

INTRODUCTION

Faisalabad Institute of Cardiology, Faisalabad was inaugurated on Tuesday 13th November 2007. This institute is Tertiary level specialized autonomous institution for cardiac diseases. It consists of 202 beds. The institute is functioning under the provision of Punjab Medical and Health Institute ACT-2003 and rules made their under. It is situated at Club Road, opposite Chenab Club, Faisalabad.

The Hospital is providing services to Cardiac patients of District Faisalabad and its adjacent Districts like Sargodha, Toba Tek Singh, Jhang, Chiniot and beyond areas.

The *objectives* of this Tertiary care Cardiac Center are:

1. To provide the best possible cardiac diagnostic and treatment facilities to the people of Faisalabad and adjoining areas.
2. Improve Cardiac Health care facilities in this region.
3. Provide facilities of highly specialized nature of Cardiac Care.
4. Act as a referral center for the central Punjab and adjacent areas.
5. Train medical, paramedical personnel and nurses to improve capacity building in this field.
6. Provide research facilities in cardiology and cardiac surgery.
7. Become a center of initiating public health awareness programs to prevent cardiac diseases.
8. Provide training in all Cardiac specialties to medical graduate.
9. Attract patients and research workers for advanced and specialized training and research work.

AREA

The Honorable Chief Minister Punjab during his visit on 01.11.2009 very kindly allocated 67 Kanals of land of old DIG House for establishment of residential colony for the staff of this institute.

Hospital

Total Land Area allocate for Faisalabad Institute of Cardiology is as.

Main Building	11.57 Acre
Residential	67 Kanals
Total covered area	228525 Sq.ft
Hostels	
Doctors Hostel	40671 Sq.ft.
Nursing Hostel	32801 Sq.ft

Main Building

The main building of Faisalabad Institute of Cardiology, Faisalabad consists of.

Basement:

- Stores
- HAVC
- Lt/Ht (Electric Steps)
- Compressor Room (Control Gas Supply)

Ground Floor consists of:

- Emergency Department
- Out Patient Department
- Pathology Department
- Radiology Department
- Angiography Department
- Nuclear Cardiology Department.
- Echo. Department
- ETT Department
- ECG Department
- Social Welfare
- Blood Bank
- CCUs
- Pharmacy
- Stores
- Admission and Discharge Cell
- Record Room
- Receptions
- Canteen

1st Floor consists of:

- Administration Block
- Operation Theaters
- ICU
- IICU
- Paeds ICU
- Isolation Ward
- Pre-Operative Ward
- Post-Operative Ward
- CSSD
- Library
- Conference Room
- Auditorium
- IT Department
- Telephone Exchange
- CCTV Control Room

2nd Floor consists of:

- Cardiac Surgery General Ward
- Cardiac surgery Private Ward

3rd Floor consists of:

- Cardiology General Ward
- Cardiology Private Ward

Residential colony is planned to establish adjacent to Doctor and Nursing Hostel. PC-I for sixteen houses (first floor) has been approved and contraction work will be start soon.

BOARD OF MANAGEMENT

FAISALABAD INSTITUTE OF CARDIOLOGY FAISALABAD.

Kh. Asem Khurshed	Chairman
Mr. Farooq Khan	Member
Mian Kamal- ud-Din	Member
Professor Dr. Wali Muhammad Saghar	Member
Dr. Shehla Zahid	Member
Dr. Sharmin Imran	Member

ADMINISTRATIVE STAFF

Associate Professor Dr. Anjum Jalal Executive Director	
Dr. Qais Mehmood Sikander Medical Superintendent.	Mr. Shahid Khalil Chatta Director Finance
Dr. Rai Zulfiqar Ali Additional Medical Superintendent (Development) Director Medical Education	Mr. Muhammad Hussain Naseem Deputy Director Finance
Dr. Muhammad Khalid Bhatti Addl: Medical Superintendent (Admin & Purchase)	Mrs. Bismallah Yaseen Deputy Chief Nursing
Dr. Muhammad Sajid Deputy Medical Superintendent (Admin)	Mrs. Anwari Khanum Nursing Superintendent

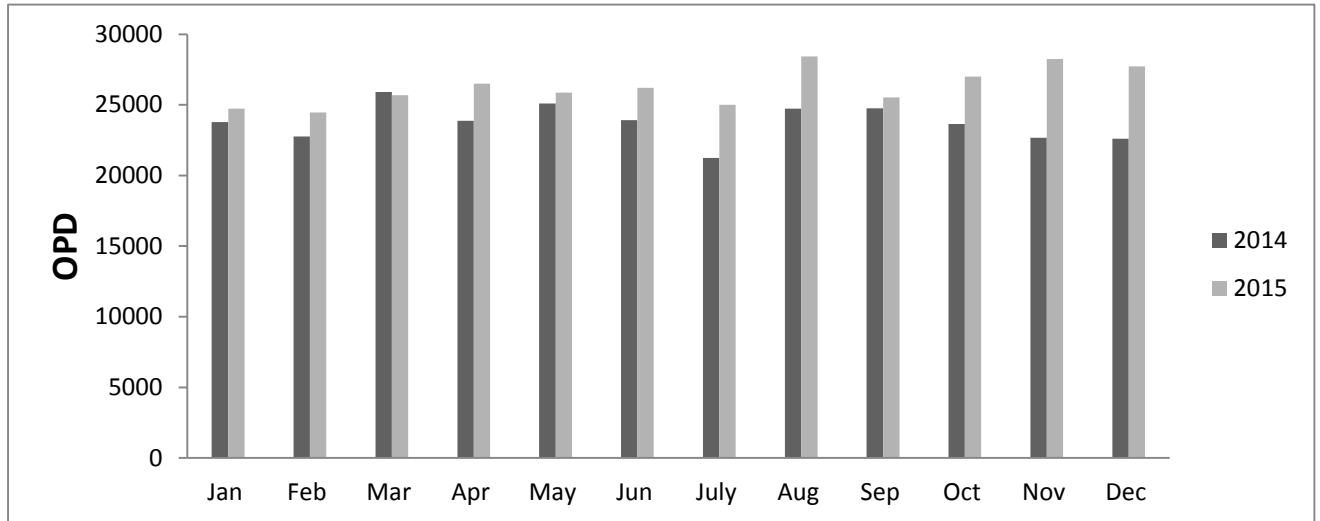
WARD WISE BED STRENGTH

FAISALABAD INSTITUTE OF CARDIOLOGY, FAISALABAD.

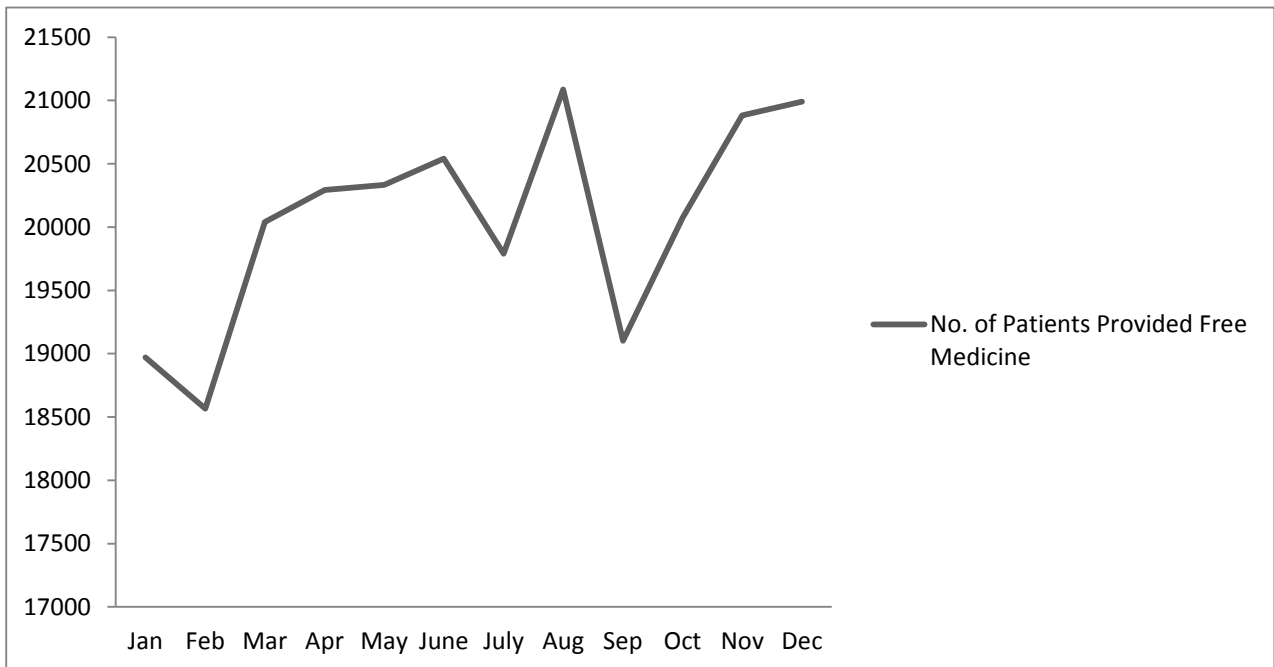
Sr. #	Name of Ward	Beds
1	Emergency	18
2	CCU-I	10
3	CCU-II	10
4	Angiography	10
5	Pre-Operative	6
6	ICU	9
7	IICU	11
8	Post Operative/ Recovery	7
9	Paeds Cardiac surgery	5
10	Isolation Ward	8
11	Dialysis	2
12	Cardiac Surgery General	28
13	Cardiac Surgery Private	25
14	Cardiology General	28
15	Cardiology Private	25
Total		202

