

Pharmacoeconomic evaluation in cost of illness in type 2 diabetes mellitus patients in a tertiary care hospital

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ABSTRACT

Background: India is expected to bear the burden of world's greatest increase of diabetes population. This burden needs to be considered in terms of costs.

Methods: Cross-sectional study was done in type 2 diabetes mellitus 100 patients that attended Medicine OPD. Prior to enrollment Institutional Ethics Committee permission was taken. Written Informed consent was taken. Demographic information related to Education, Occupation and Income was taken down. Also Information related to diagnostic tests and medications were documented. Inclusion criterion were 18-70 years of either gender diagnosed by Physicians in OPD as type 2 diabetes, willing to participate and have followed in OPD for at least one year. The Exclusion criterion was Critically ill or unconscious patients and Pregnant women. Direct and indirect costs were calculated.

Results: The average age was 56.31±10.50 years. The average fasting blood glucose was 120.65±22.70mg/dl. The average cost per month for investigations was 159.74±128.06. Annual visit to OPD was 13.06±7.35. Time loss per visit was 5.62±1.29 hours and of accompanying person was 6.55±3.87 hours. There were 2 from Lower and 63 from Upper Lower socioeconomic class. There were 41 patients having diabetic complications. The indirect cost was around 5838.51 and direct cost was around 19925. Total cost per annum per patient was around 32361.27 INR.

Conclusions: There is need for strategies to reduce the cost burden. There is also needed to design financial systems for diabetes related nationwide health programs.

Keywords: Direct costs, Glibenclamide, Indirect costs, Metformin, Pioglitazone, Voglibose

INTRODUCTION

Diabetes mellitus (DM) is a metabolic disorder having pathophysiology of insufficient release of insulin or resistance to action of insulin or both. Diabetes is broadly classified as type 1 diabetes in which there is absolute deficiency of insulin, and type 2 diabetes (T2DM) caused by reduced insulin secretion and resistance to insulin.¹

According to International diabetes federation (IDF) atlas 2015, there were 415 million people in 2015 worldwide having DM and is estimated to reach 642 million by 2040.

Nearly 80% of the world's diabetic patients are from low and middle-income countries. In the World, India is second country having largest number of diabetic people with 65.1 million in 2015 and expected to reach 109 million by 2035. In coming decades India has to bear the burden of world's greatest increase of diabetic patients.^{2,3}

The health burden of diabetes mellitus in India is raggedly distributed across various socioeconomic population.^{4,5} This burden in Indian population can be evaluated by estimating health care costs.⁶ The global health spending on diabetes was estimated around 673 billion United States

Dollars (USD) in 2015 and expected to reach 802 USD billion in 2040.² T2DM is a chronic disease with characteristics of hyperglycemia, dyslipidemia and progresses to microvascular and macrovascular complications seen progressively in long duration.⁷

Knowledge of costs related to diabetes helps to improve understanding, addressing health care and prevention issues associated with diabetes. The upcoming challenge for researchers on diabetes is to study alternative intercessions for management of diabetes. This is limited by sparse data on health expenditure costs especially in T2DM patients.⁸ Thus the present study was planned to evaluate the health care expenditure by evaluating the direct costs and indirect costs in T2DM patients in a tertiary care hospital.

METHODS

A Cross-sectional Randomized study was done at tertiary care medical college and hospital in a metropolitan city in 100 diabetic patients attending Medicine OPD of a tertiary care hospital. The confidentiality of the volunteers was maintained throughout the study. The duration of study was from 01 April 2016 to 30 May 2017. The patients were explained about the purpose and methodology of the study in language patient understands and Informed consent was administered prior to enrollment. Demographic information of the patients was noted in separate annexure. The socioeconomic status was evaluated by Education, Occupation and Income parameters noted according to Kuppaswamy's Socio Economic Status Scale in separate annexure.⁹ Information related to the medications was documented. Information with respect to the different diagnostic test related to diabetes were documented.

