

Table 1 Statistics of the direct medical cost & direct non-medical cost in USD

Parameter	Direct medical cost in USD (DMC): CMS+CDT+CD+CH				Direct non-medical cost in USD (DNMC): CT+CSD+APE				INMC	Overall cost (OC): DMC+DNMC+INMC		
Type of Cost	CMS	CDT	CD	CH	DMC	CT	CSD	APE	DNMC	-	OCT	OCT/PD
Mean	21.3	14.8	47.5	131.1	186.4	6.2	18.6	14.6	39.5	82.7	308.2	54.8
Median	21.2	14.8	47.5	142.6	188.5	6.3	16.8	14.6	39.1	63.0	295.6	46.1
SD	3.9	2.6	0.1	47.0	57.0	2.4	7.7	3.5	8.8	74.3	78.4	36.6
Minimum	4.1	8.4	47.5	20.4	56.8	1.4	1.2	1.8	16.8	9.5	92.7	29.2
Maximum	32.3	22.0	47.5	285.3	386.5	14.0	44.2	26.0	65.5	719.9	952.7	603.9
Missing	0	0	0	0	0	0	0	0	0	7	0	0
N	1914	215	1914	1914	1914	1914	1914	1914	1914	1914	1914	1914

CMS: Cost of medical supplies and equipment is in USD, CDT: Cost of diagnostic tests in USD, CD: Cost of dialysis in USD /per session, CH: Cost of hospitalization in USD, DMC: Direct medical cost in USD, CT: Cost of transport in USD, CSD: Cost of special diet in USD, APE: Another pocket expenses in USD, DNMC: Direct non-medical cost in USD, INMC: Indirect non-medical cost- loss of income in USD, OCT: Overall cost of the treatment in USD, OCT/PD: Overall cost of the treatment per day in USD

Table 2 Codes and value label used in GML for FBS, RBS, HbA1c, BPS, BPD on admission

Particular	SPSS Code	Value Label	N
Fasting blood sugar distribution of the patient at admission	4	231-260 mg/dl	293
	5	261-290 mg/dl	1480
	6	> 290 mg/dL	141
Random blood sugar distribution of the patient at admission	5	261-290 mg/dL	71
	6	Above 290 mg/dL	1843
HbA _{1c} distribution of the patients on admission	1	Normal: Below 42 mmol/mol (6.0%)	40
	2	Prediabetes: 42 to 47 mmol/mol (6.0 to 6.4%)	111
	3	Diabetes: 48 mmol/mol (6.5% or over)	1763
BP Systolic distribution of the patient on admission	3	140 to 159 mmHg- Stage I hypertension	1
	4	160 to 179 mmHg - Stage II hypertension	125
	5	180 to 209 and above mmHg- Stage III hypertension	1787
BP Diastolic distribution of the patient on admission	0	< 80 mmHg - Normal	17
	1	80 - 84 mmHg - Prehypertension	57
	2	85 - 89 mmHg - Prehypertension	144
	3	90 - 99 mmHg - Stage I hypertension	654
	4	100 - 109 mmHg- Stage II hypertension	755
	5	110- 119 mmHg- Stage III hypertension	261
	6	>120 mmHg- Hypertensive crisis	25

Table 3 Descriptive Statistics: GLM: BP systolic & BP diastolic of the patient on admission with the length of stay in days and overall cost of the treatment per day

