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RESEARCH ARTICLE

SOCIO- DEMOGRAPHIC PROFILE AND COST INCURRED BY THE PATIENTS ADMITTED UNDER AB-NHPM SCHEME AT A TERTIARY CARE HOSPITAL

Anam Iqbal¹, Farooq A. Jan², Ifrah Khalil³ and Ammar Illahi Khan⁴

1. Senior Resident Department of Hospital Administration, SKIMS.
2. Professor Department of Hospital Administration, and Medical Superintendent, SKIMS.
3. Senior Resident Department of Hospital Administration, SKIMS.
4. Diploma Gynae-Obstetrics, Infertility Specialist.

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Abstract

Investment in healthcare is a necessary social investment. Ayushman Bharat Yojana- National Health Protection Scheme (AB-NHPM) in September 2018 that was rolled out across all states/UTs in all districts of the country. The aim of this programme was to provide a service to create a healthy and content new India.

Objectives: To determine the socio demographic profile of patients admitted under AB-NHPM and the cost incurred by these patients during a study period of one year from November 2019 to November 2020.

Methodology: Retrospective and prospective observational record study was conducted on patients admitted under Ayushman Bharat category.

Results: Out of 1900 retrospective patients studied and 1433 prospective group of patients majorly people belonging to lower income groups, elderly and those belonging to rural areas availed the benefit.

Conclusion: Lot has been done and further more needs to be done to extend this scheme to cater to a wider range of ailments.

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Introduction:-

The Indian health care system is characterized by high rates of privatization since 1960s, with low penetration of voluntary and social health insurance schemes, and a high frequency of out of pocket payments with only around 15% of the country population covered by some degree of health insurance^{1,2,3}. Investment in healthcare is a necessary social investment so that, despite omnipresent destitution, majority of Indians can realize a good health and contribute vehemently to growing economy. Thus financing of healthcare is of paramount importance so as to deliver quality and affordable healthcare services in the country, thus different modes of patient financial assistance programmes should be explored.⁴

Ayushman Bharat Yojana- National Health Protection Scheme (AB-NHPM) in September 2018 that was rolled out across all states/UTs in all districts of the country. The aim of this programme was to provide a service to create a healthy and content new India.

Corresponding Author:- Ifrah Khalil

Address:- Senior Residents Department of Hospital Administration, SKIMS.

Objectives:-

1. To study Socioeconomic, Demographic and Disease profile of patients admitted under Pradhan Mantri Jan Arogya Yojana (PM-JAY) popularly known as Ayushman Bharat Scheme.
2. To study cost incurred on patients treated under Pradhan Mantri Jan Arogya Yojana (Ayushman Bharat Scheme).

Materials and Methods:-

This study was carried out at a tertiary care institute of India which provides quality health care to the patients and is a center for research and training for the students.

Study Setting:

The study was carried out in the Wards and AB-PMJAY office of this tertiary care hospital.

Study Duration:

Retrospective study was conducted for a period of six months from June 2019 till December 2018. Subsequently, a prospective study was carried out for a period of one year from November 2019 till November 2020.

Study Design:

Retrospective and prospective observational record study was conducted on patients admitted under Ayushman Bharat category. The study was done based on the interview of patients (regarding their family income, educational status) interview of patient attendants and study of records. It also included the observations made by the researcher.

Study Tool:

In-patient case record of patients admitted under Ayushman Bharat category. Interviews conducted on relevant stakeholders which include Ayushman Bharat office staff using Semi-structured questionnaire.

Questionnaire

Telephonic interview of patients regarding family income, Educational status.

Inclusion Criteria:

1. Patients admitted under Ayushman Bharat category whose hospital stay was more than 24 hrs were included.
2. Patients admitted in Day care ward under Ayushman Bharat category for chemotherapy and haemodialysis were also included in the study.