The Inclusion criterion was patients of 18-70 years of age and either gender, diagnosed by Physicians in Medicine OPD as type 2 diabetes according to American Diabetes Association (ADA) guidelines.¹⁰ The patients that followed in Medicine OPD for at least one year and were willing to participate in the study were included. The exclusion criterion were Critically ill or unconscious patients, Pregnant women and Type I diabetes mellitus patients. Those patients that were not willing to participate or not willing to give the details related to the study questionnaire were excluded.

The direct costs were calculated that included costs of visits to specialists, pharmaceutical and device, laboratory and diagnostic tests, if any comorbid conditions than additional costs for each comorbid condition, also if any complications related to diabetes than additional costs for each complication was calculated. The total cost was estimated by multiplying the number of each care unit by unit costs of each type of care and the resulting total cost was annualized. The Indirect Cost calculated included expenditures such as food, transportation of accompanying family members.^{11,12}

CIMS (Current Index of Medical Speciliaties) and IDR (Indian drug review) 2017 issues were reviewed for prices of drugs used in the management of diabetes mellitus. The cost of medicines used for diabetes manufactured by different companies was estimated on the basis of medicines having the same strength and dosage form.^{13,14} The difference in the maximum price and minimum price of the medicine used for diabetes manufactured by different companies was calculated. The formula for calculating variation in percentage of price was calculated by following formula.¹⁵

$$\frac{\text{The Price of most expensive brand} - \text{The Price of least expensive brand}}{\text{expensive brand}} \times 100$$

The Price of least Expensive brand.

All the costs were calculated in terms of Indian Rupees (INR).

Statistical analysis

Descriptive statistics was being used to identify the personal characteristics of the total respondents. P value <0.05 was considered for statistically significance. Data was entered in MS Excel 2010 and responses were coded and analyzed. Data was expressed in actual number, frequency, percentage, mean \pm standard deviation. Chi square and Fishers test was used for Categorical values. Parametric tests were used to compare the scores among subgroups. Graphpad 5.0 version was used for statistical analysis.

RESULTS

The average age in our study was 56.31 \pm 10.50 years (range 23 to 68 years). There were 40 females and 60 males. Among the 100 patients, 97 were from urban area and three from rural area. Among the Socioeconomic status there were 2 from Lower SEC, 63 from Upper Lower SEC, 27 from Lower Middle and 8 from Upper middle. Out of 100, 40 patients were accompanied by relatives that included wife (13), husband (9), daughter (10), Son (6), Brother (1), Sister (2), and Neighbor (2). Out of 100 patients 37 travelled to hospital by rickshaw, 12 by train, 13 by bus, 14 by train and rickshaw, 7 by walking, 4 by bus and rickshaw, 11 by bus and train. The average cost to patient per visit for travelling was 89.45 \pm 63.67 (INR). Time loss of the patient in hours per visit was 5.62 \pm 1.29 hours and of the accompanying person was 6.56 \pm 3.87 hours. Others include costs of needles, syringes, cotton, diabetic footwear etc. The direct costs are given in Table 1 and indirect costs are given in Table 2.

The average frequency for Laboratory visit was 10.9 \pm 4.61 per year. The average cost per month for laboratory investigations was 159.74 \pm 128.06. HbA1c was done only by seven patients. The average fasting blood glucose was 120.65 \pm 22.70mg/dl. The gender differences are given in Table 3.

Table 1: Direct medical costs.

Direct costs	Indian rupees (yearly)
Consultation	2567
Admissions for complications	7650
Laboratory tests	1908.6
Home tests	5780
Medicines	10380
Travel Costs	1121.16
Alternative medicines	1360
Others	1756
Total	26522.76

Table 2: Indirect medical costs.

Indirect costs	Indian rupees (annually)
Transportation of accompanying person	1362.48
Food and other miscellaneous expenses	4476.03
Total	5838.51

Table 3: Comparison of male and female gender.