Variable	BP Systolic on admission	BP Diastolic on admission	Length of stay in days			Overall cost of treatment per day		
			Mean	SD	N	Mean	SD	N
Length of stay in days & overall cost of treatment per day	140 to 159 mmHg- Stage I hypertension	110- 119 mmHg- Stage III hypertension	14.00	.	1	31.19	-	1
		< 80 mmHg - Normal	4.15	1.51	13	72.39	20.75	13
		80 - 84 mmHg - Prehypertension	3.78	1.34	23	71.15	26.79	23
	160 to 179 mmHg - Stage II hypertension	85 - 89 mmHg - Prehypertension	4.80	1.86	41	58.47	19.34	41
		90 - 99 mmHg - Stage I hypertension	4.95	2.78	22	100.21	104.84	22
		100 - 109 mmHg- Stage II hypertension	4.91	1.70	11	66.71	21.79	11
		110- 119 mmHg- Stage III hypertension	4.53	1.68	15	61.49	14.29	15
		< 80 mmHg - Normal	3.50	2.38	4	74.08	34.69	4
	180 to 209 mmHg- Stage III hypertension	80 - 84 mmHg - Prehypertension	5.44	1.84	34	53.87	13.04	34
		85 - 89 mmHg - Prehypertension	5.51	1.95	103	54.67	17.26	103
		90 - 99 mmHg - Stage I hypertension	6.17	2.03	632	53.18	28.29	632
		100 - 109 mmHg- Stage II hypertension	6.71	2.15	744	54.99	37.33	744
		110- 119 mmHg- Stage III hypertension	7.51	2.64	245	53.01	52.01	245
		>120 mmHg- Hypertensive crisis	9.04	2.96	25	43.92	11.81	25
		< 80 mmHg - Normal	4.00	1.69	17	72.79	23.43	17
	Total	80 - 84 mmHg - Prehypertension	4.77	1.84	57	60.84	21.34	57
		85 - 89 mmHg - Prehypertension	5.31	1.94	144	55.75	17.89	144
		90 - 99 mmHg - Stage I hypertension	6.13	2.07	654	54.76	34.63	654
		100 - 109 mmHg- Stage II hypertension	6.68	2.16	755	55.16	37.17	755
		110- 119 mmHg- Stage III hypertension	7.37	2.71	261	53.41	50.55	261
		>120 mmHg- Hypertensive crisis	9.04	2.96	25	43.92	11.81	25
		Total	6.43	2.30	1913	55.01	36.76	1913

Table 4 Descriptive statistics: FBS at admission, RBS at admission, and HbA1c on admission with the length of stay in days& overall cost of the treatment per day

Variable	FBS at admission	RBS at admission	HbA1c on admission	Length of stay in days			Overall cost of the treatment per day		
				Mean	SD	N	Mean	SD	N
Length of stay in days & Overall cost of the treatment per day	231-260 mg/dl	261-290 mg/dL	Normal: Below 42 mmol/mol (6.0%)	2.00	0.01	13	152.53	114.38	13
			Prediabetes: 42 to 47 mmol/mol (6.0 to 6.4%)	4.28	1.46	36	66.59	16.20	36
			Diabetes: 48 mmol/mol (6.5% or over)	5.23	1.87	22	52.96	9.47	22
		Above 290 mg/dL	Normal: Below 42 mmol/mol (6.0%)	3.71	2.36	7	95.75	35.35	7
			Prediabetes: 42 to 47 mmol/mol (6.0 to 6.4%)	3.97	1.61	33	71.07	23.95	33
			Diabetes: 48 mmol/mol (6.5% or over)	5.86	1.97	182	51.22	15.78	182
		Total	Normal: Below 42 mmol/mol (6.0%)	2.60	1.56	20	132.66	97.10	20
			Prediabetes: 42 to 47 mmol/mol (6.0 to 6.4%)	4.13	1.53	69	68.74	20.25	69
			Diabetes: 48 mmol/mol (6.5% or over)	5.79	1.96	204	51.41	15.22	204
	261-290 mg/dl	Above 290 mg/dL	Normal: Below 42 mmol/mol (6.0%)	4.05	2.39	20	98.53	45.48	20
			Prediabetes: 42 to 47 mmol/mol (6.0 to 6.4%)	4.26	1.82	42	76.95	28.38	42
			Diabetes: 48 mmol/mol (6.5% or over)	6.58	2.08	1418	53.44	37.62	1418
	> 290 mg/dL	Above 290 mg/dL	Diabetes: 48 mmol/mol (6.5% or over)	8.55	2.78	141	45.48	17.12	141
	Total	261-290 mg/dL	Normal: Below 42 mmol/mol (6.0%)	2.00	0.01	13	152.53	114.38	13
			Prediabetes: 42 to 47 mmol/mol (6.0 to 6.4%)	4.28	1.46	36	66.59	16.20	36
			Diabetes: 48 mmol/mol (6.5% or over)	5.23	1.87	22	52.96	9.47	22
		Above 290 mg/dL	Normal: Below 42 mmol/mol (6.0%)	3.96	2.34	27	97.81	42.44	27
			Prediabetes: 42 to 47 mmol/mol (6.0 to 6.4%)	4.13	1.72	75	74.36	26.52	75
			Diabetes: 48 mmol/mol (6.5% or over)	6.66	2.21	1741	52.57	34.74	1741
		Total	Normal: Below 42 mmol/mol (6.0%)	3.33	2.12	40	115.59	76.81	40
			Prediabetes: 42 to 47 mmol/mol (6.0 to 6.4%)	4.18	1.64	111	71.84	23.87	111
			Diabetes: 48 mmol/mol (6.5% or over)	6.64	2.22	1763	52.57	34.54	1763
		Total	Total	6.43	2.30	1914	55.00	36.75	1914