OPD
OPD 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
2014	23775	22756	25902	23881	25094	23919	21239	24729	24747	23653	22671	22602	284968
2015	24729	24458	25682	26504	25872	26195	24992	28436	25528	26999	28233	27724	315352

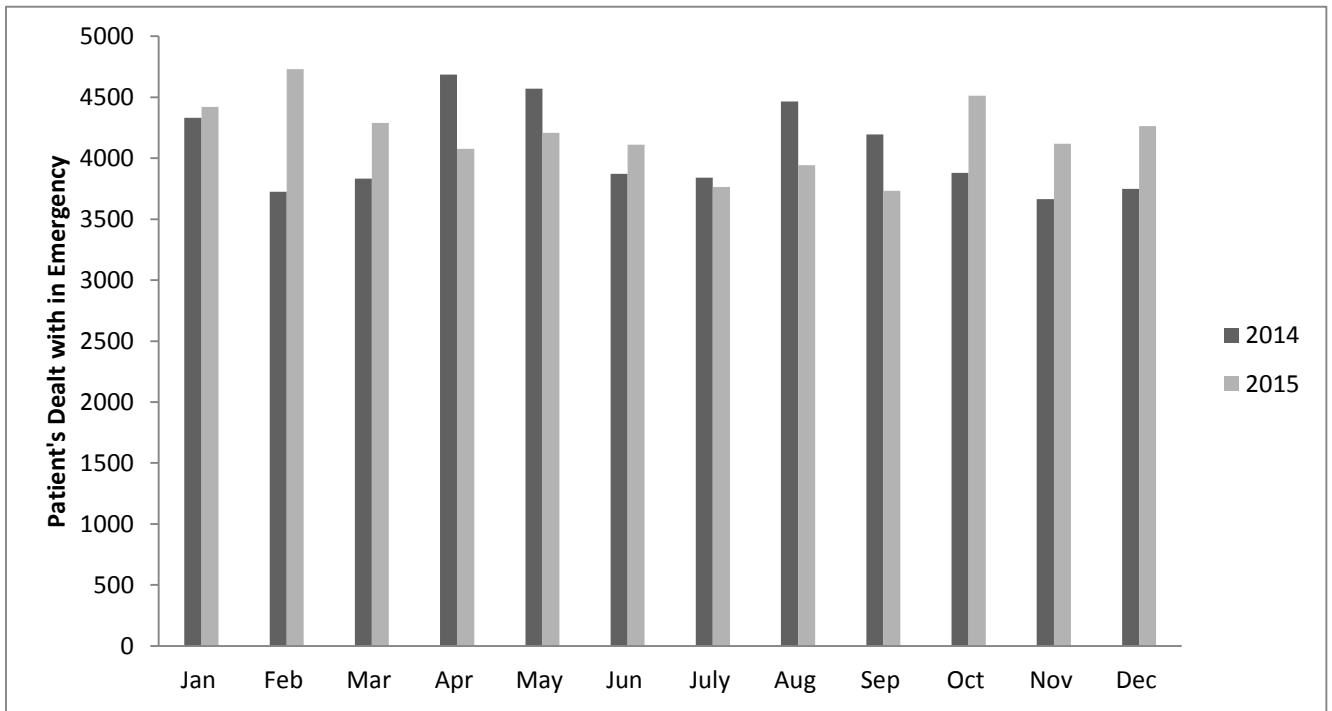


No. of Patients Provided Free Medicines in OPD - 2015



PATIENTS SERVICES REPORT
EMERGENCY DEPARTMENT
No. Patient's Dealt With In Emergency 2014-2015

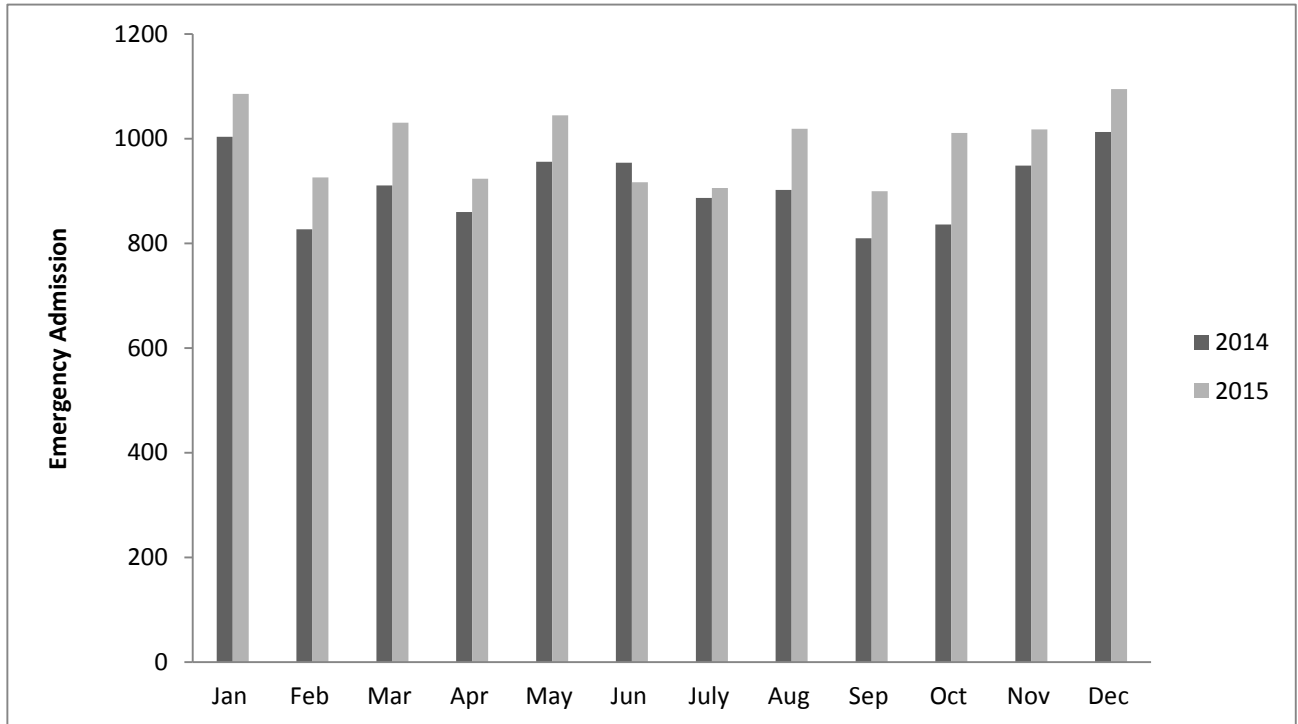
Year	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
2014	4331	3725	3833	4686	4569	3872	3840	4465	4194	3880	3665	3748	48808
2015	4421	4731	4290	4076	4207	4111	3764	3944	3732	4512	4118	4262	50168