Parameters	Female		Male		P Value
	Mean	SD	Mean	SD	
Age	53.19	9.53	56.31	8.91	0.103
FBG	126.70	25.62	114.61	19.79	0.013
Lab tests	173.56	32.67	179.74	34.91	0.369
Visits	11.50	2.47	13.06	2.56	0.002
Time loss	4.43	1.68	5.62	1.83	0.001
Accompanying person	5.97	1.79	6.55	2.07	0.139

The comorbidities associated with diabetic patients were 81 (Female (F):32 Male (M):49, [P=0.83]) patients for hypertension, 65 (F:36, M:29 [p<0.0001]) had arthritis, 41 (F:18, M:23 [0.072]) had hyperlipidemia. Among 100 patients 31 patients had complications of diabetes, out of this 11 had diabetic foot, 9 had diabetic nephropathy, 8 had diabetic neuropathy and 3 had diabetic retinopathy. Other serious complications were 21 had suffered from hypoglycemia, 03 patients had suffered from diabetic ketoacidosis, 04 from foot amputation while 04 had previous history of myocardial infarction.

Table 4: Percentage variability in diabetic medications.

Diabetic medications	Dose	Minimum	Maximum	Difference	Percentage variation
Metformin	1 g	6.4	59	52.6	821.88
Metformin + Gliclazide	500mg + 40mg	15	78	63	420.94
Glimeperide	1 mg	11.5	73.95	62.45	543.04
Glibenclamide	2.5 mg	3.6	6.5	2.9	833.33
Pioglitazone	15 mg	12	112	100	833.33
Human Mixtard	40 IU/ml	118	217	99	83.89
Acarbose	50 mg	70	117	47	67.14
Voglibose	0.2 mg	31	102	71	229.03

Annual visit to OPD was 13.06±7.35 times. Other than the current OPD, patients also visit other OPDs like, Private Medicine OPD (16), Ophthalmology (15), Orthopedic (13), Surgery (4) and Gynecology (3). 56% of the patients used only Metformin, 31% used Metformin as combination with other medicines (Gliclazide, Glimeperide, Glibenclamide, Acarbose, Voglibose, Pioglitazone), 8% Glibenclamide, 5% used Glimeperide. The percentage variability in diabetic medications is given in Table 4.

DISCUSSION

Diabetes is a chronic disorder of endocrine and metabolism which requires a life-long therapy.¹⁶ Since diabetes is a chronic disease associated with comorbidities and complications, it has a substantial impact on the cost of care.¹⁷ India is home to the second largest number of

adults living with diabetes worldwide, after China, but still India spent less than 3% of the global total (ID23 billion) costs on diabetes.²

In our study average age was 56.31±10.50 years and 60% of the patients were males. Study by Assefa had 130 DM patients, of which 51.54% were females and 48.46% were males.¹ Study by Chidambaram had 67.5% males and 32.5% were females.¹⁸ Study by Abdelaziz had 62 patients in the study with majority of the patients in 40-60 years with mean age of 64±12 years. Similar results were found by other studies like Davari.¹⁹

In the present study majority of the patients had uncontrolled FBG. FBG of females was more than males. Visits to the OPD were more by male patients than females in a year. Time loss by male patients was more than females and was statistically significant. In our study, Medicines followed by admissions for complications

contributed to majority of the direct costs. In study by Prajapati the mean total cost was 12391.84 (INR). Contributions from direct medical cost were 74%, direct non-medical cost were 2% and indirect were 24%.¹⁷ Study by Chidambaram, average per patient annual direct cost was 38,589 (INR).¹⁸ Study by Sortso had 14,349 Euros per patient-year.²¹