Exclusion Criteria:

1. Those patients who had golden card but were admitted for investigation purpose only.
2. All those patients who had golden card but visited hospital on OPD basis.

Patients admitted for organ transplantation were excluded, as they were not included in the pack

The methodology which was adopted to attain the required objectives is as follows:-

Objective-1

To study socioeconomic, demographic and disease profile of patients admitted under Ayushman Bharat scheme.

Retrospective study of six months was carried out from June 2019 till December 2018. Patient's identification and some background information like age, gender, golden card number, residential address, literacy level, socio-economic status was recorded from the case files available in the Ayushman Bharat office and MRD section. The study population included all the patients admitted under Ayushman Bharat category during the above mentioned period.

Prospective study of one year from November 2019 till November 2020 was carried out by study of daily records available in wards, Ayushman Bharat

office and MRD section. Patient selection was done by enrolling 30% of the total number of patients admitted per day with the help of simple random sampling based on a pilot study. All the relevant data about the Ayushman Bharat category patients admitted in different wards was collected and analysed.

Objective-2

To study cost incurred on patient treated under Ayushman Bharat scheme.

Retrospective study of six months from June 2019 till December 2018 was conducted. It included review of previous records related to costs incurred on patient treatment prior to hospitalisation, hospitalisation expenses and 15 days post hospitalisation. Study population for retrospective study included all the patients admitted under Ayushman Bharat category during the above mentioned period. During retrospective study HBP 1.0 was prevalent, so during this study period HBP 1.0 was applied.

Prospective study of one year from November 2019 till November 2020 was carried out. Patient selection was done by enrolling 30% of the total number of patients admitted per day with the help of simple random sampling based on a pilot study. Patient's hospital stay charges, investigation costs, emergency drug counter charges, sales drug counter charges, medicine charges including outside approved sources was collected on daily basis by visiting wards and Ayushman Bharat office. During our prospective study, major period of study was covered under HBP 2.0 so this health benefit package was applied to our results.

Results and Observations:-

Objective:-

To study socioeconomic, demographic and diseases profile of patients admitted under Ayushman Bharat scheme.

Retrospective study:

A total of 1900 patients were studied from June 2019 till December 2018.

Table1:- Age distribution of study patients.

	Frequency(n=1900)	Percentage
<18 years	350	18.5%
18-40 years	400	21.0%
40-60 years	550	28.9%
>60	600	31.6%
Total	1900	100.0%

Table2:- Genderwise distribution of study patients.

Gender	Frequency(n=1900)	Percentage
Male	1050	55.3%
Female	850	44.7%
Total	1900	100.0%

Table3:- Educational status of study patients.

Education	Frequency(n=1900)	Percentage
Illiterate	1100	57.8%
Matriculate	500	26.4%
Graduate	200	10.5%
Postgraduate	100	5.3%
Total	1900	100.0%

Table4:- Residentialstatusofstudypatients.

Residentialstatus	Frequency(n=1900)	Percentage
Rural	1320	69.5%
Urban	580	30.5%
Total	1900	100.0%

Table5:- Occupationstatusofstudypatient.

Occupation	Frequency(n=1900)	Percentage
Selfemployed	1100	57.8%
Governmentservice	800	42.2%
Total	1900	100.0%

Table6:- Socioeconomicstatusof studypatient.

Socioeconomicstatus	Frequency(n=1900)	Percentage
Upperclass	0	0%
Uppermiddleclass	0	0%
Lowermiddleclass	260	13.6%
Lowerclass	1640	86.4%
Total	1900	100.0%

Table7:- Departmentwisedistributionofcases.

Department	Frequency(n=1433)	Percentage
Cardiology	180	12.6%
CVTS	75	5.3%
Nephrology	200	13.9%
MedicalOncology	300	20.9%
Medicine	200	13.9%
Others	478	33.4%
Total	1433	100.0%

Average cost of expenditure spend on patients admitted under ABPMJAY in RupeesRetrospectiveStudy:Sample Size1900Patients

Objective 2: To study cost incurred on patients treated under Ayushman Bharat Scheme

Table8:- ShowingTable 8:Costincurredonpatientstreatment duringRetrospectivestudy (inINR).