Emergency Services are provided free of cost in Emergency Department

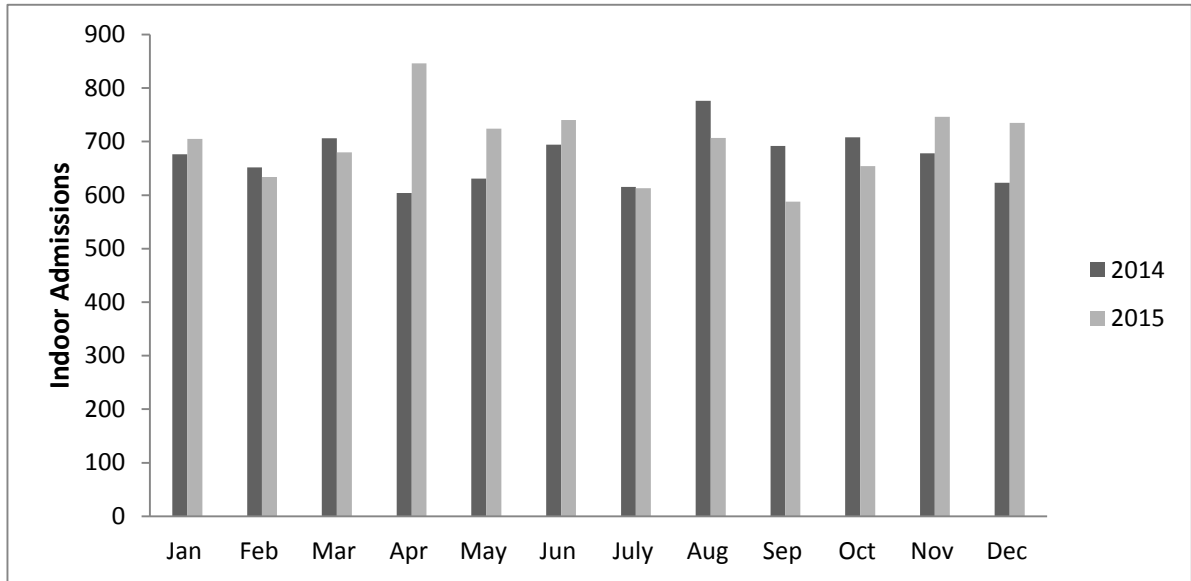
PATIENTS SERVICES REPORT
EMERGENCY ADMISSIONS 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
2014	1004	827	911	860	956	954	887	902	810	836	949	1013	10909
2015	1086	926	1031	924	1045	917	906	1019	900	1011	1018	1095	11878

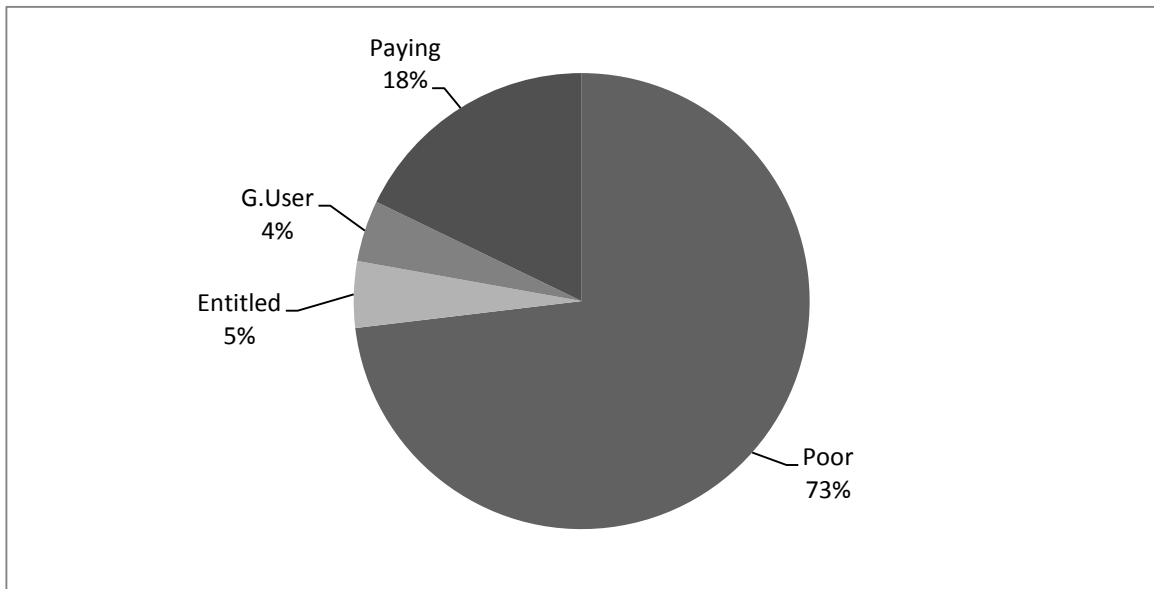


PATIENTS SERVICES REPORT
INDOOR ADMISSIONS 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
2014	676	652	706	604	631	694	615	776	692	708	678	623	8055
2015	705	634	680	846	724	740	613	707	588	654	746	735	8372



Categorization of Indoor Admission 2015

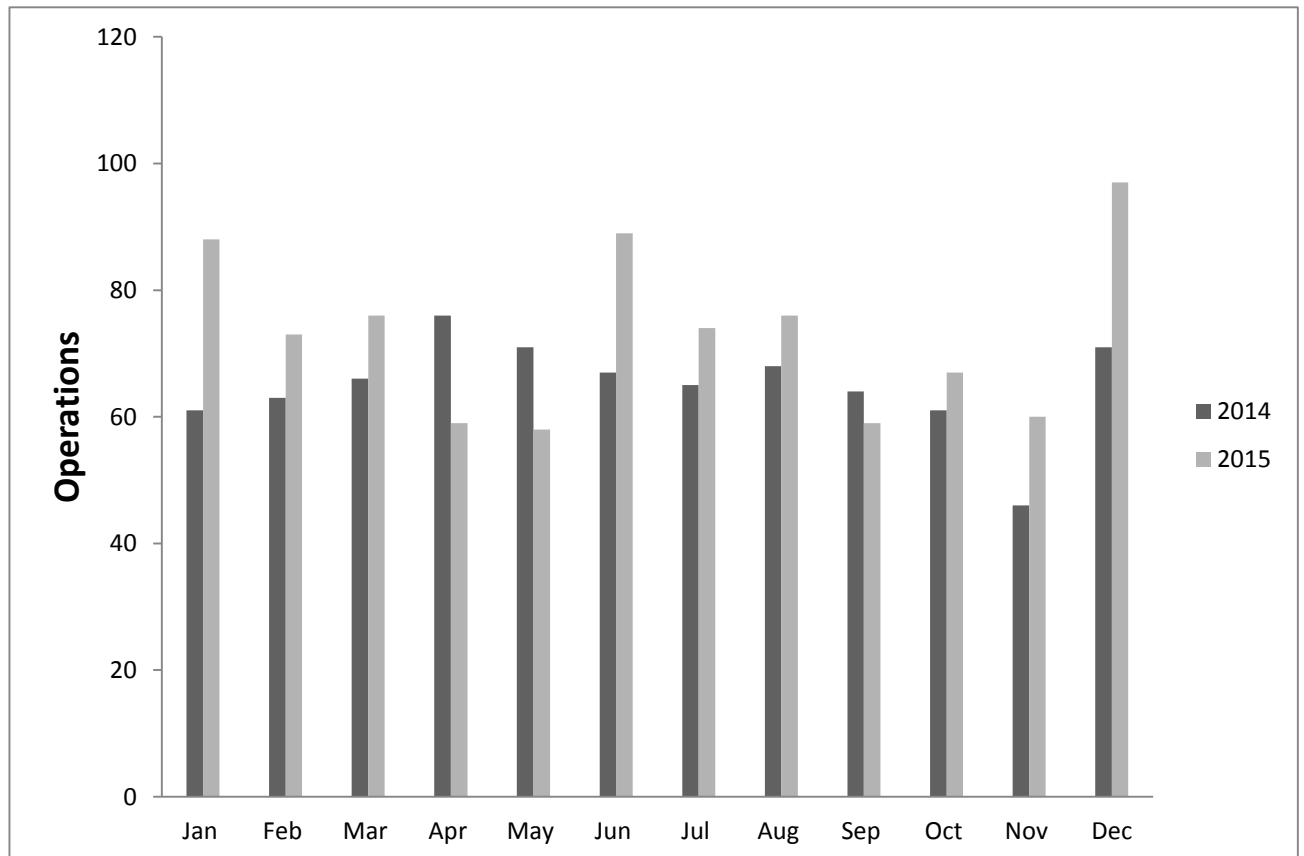


OPERATION THEATERS FOR CARDIAC SURGERY

05 well equipped Operation Theaters out of which 02 are modular operation theaters. The Cardiac Surgery Department was started in November 2009. The detail of Cardiac Surgery operations for the years 2014 and 2015 are shown in the table.