According to study by Prajapati, maximum cost incurred was due to diabetic medicines (44.14%) followed by admissions due to complication cost (43.34%). Out of total 90 diabetic patients, 47.78% patients, developed one or more diabetic complications. 27 (30%) patients need hospitalization during their one year follow up period. Medicine cost was a major contributor in any cost of illness study. 1.5% of the total diabetic cost was contributed by cost of alternative medicines, cost of home monitoring and cost of syringes, needles and cotton.¹⁷ According to study by Abdelaziz direct cost ranged from 3,350 to 22,183 (INR).¹⁹

Study by Assefa, 11530.68 USD was the cost of illness of diabetes in 2012 and per patient/year was 88.70 USD. Among these 73.10% was on medicine costs. The cost of illness in patients with complications was USD 125 and significantly higher than without complications that was USD 76. Numbers of visits to DM clinic, type of DM and residence area were found to affect the cost significantly.¹ According to study by Chidambaram the average direct annual cost for type 2 diabetes was 38,589 (INR).¹⁸

In our study, the maximum variation in percentage was for Glibenclamide and Pioglitazone followed by metformin. According to study by Sortso cost of illness due to diabetes was classified as that with no complication (6,254 EUR), minor complication (14,164 EUR) and major complication (32,386 EUR) per person-year.²¹ In study by Suleiman Hypertension was concurrent illness in almost 83.78% of the patients.²² According to Study by Davari, diabetic Nephropathy (72.4%), and neuropathy (39%) were the most frequent complications seen in diabetic patients.²⁰

According to study by Abdelaziz 56% of the patients were receiving metformin monotherapy and metformin with glimepiride as combination drug by 30%.¹⁹ According to study by Shah, among the medicines prescribed for diabetes, Metformin was commonly prescribed and Sitagliptin was costliest prescribed medicine.¹⁶

Study by Shah found Metformin had price variation of 94.83% and of Sitagliptin was 174%.¹⁶ In study by Chincholkar, found about 3012% price variation for Metformin (500mg), 2809% for combination of Voglibose (0.3mg) + Metformin (500mg), there was huge price variation in cost of oral antidiabetic medications.²³ Study by Jadhav had Metformin (500mg) and Pioglitazone (15mg) that showed maximum price variation of 308.33% and 542% respectively. In combination therapies, Glipizide and Metformin combination showed the maximum variation up to 399.04%.¹⁵ Similarly study by

Hussain had Glipizide 5mg that showed variation of 780% and Pioglitazone 15mg showed variation of 600%. Glimpiride 1mg + Metformin 500mg combinations showed price variation of 533%.²⁴ Similar results were there in study by Selva.²⁵ Thus for medicines prescribed for type 2 diabetes there was high percentage variation in our study and was also shown by other studies.

HbA1c was done only by seven patients in our study, While HbA1c is the gold standard test around the world for insulin initiation and intensification but it is not easily available to a large section of Indian population.²⁶

Literature review done by Yesudian had suggested that economic burden of diabetes can be reduced by improvement of universal healthcare coverage, improving the access to affordable medicines, and by early disease detection and treatments in OPD.²⁷ While study by Solli had suggested Patient organizations might play a role in developing guidelines for cost of illness studies and in high cost illness like diabetes, costs to the society may be helpful in devoting resources to diabetes prevention and research.²⁸

Majority of the cost in diabetes is preventable through improved diet, exercise and prevention of diabetes should be initiated worldwide and nationwide.²⁹ Thus knowing the cost will help in designing financial systems for diabetes related nationwide health programme. The health insurers, policy makers and other stakeholders could get a view and can form strategies to reduce the cost. Wide Percentage variations in medications need to be addressed. Importance of diabetes screening and prevention can be known in terms of cost effectiveness.

Limitations

The study was carried out in single center. As study was Cross sectional study there were higher chances of recall bias. Being a tertiary care Government hospital cost of medicines and physician visit were less.