Disease/surgeries	HospitalStay	Investigationscharges	Drugsandconsumables			Outofpocketexpenditure	AveragePackageAmount
			Hospital pharmacy	Empanelled pharmacy	Cat h lab		
CKD/ESRD	1281	4506	5082	18441	Nil	2461	26849
Solidorganmalignancies	2052	15067	12051	34022	Nil	5022	58170
Leukemia	2109	1200	84	2308	Nil	2111	43584

		5	5 6	9			
Myocardialinf arction	5 5 0	27 41	1 5 6 2	1 2 9 7	60 48 4	213 4	64500
Heartblock	2 4 5	32 05	1 2 3 2	4 0 2 8	12 03 34	401 5	125029
Valvularabnor malities	12 47	52 40	6 3 4 0	85 23 8	Nil	237 0	95695
Medicalemerg encies	1 5 0	21 55	2 1 0 7	4 2 8 2	Nil	204 1	6653
GeneralSurgeri es	3 9 0	23 42	5 4 3 2	14 05 2	Nil	150 2	20714
CongenitalAno malies	2 5 0	23 00	8 4 1 2	32 34 5	Nil	306 2	40245
PediatricAbdo minal Surgeries	7 8 0	11 29	5 4 3 2	14 05 2	Nil	321 1	18182
EDH/SDH/SA H	3 6 0	32 40	5 2 0	61 08 4	Nil	266 1	62543
Others	5 0 0	22 08	2 5 6 6	75 59 1	Nil	323 9	77626

Prospective Study: Sample Size 1433 Patients**Table 9:-** Showing Cost incurred on patient's treatment during Prospective study (in INR).

Disease/surge ries	Hospit al Stay	Investigati on char ges	Drugs and consumab les			Out of pocket expenditure	Average Pack age Amount
			Hospit al pharma cy	Empanel led pharma cy	Cath lab		
CKD/ESRD	2 3 4 3	4506	9 8 4 5	3 4 2 5 6	N i l	45 29	46421
Solid organ ma	3	27598	2	6	N	98	110726

lignancies	9 8 6		1 0 0 3	8 0 0 4	i l	65	
Leukemia	4 8 7 6	25134	1 5 3 0 0	4 9 0 2 3	N i l	49 80	89353
Myocardialinf arction	9 3 0	1966	3 4 0 0	2 2 9 7	6540 0	51 34	73993
Heartblock	2 4 5	3205	1 2 3 2	4 0 2 0	1606 82	42 55	165129
Valvularabnor malities	2 8 9 3	6239	6 9 2 8	8 9 2 3 1	N i l	45 08	100873
MedicalEmer gencies	9 5 0	2681	2 8 4 6	4 4 9 1	N i l	28 44	8124
PediatricAbdo minal surgeries	1 7 0 7	5121	8 2 3 1	1 2 9 6 4	N i l	85 21	19502
Congenital`A nomalies	7 5 0	3378	9 2 6 5	3 6 4 9 6	N i l	36 12	46277
GeneralSurger ies	1 5 2 0	4314	4 8 6 4	8 9 3 6	N i l	62 70	13364
EDH/SDH/S AH	2 5 0 0	4089	9 7 8	6 6 0 0 7	N i l	48 62	68712
Others	1 6 5 0	2904	4 5 4 8	7 9 0 3 7	N i l	47 24	83415

Discussion:-

In the current scenario, when the discussion of 'how' to achieve UHC is the focus of attention, this study attempts at encapsulating the existing evidence.^{5,6} Our study is amongst the pioneer comprehensive reviews which focus on publicly financed health insurance programme in India.