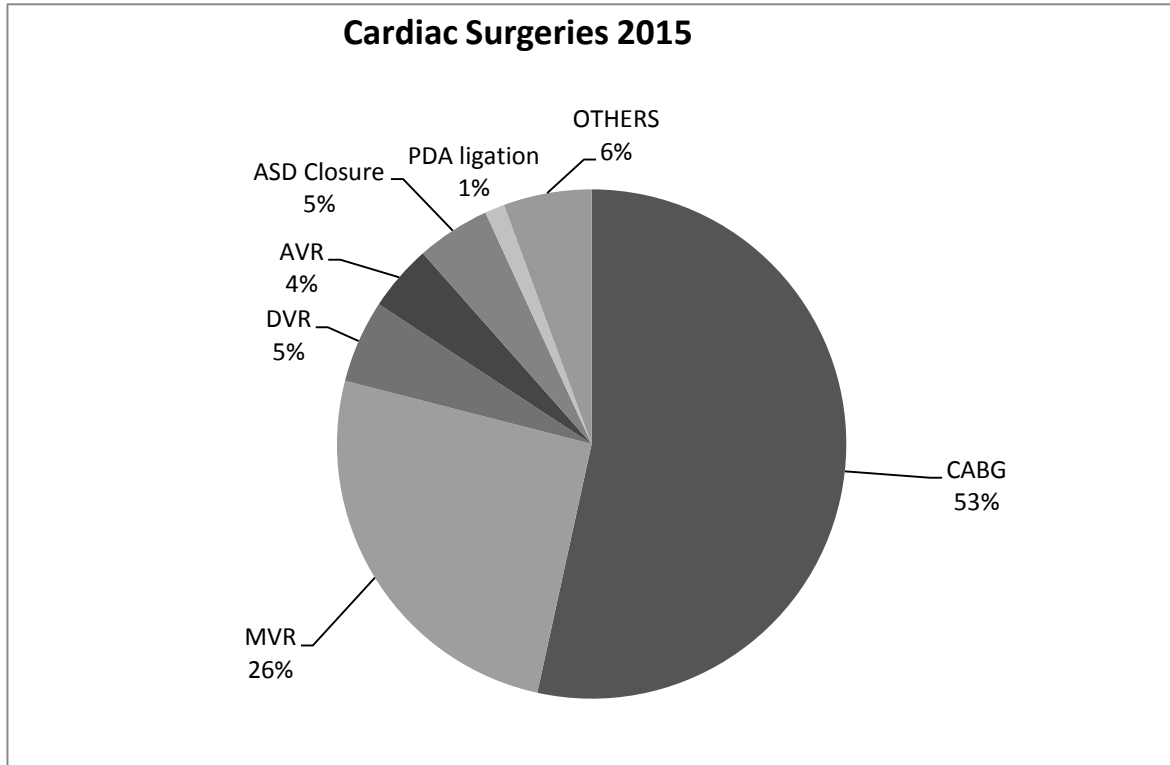
PATIENTS SERVICES REPORT CARDIAC SURGURY OPERATIONS 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	61	63	66	76	71	67	65	68	64	61	46	71	779
2015	88	73	76	59	58	89	74	76	59	67	60	97	876



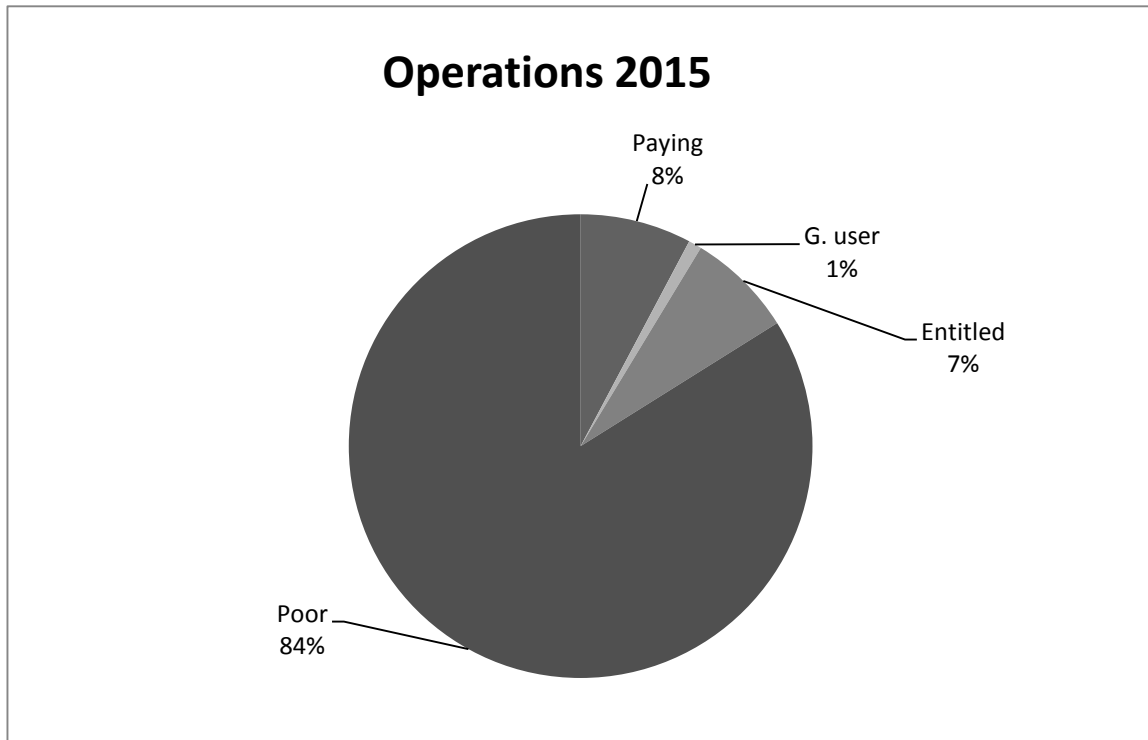
Cardiac Surgical Procedures - 2015

Name of procedure	CABG	MVR	DVR	AVR	ASD Closure	PDA ligation	OTHERS	Total
No Of Surgeries	468	224	46	37	41	11	49	876



Category Wise Cardiac Operations 2015

Patient's Category	Paying	G. user	Entitled	Poor	Total
No. of Operations	68	8	65	735	876



Diagnostic Services Report

Pathology Department

The Department of Pathology started functioning in August 2008. Total number of tests performed up to Dec 2015 is as follow

Year	2011	2012	2013	2014	2015
No. of Tests Performed	301364	432971	427471	438805	461442

Following is brief description of functioning of the pathology department of the hospital.

Department of pathology is running with four sections (hematology, clinical chemistry, microbiology and computer section). All sections are working with a supervisor and a section incharge. Emergency section is being improved for which the demand for additional equipments and necessary staff has been submitted.

Following equipments are working in the related sections

Hematology

- Sysmax-KX21
- Medonic M20

Electrolyte Analyzer

- Easylite (Meditec)
- Humalyte plus

Blood Gas Analyzer

- Cobas b121 (Roche – 4 units)
- Easy state (Meditec-2 units)

Routine Chemistry Analyzer

- Olympus AU400
- Hitachi 902

Special Chemistry Analyzer

- Elecsys 2010

Coagulation Analyzer

- Sysmax CA500 (Fully Automated)
- Haemaclot (Semi Automated)

Pathology department is also providing internship training to B.Sc Honors students in microbiology and for it, is affiliated with the following universities/Colleges are

1. University of Agriculture Faisalabad
2. Govt. College University Faisalabad
3. Faisalabad Medical College Faisalabad

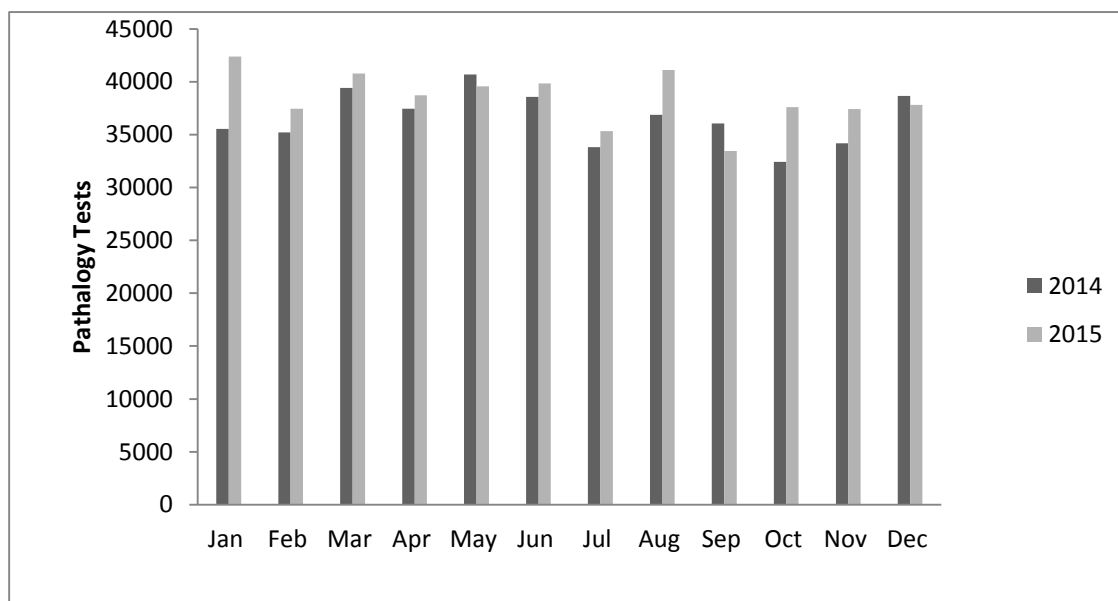
Future Plan:

- In the coming years, microbiology, emergency and hematology sections will be upgraded.
- Academic activities regarding technical education of paramedical staff regarding techniques, quality control and background knowledge

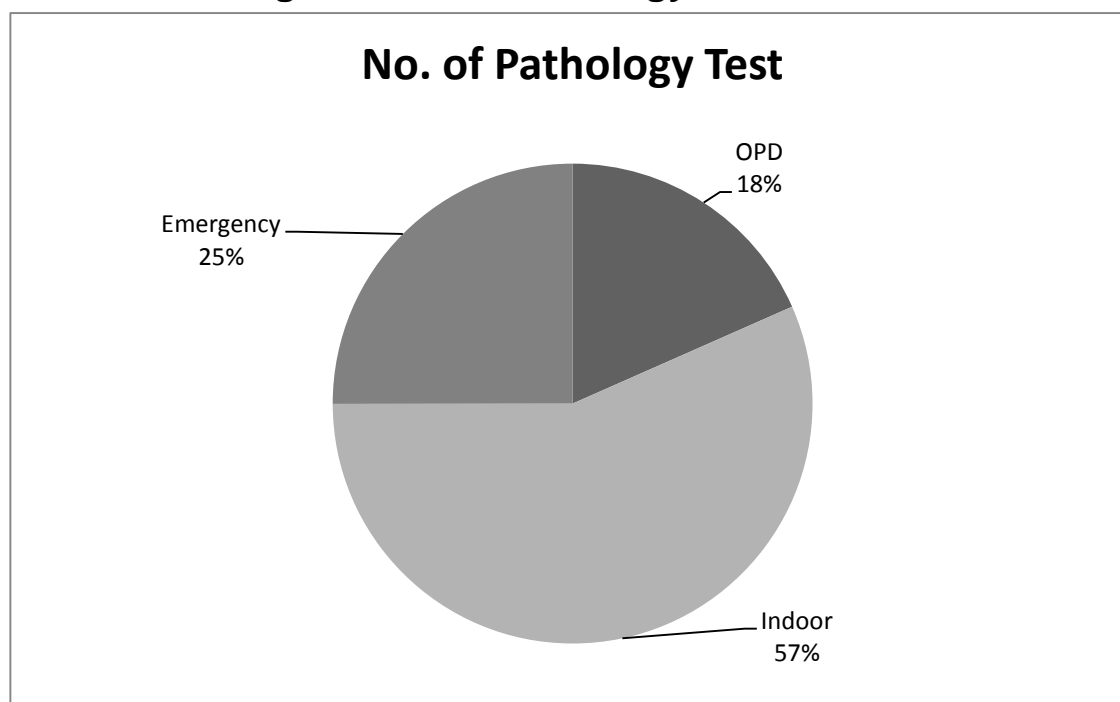
PATIENTS SERVICES REPORT

No. of Pathology Tests 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	35545	35191	39410	37434	40697	38559	33806	36869	36051	32407	34167	38669	438805
2015	42369	37444	40769	38707	39578	39826	35337	41116	33459	37604	37421	37812	461442



Categorization of Pathology Services 2015



MEDICAL SOCIAL WELFARE DEPARTMENT

The aim of Medical Social Services Project is to provide free medicine to the poor and deserving patients and follow up. The efforts are being made to rehabilitate them in the society so that they lead to respectable life.

Detail of Resources:-

Health Welfare Committee, Pakistan Bait-ul- Maal & Patients Welfare Society is the main source to provide medicine to the poor & needy. Department has been requested to enhance of funds to accommodate the poor patients of Cardiac Disease.

Date of Establishment:- 04-March-2009

Name of Officer:- Miss Asia Faqir Hussain

Progress Report for The Year 2014 and 2015

Activities/Services	2015
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1. Pakistan Bait-ul-Maal

i) No. Of Applications Prepared	-
ii) No. of Cases Approved By PBM	-
iii) Funds Received	-
iv) No. of Patients Treated	-
v) Expenditures	-

2. Zakat Fund

i) Amount Received in Rs.	4500000/-
ii) Total Number of Beneficiaries	56
iii) Expenditure	4480000/-
iv) Return to Zakat Department	20000/-

3. Heart Savers Foundation

i) No. of patients treated (Medicine)	189
ii) Expenditure in Rs.	7859673
iii) No. of PPM treated Heart Savers Foundation	48
Expenditure of PPM in Rs.	3840000/-

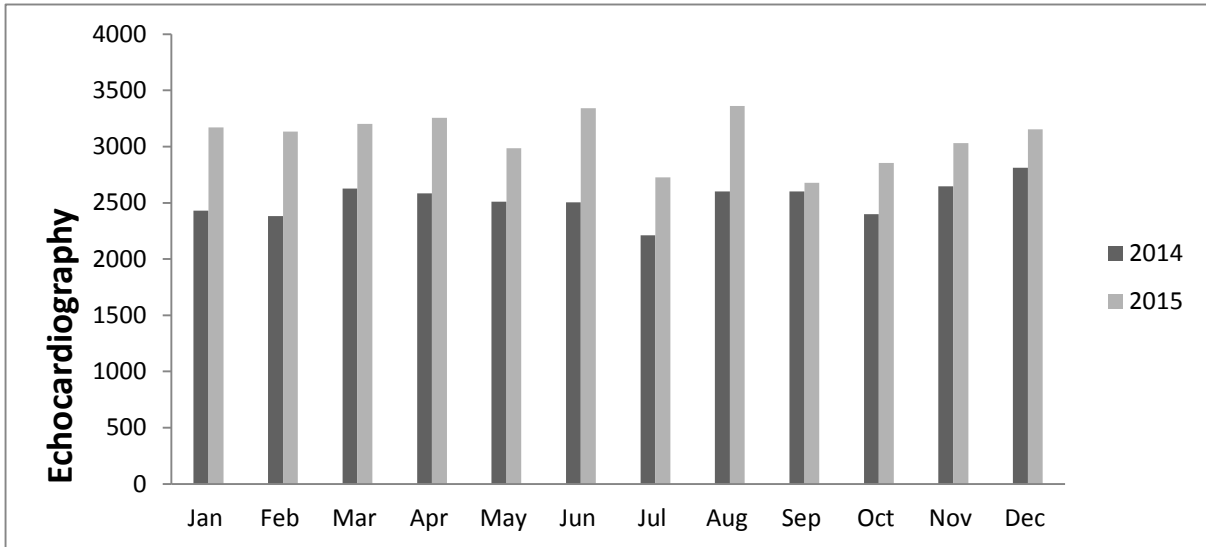
4. Other Activities

i) No. of Patients guided(Categories change process)	124
ii) No. of Case Histories Prepared	50
iii)Donate White Dad Body Sheet	727

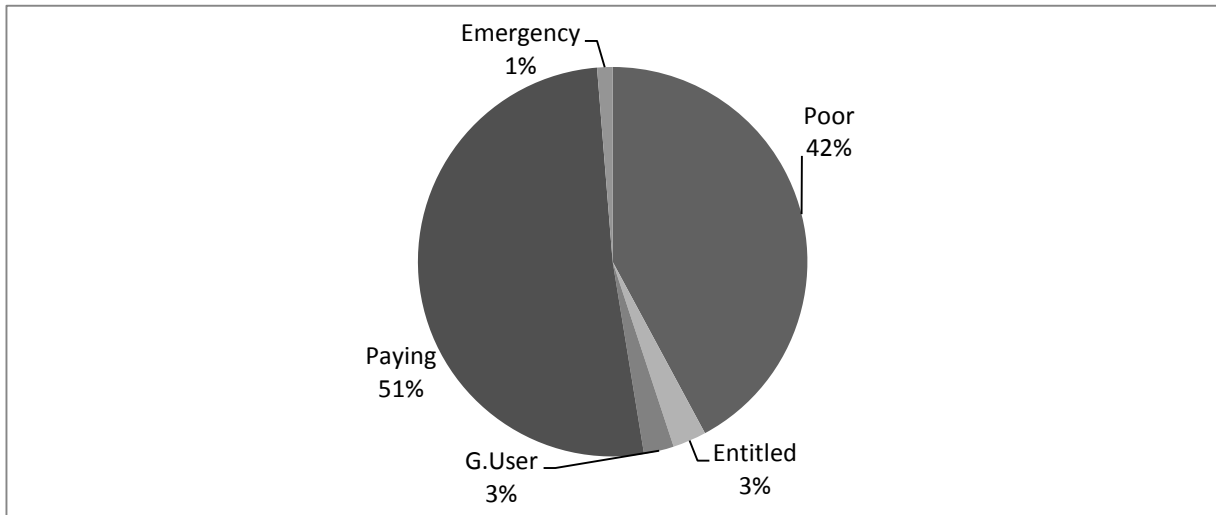
- Celebration of National Days, Eid Days, Eid – u- Malad Nabi)