Table 5 Parameter estimates: Length of stay in days & overall cost of the treatment per day

Dependent Variable	Parameter	B	Std. Error	<i>t</i>	<i>Sig.</i>	B	Std. Error	<i>t</i>	<i>Sig.</i>
Length of stay in days & Overall cost of the treatment per day	Blood pressure category	Length of stay in days				Overall cost of the treatment per day			
	Intercept	9.04	.43	20.76	.001	43.92	7.31	6.00	.001
	[BPSACAT=140 to 159 mmHg]	6.57	2.18	3.01	.003	-21.31	36.63	-.58	.561
	[BPSACAT=160 to 179 mmHg]	-1.39	.22	-6.16	.001	17.22	3.80	4.52	.001
	[BPSACAT=180 to>209mmHg]	0 ^a	.	.	.	0 ^a	.	.	.
	[BPDACAT=< 80 mmHg]	-3.97	.70	-5.62	.001	15.69	11.85	1.32	.18
	[BPDACAT=80 - 84 mmHg]	-3.70	.53	-6.98	.001	9.97	8.90	1.12	.26
	[BPDACAT=85 - 89 mmHg]	-3.33	.47	-6.99	.001	6.93	7.99	.86	.03
	[BPDACAT=90 - 99 mmHg]	-2.86	.44	-6.46	.001	10.26	7.45	1.37	.01
	[BPDACAT=100 - 109 mmHg]	-2.33	.44	-5.28	.001	10.99	7.43	1.47	.02
Length of stay in days & Overall cost of the treatment per day	[BPDACAT=110 - 119 mmHg]	-1.61	.45	-3.54	.001	8.58	7.66	1.12	.02
	[BPDACAT=>120 mmHg]	0 ^a	.	.	.	0 ^a	.	.	.
	Blood glucose category	Length of stay in days				Overall cost of the treatment per day			
	Intercept	8.54	.17	48.11	.001	45.48	2.98	15.27	.0
	[FBSACAT=231-260 mg/dl]	-2.66	.23	-11.57	.001	5.53	3.86	1.43	.152
	[FBSACAT=261-290 mg/dl]	-1.97	.18	-10.62	.001	7.91	3.12	2.53	.011
	[FBSACAT=> 290 mg/dL]	0 ^a	.	.	.	0 ^a	.	.	.
	[RBSACAT=261-290 mg/dL]	-.25	.30	-.84	.397	6.93	5.13	1.35	.177
	[RBSACAT= Above 290 mg/dL]	0 ^a	.	.	.	0 ^a	.	.	.
	[HbA _{1c} < 42 mmol/mol]	-2.8	.35	-8.05	.001	61.14	5.86	10.42	.001
	[HbA _{1c} =42 to 47 mmol/mol]	-1.87	.22	-8.19	.001	17.68	3.84	4.60	.001
	[HbA _{1c} > 48 mmol/mol]	0 ^a	.	.	.	0 ^a	.	.	.