The aim of the present study was to study the socio demographic, disease profile under Ayushman Bharat Yojana (PM-JAY) in our Institute. It was found that there is a positive affirmation that the utilization of hospital care services has improved since the inception of the PM-JAY scheme. As it had been observed that more number of cases/procedures were done after initiation of Ayushman Bharat Yojana. For example in cardiology department more procedures like PCI, PPM placements have been performed.

The result and observations of the study have been exhibited as tables and graphs and are discussed as follows:

To study socioeconomic demographic and disease profile of the patients admitted under Ayushman Bharat scheme.

In the retrospective study, it is found that out of total 1900 beneficiaries, 1050 (55.3%) were males, and 850 (44.7%) were females. In prospective study out of total 1433 beneficiaries 876 (61.2%) were males and 557 (38.8%) were females. In a recent study conducted by Sukhvinder Ka ur (et al.) in 2019 regarding Ayushman Bharat Scheme, it was found that pre-authorisation claims for all packages show a male (51.5%) predominance.⁷

It was found that the maximum number of beneficiaries were in the age group of >60 Years (31.6%), followed by those in the age group of 40-60 years (28.9%). The minimum number of beneficiaries were in the age group of <18 years (18.5%). Also it was found that maximum number of beneficiaries were in age group of >60 years (38.4%) followed by those in the age group of 41-60 years (34.8%). The minimum number of beneficiaries was in the age group of <18 years (9.2%).

The present study had majority of patients from rural areas (69.5% in retrospective study and 59.8% in prospective study). Kesavan Sreekantan Nair et al.⁸ in their study observed that 60% of patients are from rural areas. In the present study majority of patients were illiterate (57.8% in retrospective and 48.8% in prospective study) followed by matriculate (26.4% in retrospective study) and graduate (26.4% in prospective study). The minimum number of patients were postgraduates (5.3% in retrospective and 6.9% in prospective study).

In the present study majority of patients (86.4% in retrospective and 71.3% in prospective) belonged to lower class. Majority of patients (57.8% in retrospective and 54.5% in prospective study) were self-employed. (18.5% in retrospective and 20.9% in prospective study) cases were from medical oncology department. Least number of cases were from Department of CVTS (7.8% in retrospective and 5.3% in prospective study).

To study cost incurred on patients treated under Ayushman Bharat Scheme.

Chronic Kidney disease: During Retrospective study it was observed that an average cost of hospital stay for CKD patients was Rs.1281, Investigation charges were Rs.4506, drug and consumables were Rs.23523. In addition to it OOP expenditure was Rs.2461. According to Health benefit package 1.0 CKD patients receive a total benefit of Rs.35,000, while in prospective study average cost of hospital stay for CKD patients was Rs.2343, Investigation charges were Rs.4506. Drug and consumables were Rs.44101. In addition to it OOP expenditure was Rs.4529. According to Health benefit package 2.0 CKD patients receive a total benefit of Rs.40,000.

Solid organ Malignancies:

During Retrospective study it was observed that an average cost of hospital stay for Solid organ malignancy patients was Rs.2052, Investigation charges were Rs.15067. Drug and consumables were Rs.36,073. In addition to it OOP expenditure was Rs.5022. According to Health benefit package 1.0 Solid organ Malignancies patients receive a total benefit of Rs.80,000. while in prospective study average cost of hospital stay for Solid organ malignancy patients was Rs.3986, Investigation charges were Rs.27598, drug and consumables were Rs.89007. In addition to it OOP expenditure was Rs.9865. According to Health benefit package 2.0 solid organ malignancy patients receive a total benefit of Rs.85,000.