PATIENTS SERVICES REPORT
ECHOCARDIOGRAPHY 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	2429	2383	2626	2584	2509	2503	2211	2601	2601	2398	2647	2812	30304
2015	3171	3135	3201	3255	2985	3341	2727	3361	2678	2855	3030	3153	36892

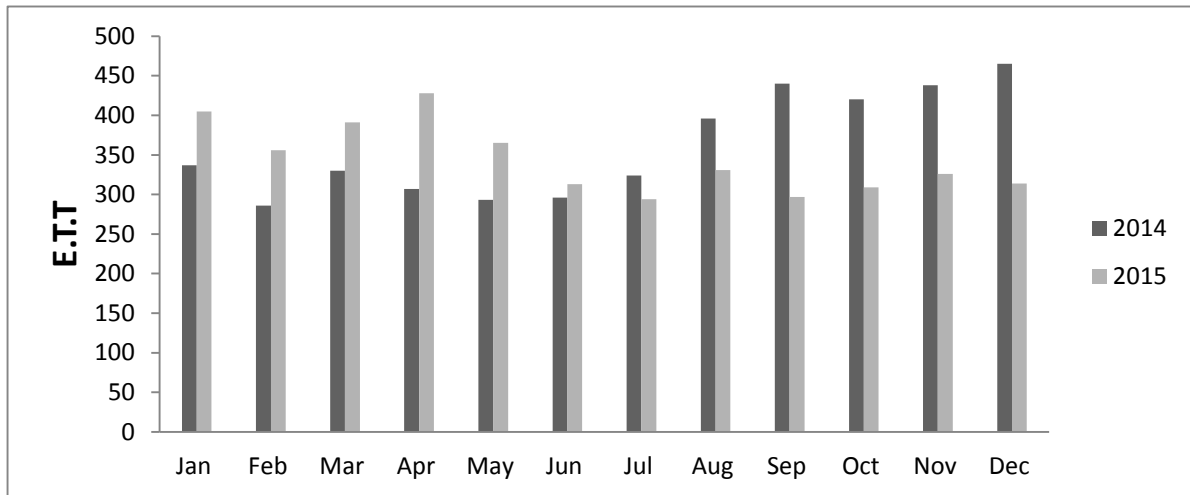


Categorization of Echocardiography Services 2015

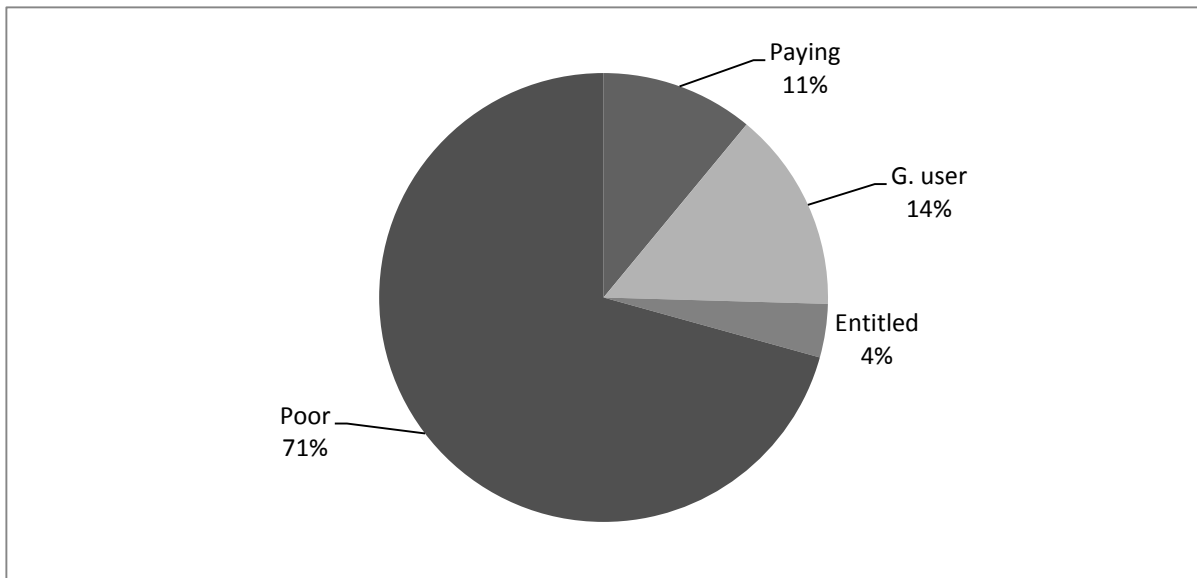


PATIENT'S SERVICES REPORT E.T.T 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	337	286	330	307	293	296	324	396	440	420	438	465	4332
2015	405	356	391	428	365	313	294	331	297	309	326	314	4129

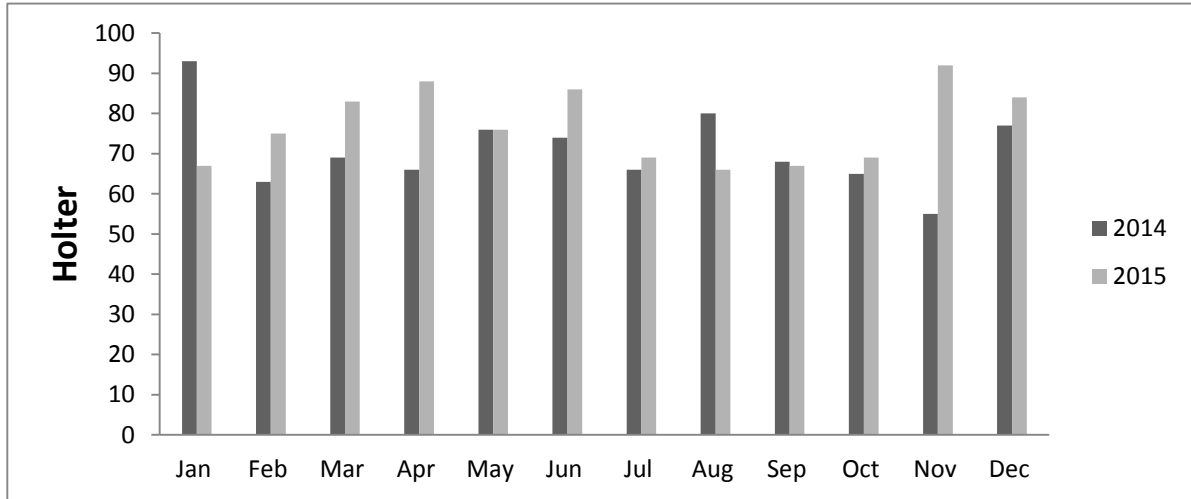


Categorization of E.T.T Services 2015

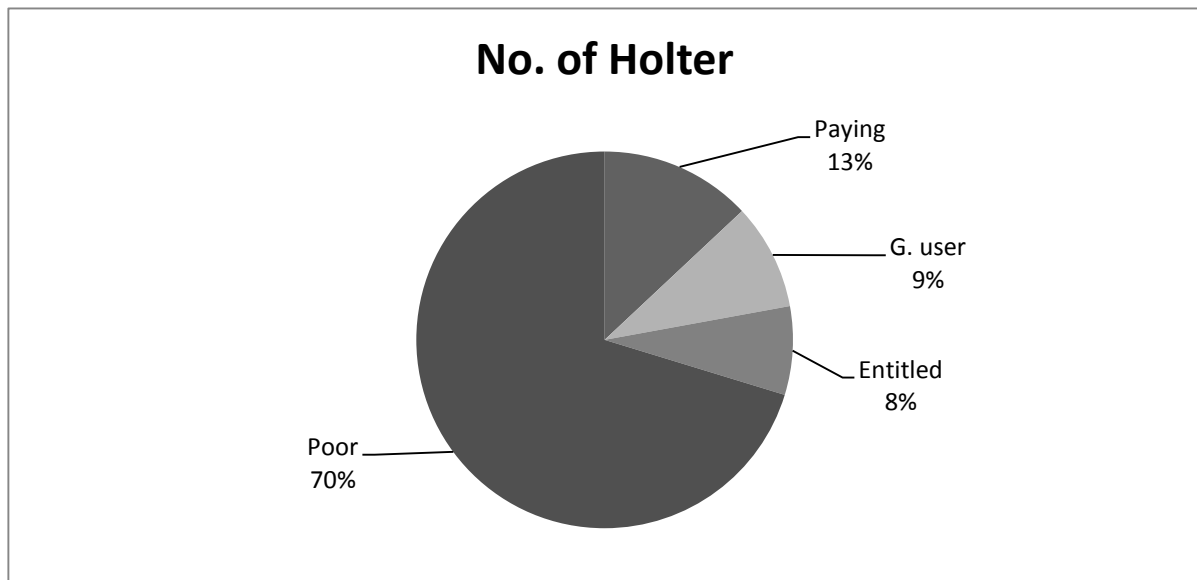


PATIENTS SERVICES REPORT
Holter 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	93	63	69	66	76	74	66	80	68	65	55	77	852
2015	67	75	83	88	76	86	69	66	67	69	92	84	922