Table 6 Multivariate tests^a: Dependent variable: Length of stay in days & overall cost of the treatment per day

Effect		Value	<i>F</i>	Hypothesis <i>df</i>	Error <i>df</i>	<i>Sig.</i>
BPSACAT	Pillai's Trace	0.02	12.60	4.0	3808.0	.001
	Wilks' Lambda	0.97	12.66 ^b	4.0	3806.0	.001
	Hotelling's Trace	0.02	12.72	4.0	3804.0	.001
	Roy's Largest Root	0.02	24.01 ^c	2.0	1904.0	.001
BPDACAT	Pillai's Trace	0.08	14.45	12.0	3808.0	.001
	Wilks' Lambda	0.91	14.76 ^b	12.0	3806.0	.001
	Hotelling's Trace	0.09	15.06	12.0	3804.0	.001
	Roy's Largest Root	0.09	29.51 ^c	6.0	1904.0	.001
FBSACAT	Pillai's Trace	.081	40.4	4.0	3816.0	.001
	Wilks' Lambda	.919	41.2 ^b	4.0	3814.0	.001
	Hotelling's Trace	.088	42.0	4.0	3812.0	.001
	Roy's Largest Root	.086	82.3 ^c	2.0	1908.0	.001
RBSACAT	Pillai's Trace	.001	.93 ^b	2.0	1907.0	.027
	Wilks' Lambda	.999	.93 ^b	2.0	1907.0	.027
	Hotelling's Trace	.001	.93 ^b	2.0	1907.0	.027
	Roy's Largest Root	.001	.93 ^b	2.0	1907.0	.027
HbA _{1c} AddC	Pillai's Trace	.084	41.59	4.0	3816.0	.001
	Wilks' Lambda	.917	42.08 ^b	4.0	3814.0	.001
	Hotelling's Trace	.089	42.57	4.0	3812.0	.001
	Roy's Largest Root	.078	74.61 ^c	2.0	1908.0	.001

a. Design: Intercept + BPSACAT + BPDACAT+BSACAT+RBSACAT+HbA_{1c}AddC

b. Exact statistic

c The statistic is an upper bound on F that yields a lower bound on the significance level.

BPSACAT: Blood pressure systolic on admission, BPDACAT: Blood pressure diastolic on admission, FBSACAT: Fasting blood suger on admission, RBSACAT: Random blood suger on admission, HbA_{1c}AddC: HbA_{1c} on admission

Table 7 Test between subject: Dependent variable: Length of stay in days & overall cost of the treatment per day

Source	Dependent Variable	Type III Sum of Squares	df	Mean Square	F	Sig.
BPSACAT	Length of stay in days	224.3	2	112.16	23.67	.001
	Overall cost of the treatment per day	150022127.722	2	75011063.86	10.43	.001
BPDACAT	Length of stay in days	640.4	6	106.74	22.53	.001
	Overall cost of the treatment per day	30602671.2	6	5100445.20	0.70	.021
FBSACAT	Length of stay in days	636.6	2	318.3	71.5	.001
	Overall cost of the treatment per day	46285464.9	2	23142732.4	3.4	.030
RBSACAT	Length of stay in days	3.1	1	3.1	0.7	.029
	Overall cost of the treatment per day	12283707.5	1	12283707.5	1.8	.027
HbA _{1c} AddC	Length of stay in days	513.1	2	256.5	57.6	.001
	Overall cost of the treatment per day	797070322.4	2	398535161.2	59.2	.001

BPSACAT: Blood pressure systolic on admission, BPDACAT: Blood pressure diastolic on admission, FBSACAT: Fasting blood suger on admission, RBSACAT: Random blood suger on admission, HbA_{1c}AddC: HbA_{1c} on admission