Leukaemia:

It was observed that an average cost of hospital stay for Leukaemia patients was Rs.2109, Investigation charges were Rs.12005, drug and consumables were Rs.31545. In addition to it OOP expenditure was Rs.2111, According to Health benefit package 1.0 leukaemia patients receive a total benefit of Rs.80,000. while in prospective study average cost of hospital stay for leukaemia patients was Rs.4876, Investigation charges were Rs.25134. Drug and

consumables were Rs.64323. In addition to it OOP expenditure was Rs.4980. According to Health benefit package 2.0 leukaemia patients receive a total benefit of Rs.90,000.

Myocardial Infarction:

During Retrospective study it was observed that an average cost of hospital stay for Myocardial Infarction patients was Rs.550, Investigation charges were Rs.2741, drug and consumables were Rs.63343. In addition to it OOP expenditure was Rs.2134, According to Health benefit package 1.0 Myocardial patients receive a total benefit of Rs.60,000 (single stent) and 1,10,000 (double chamber) while in prospective study average cost of hospital stay for Myocardial Infarction patients was Rs.930, Investigation charges were Rs.1966, drug and consumables were Rs.65400. In addition to it OOP expenditure was Rs.5134. According to Health benefit package 2.0 Myocardial patients receive a total benefit of Rs.70,000 (single stent) and 1,20,000 (double chamber).

Heart Block:

An average cost of hospital stay for Heart Block patients was Rs.245, Investigation charges were Rs.3205, drug and consumables were Rs.125594. In addition to it OOP expenditure was Rs.4015, According to Health benefit package 1.0 heart block patients on an average receive a total benefit of Rs.1,15,000 while in prospective study average cost of hospital stay for heart block patients was

Rs.245, Investigation charges were Rs.3205, drug and consumables were Rs.165934. In addition to it OOP expenditure was Rs.4255. According to Health benefit package 2.0 heart block patients on an average receive a total benefit of Rs.1,25,000.

Valvular Abnormalities during Retrospective study it was observed that an average cost of hospital stay for patients with valvular abnormalities was Rs.1247, Investigation charges were Rs.5240. Drug and consumables were Rs.91578. In addition to it OOP expenditure was Rs.2370, According to Health benefit package 1.0 patients with valvular abnormalities on an average receive a total benefit of Rs.1,00,000. while in prospective study average cost of hospital stay for patients with valvular abnormalities was Rs.2893, Investigation charges were Rs.6239, drug and consumables were Rs.96159. In addition to it OOP expenditure was Rs.4508. It was also found that the HBP rates for valve replacement surgery are appropriate to the expenditure incurred on investigations, hospital charges, medicines, consumables and implants by the hospital. Similar results were also reported in a study conducted by Shankar Prinja (et al.) in 2019 regarding the costing of valvular heart disease at a Tertiary care Hospital in North India, which supports the HBP rates of the valve replacement surgery using mechanical and bio-prosthetic valves in Ayushman Bharat. HBPs are planned to cover highly prevalent diseases and the ailments, which constitute a huge amount of OOP (out of pocket expenditure).⁹

According to Health benefit package 2.0 patients with valvular abnormalities on an average receive a total benefit of Rs.1,50,000.

Medical Emergencies:

Average cost of hospital stay for patients with medical emergencies was Rs.150, Investigation charges were Rs.2155, drug and consumables were Rs.6389. In addition to it OOP expenditure was Rs.2041, According to Health benefit package 1.0 patients with medical emergencies receive an average total benefit of Rs.11,000. while in prospective study average cost of hospital stay for patients with medical emergencies was Rs.950, Investigation charges were Rs.2681. Drug and consumables were Rs.7337. In addition to it OOP (out of pocket expenditure) expenditure was Rs.2844. According to Health benefit package 2.0 patients with medical emergencies receive an average total benefit of Rs.15,000.