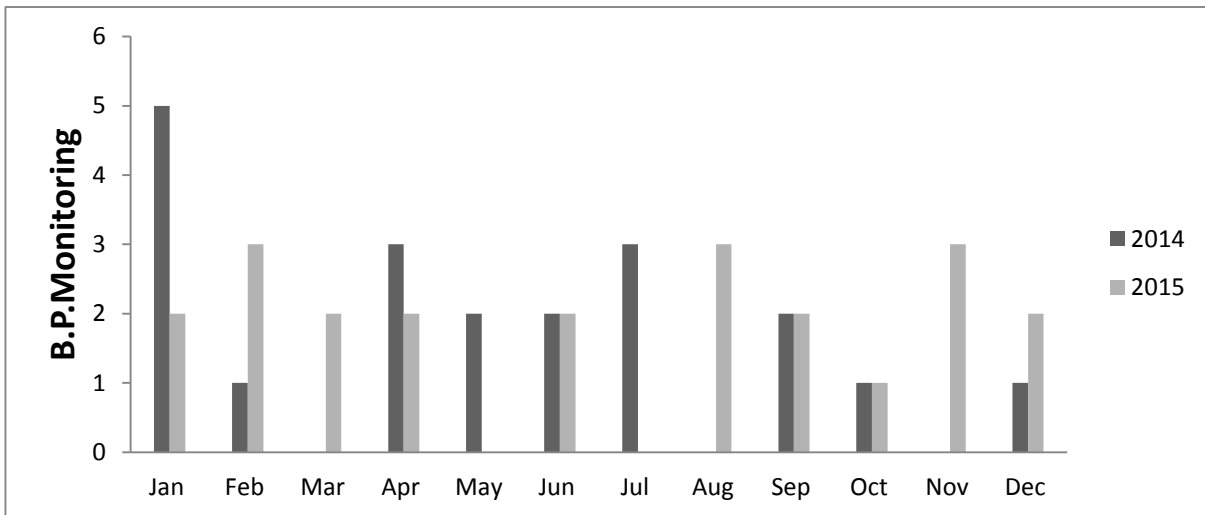
Categorization of Holter Services 2015



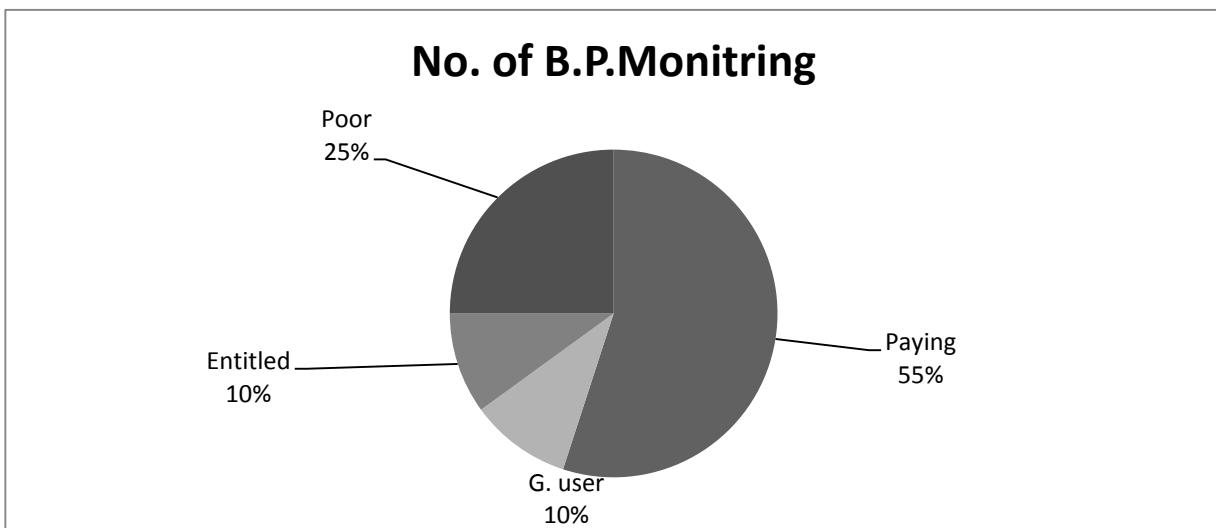
PATIENTS SERVICES REPORT

B.P. Monitoring 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	5	1	0	3	2	2	3	0	2	1	0	1	20
2015	2	3	2	2	0	2	0	3	2	1	3	2	22



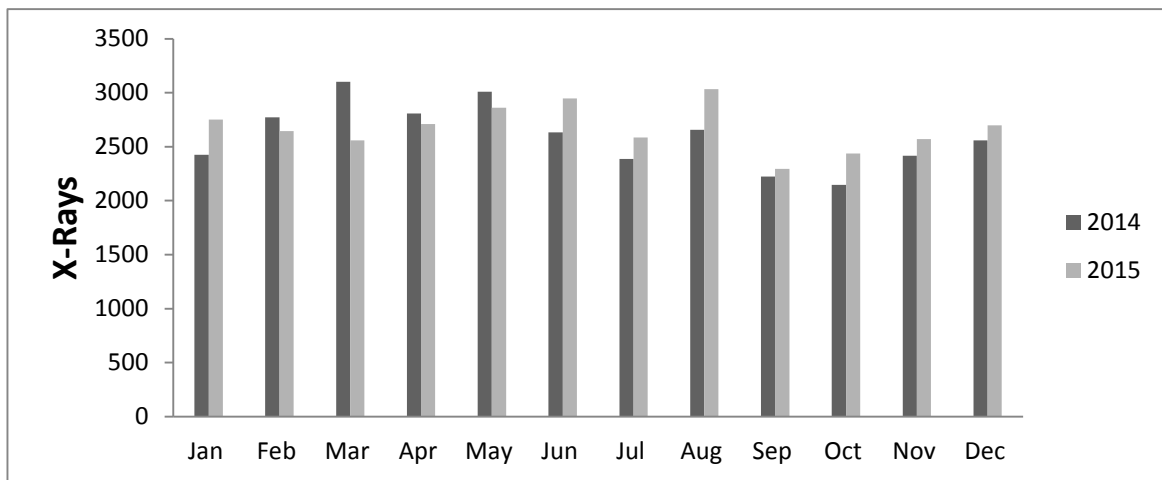
Categorization of B.P. Monitoring 2015



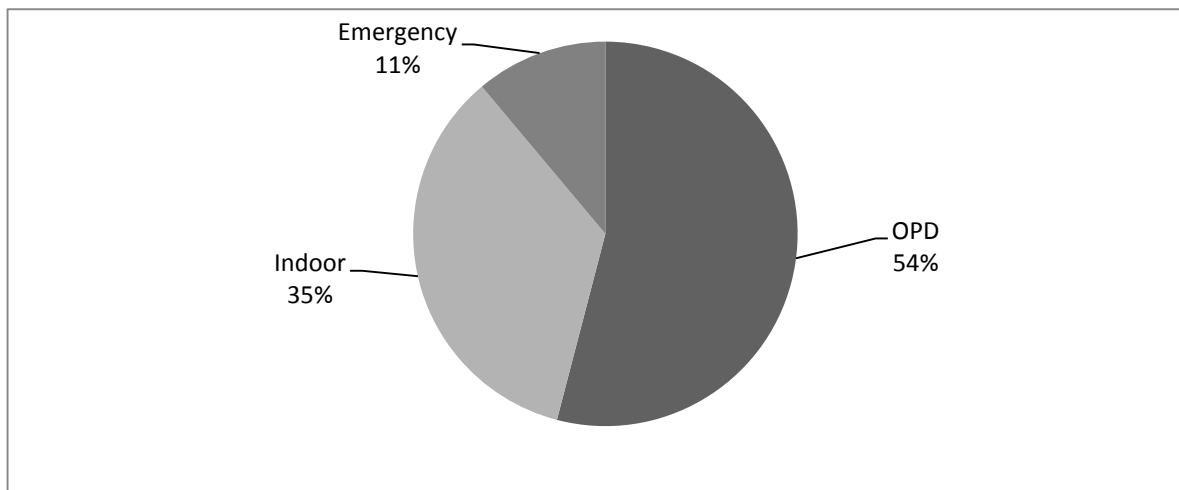
PATIENTS SERVICES REPORT
RADIOLOGY DEPARTMENT 2014-2015

X-Rays

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	2425	2771	3101	2809	3009	2632	2387	2656	2223	2146	2416	2560	31135
2015	2751	2646	2560	2711	2861	2946	2585	3032	2296	2436	2572	2698	32094

