHMA	2,184.00
CHRONIC OBSTRUCTIVE PULMONARY DISEASE	21,934.00
NEONATAL SEPSIS	19,637.00
IRON DEFICIENCY ANEMIA	4,253.00
CONGENITAL HEART DISEASE	26,326.00
DIARRHEA	15,176.00
MAJOR DEPRESSIVE DISORDER	22,092.00
NEONATAL ENCEPHALOPATHY	11,654.99
ISCHEMIC STROKE	18,685.30
CHRONIC KIDNEY DISEASE	35,140.00
LUNG CANCER	48,963.00
ASSAULT	24,355.50
HYPERTENSIVE HEART DISEASE	15,764.00
NECK PAIN	34,352.00
ANXIETY	15,761.00
BREAST CANCER	34,352.00
MOTOR INJURIES	5,612.00
PEPTIC ULCER DISEASE	60,612.00
REFRACTIVE ERROR	1,832.00
SCHIZOPHRENIA	8,800.00
COLORRECTAL CANCER	38,804.50
FALLS	23,122.50
ALZHEIMER'S DISEASE	3,899.00
RHEUMATIC HEART DISEASE	25,378.00
DERMATITIS	7,455.00
PROTEIN ENERGY MALNUTRITION	11,286.00
TYPHOID	24,938.00
TRICHIURIASIS	3,689.00
AMPHETAMINE	4,398.00
BIPOLAR DISORDER	17,219.00
EPILEPSY	10,444.50
LEUKEMIA	44,121.00
MEASLES	22,888.30
PNEUMONIA	11,750.31

CONCLUSION

In the continuum of research efforts to identify the most burdensome diseases, their cost-effective facility-based interventions and corresponding resource requirements, this study identified the associated costs in treating these diseases.

RECOMMENDATION

The study recommends to PhilHealth and the Department of Health to explore the development of a consistent system of gathering costs from hospitals.

POLICY LESSONS

- Regulation, standardization and harmonization of records and informations systems
- Development of a Universal Cost Accounting System
- Identify cost items to be covered by payors