Congenital Abnormalities:

It was observed that an average cost of hospital stay for patients with Congenital abnormalities was Rs.250, Investigation charges were Rs.2300, drug and consumables were Rs.40757. In addition to it OOP (out of pocket expenditure) was Rs.3062, According to Health benefit package 1.0 patients with congenital anomalies receive an average total benefit of Rs.60,000, while in prospective study average cost of hospital stay for patients with congenital abnormalities was Rs.750, Investigation charges were Rs.3378, drug and consumables were Rs.46121. In addition to it OOP expenditure was

Rs.3612.According to

Health benefit package 2.0 patients with congenital anomalies receive an average total benefit of Rs.70,000.

EDH/SDH/SAH:

During Retrospective study it was observed that an average cost of hospital stay for patients with EDH/SDH/SAH was Rs.360, Investigation charges were Rs.3240, drug and consumables were Rs.61604. In addition to it OOP expenditure was Rs.2661, According to Health benefit package 1.0 for patients with EDH/SDH/SAH receive average total benefit of Rs.50,000. while in prospective study average cost of hospital stay for patients with EDH/SDH/SAH was Rs.2500, Investigation charges were Rs.4089, drug and consumables were Rs.66985. In addition to it OOP (out of pocket expenditure) was Rs.4862. According to Health benefit package 2.0 for patients with EDH/SDH/SAH receive average total benefit of Rs.60,000.

General Surgeries:

Average cost of hospital stay for patients was Rs.390, Investigation charges were Rs.2342, drug and consumables were Rs.19484. In addition to it OOP expenditure was Rs.1502, According to Health benefit package 1.0 for patients undergoing general surgeries receive average total benefit of Rs.20,000, while in prospective study average cost of hospital stay for patients was Rs.1520, Investigation charges were Rs.4314, drug and consumables were Rs.13800. In addition to it OOP (out of pocket expenditure) was Rs.6270. According to Health benefit package 2.0 for patients undergoing general surgeries receive average total benefit of Rs.25,000.

Pediatric Abdominal Surgeries:

During Retrospective study it was observed that an average cost of hospital stay for patients undergoing pediatric abdominal surgeries was Rs.780, Investigation charges were Rs.1129, drug and consumables were Rs.19484. In addition to it OOP expenditure was Rs.3211, According to Health benefit package 1.0 for patients undergoing pediatric abdominal surgeries with receive average total benefit of Rs.25,000. while in prospective study average cost of hospital stay for patients undergoing pediatric abdominal surgeries was Rs.1707, Investigation charges were Rs.5121, drug and consumables were Rs.21195. In addition to it OOP (out of pocket expenditure) was Rs.8521. According to Health benefit package 2.0 for patients undergoing pediatric abdominal surgeries with receive average total benefit of Rs.30,000.

In a study conducted by Narayanan Devadasan (et al.) in 2006 regarding two community health insurance schemes in India providing hospitalisation expenses i.e., ACCORD in Tamil Nadu and SEWA in Gujarat, it was depicted that with the introduction of community health insurance schemes, 67% and 34% of beneficiaries did not have to pay any OOP for their hospitalisation at ACCORD and SEWA respectively.¹⁰ Reduction of OOP and financial risk due to health expenditure by poor and vulnerable population is one of the main objectives of

Ayushman Bharat Scheme. Secondary and tertiary hospitalisation contributes to one-third of total OOP (out of pocket expenditure) (NHSRC, 2016).¹¹

The scheme has reduced the out of pocket expenditure, but has not been able to completely eliminate it. The patients are availing benefits as per the packages, and cross subsidies are not being provided reason being the number of patients covered under this scheme is wide-ranging. Moreover, the hospital is bound to clear the liabilities including the salary of the staff employees.

Conclusion:-

In tertiary care hospitals patients are sick with their illness complicated. For tertiary care hospitals the (TAT) should be relaxed, as patients need time for final diagnosis. Period prior to definite package should be treated as medical package. The package amount is too low for some procedure's and as such the basic concept of this scheme of cashless treatment is not achieved. Patients under surgical package remain admitted in hospital for long time and have to spend on their medical treatment after their surgical procedure's are completed. Many procedures are not included in the packages which need to be updated.

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