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Conflict of interest: None declared

Ethical approval: The study was approved by the Institutional Ethics Committee (RCMG/CSMH/IEC/Q/16/03/07 dated 09/03/2016)

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ANNEXURE I (INFORMED CONSENT)

I have read the information given in the Informed Consent Document for this study titled

“Pharmacoeconomic evaluation in cost of illness in type 2 Diabetes Mellitus patients of India”

1. I have received an explanation of the nature, purpose, duration and expected effects of the study and what I will be expected to do.
2. I understand that my participation in the study is voluntary and that I may refuse to participate or may withdraw from the study anytime, without any penalty.
3. I agree not to restrict the use of any data or results that arise from this study provided such use is for scientific purpose only.
4. I understand that my identity will not be revealed in any publication.
5. I agree to take part in the above study.

Name of the participant Name of the person administering consent

Signature of the participant Signature of the person administering consent

Name of Legally Accepted Representative (LAR) Sign of LAR

Date of administering consent Date of administering consent

ANNEXURE II (DEMOGRAPHIC INFORMATION)

1. Name (Optional)
2. Age (yrs)
3. Gender
4. Type of Diabetes
5. Duration of Diabetes
6. Address: Urban/Rural
7. Accompanying Relative: Relation
8. Mode of Transport to the OPD: Train/Bus/Rickshaw/Other
9. Total cost of transport
10. Laboratory Investigations done: Enumerate with frequency and cost
11. Documented Fasting blood glucose values from the last report
12. Asso. Co-Morbid Disease: Hypertension/Hyperlipidemia/Others
13. Complications: (D. Nephropathy/D. Retinopathy/D. Enteropathy/D. Foot/Others)
14. Annual Visits to OPD in last one year:
15. No. of Admissions in last one year due to diabetes:
16. No of OPD visits other than the current OPD:

If yes reasons:

17. Work absence
18. If accommodation, Cost of accommodation:
19. Time loss of patient
20. Time loss of accompanied person
21. Payment of paid caregivers

ANNEXURE III (KUPPUSWAMY'S SOCIOECONOMIC STATUS SCALE)

Tick in the appropriate box

A. Education

Sr. No	Education	Score	Tick
1	Profession Of Honours	7	
2	Graduate Or Postgraduate	6	
3	Intermediate Or Post High School Diploma	5	
4	High School Certificate	4	
5	Middle School Certificate	3	
6	Primary School Certificate	2	
7	Illiterate	1	

B. Occupation

Sr. No	Occupation	Score	Tick
1	Profession	7	
2	Semi profession	6	
3	Clerical shop owner	5	
4	Skilled worker	4	
5	Semi-skilled worker	3	
6	Unskilled worker	2	
7	Unemployed	1	

C. Income

Sr. No	Family Income per capita	Score	Modified FOR 2007	Tick
1	=2000	12	=19575	
2	1000-1999	10	9788-19574	
3	750-999	6	7323-9787	
4	500-749	4	4894-7322	
5	300-499	3	2936-4893	
6	101-499	2	980-2935	
7	<100	1	<979	

D. Total Score

Total score	Socio economic class	Tick
26-29	Upper I	
16-25	Upper middle II	
11-15 middle	Lower middle III	
5-10 lower	Upper lower iv	
<5	Lower V	

ANNEXURE IV (MEDICATIONS INFORMATION)

Antidiabetic medications:

Sr. No	Generic name of the drug	Branded name of the drug	Frequency of the drug	Dose of the drug	Total monthly cost	Total monthly cost
1						

Other medications:

Sr. No	Generic name of the drug	Branded name of the drug	Frequency of the drug	Dose of the drug	Total monthly cost	Total monthly cost
1						

Medicines From Other Branches (Ayurvedic/Homeopathic/Unani/Other)

Sr. No	Branded name of the drug	Frequency of the drug	Dose of the drug	Total monthly cost	Total monthly cost
1					

Percentage Variability:

Sr. No	Minimum cost	Maximum cost	Difference between minimum and maximum	Percentage variation
1				