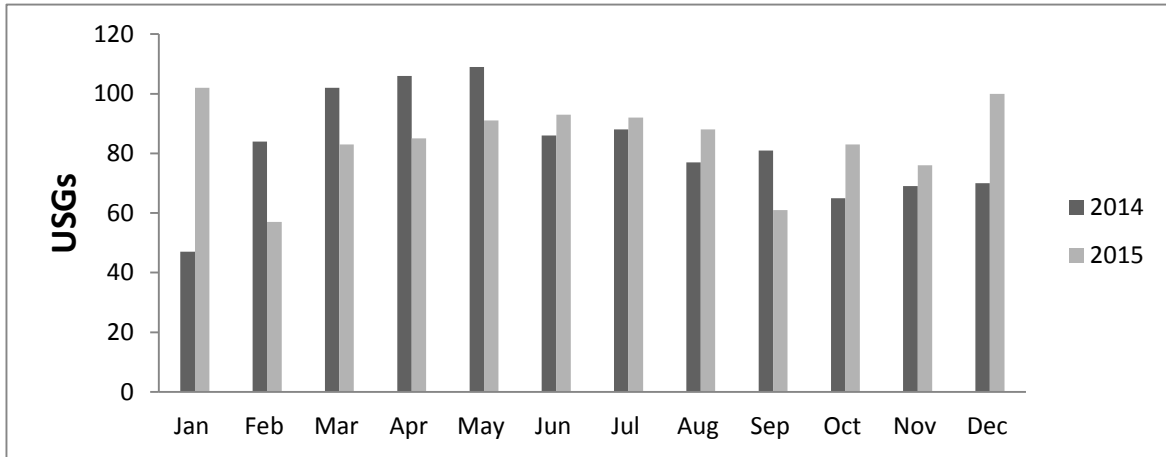


Categorization of X-Ray Services 2015

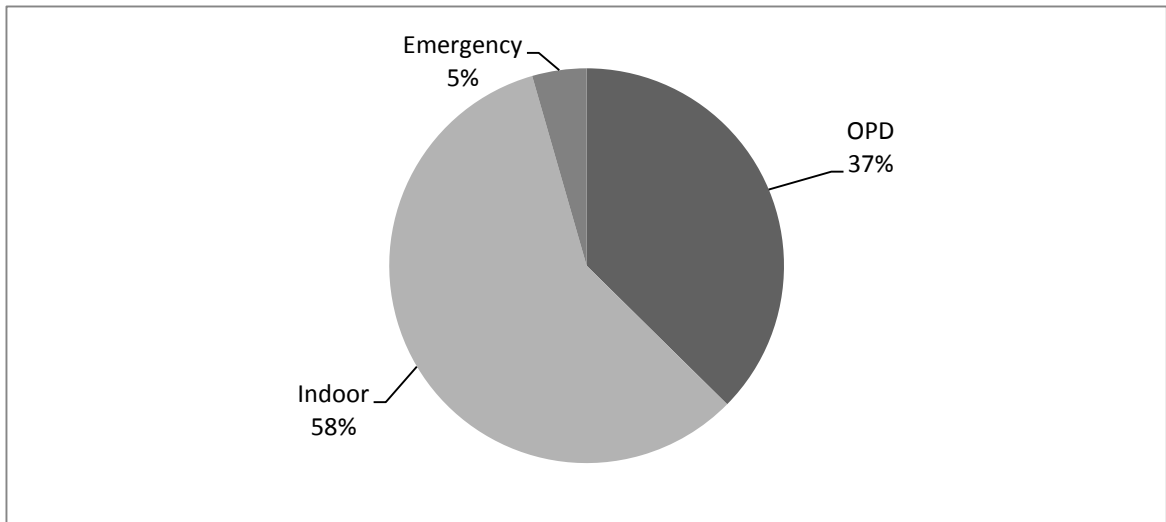


PATIENTS SERVICES REPORT
RADIOLOGY DEPARTMENT
USGS 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	47	84	102	106	109	86	88	77	81	65	69	70	984
2015	102	57	83	85	91	93	92	88	61	83	76	100	1011



Categorization of USGs Services 2015

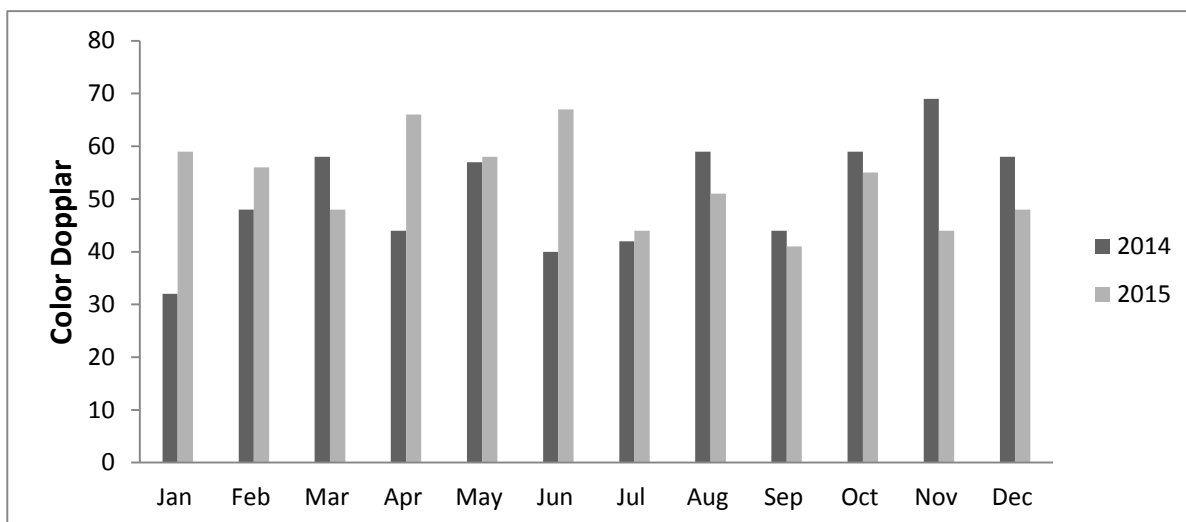


PATIENTS SERVICES REPORT

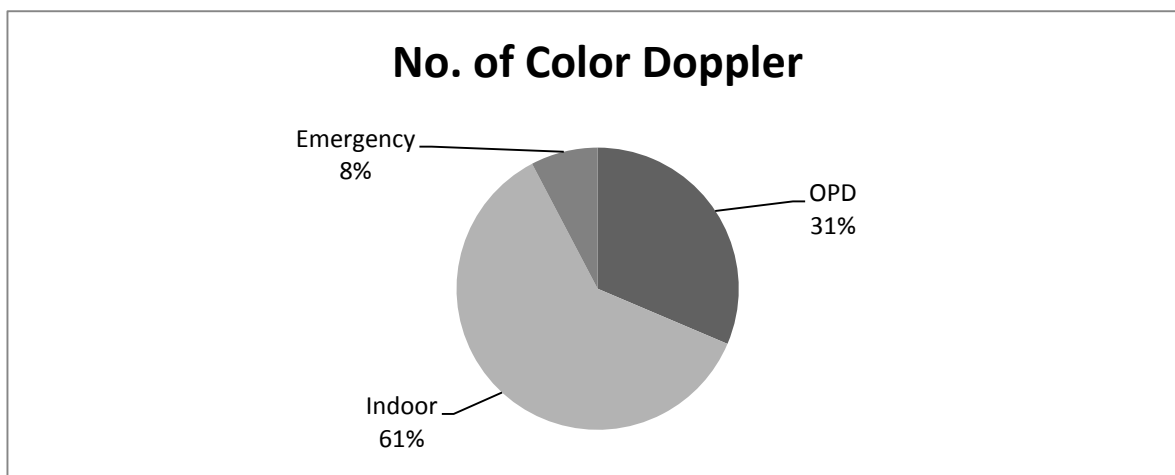
RADIOLOGY DEPARTMENT

Color Doppler 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	32	48	58	44	57	40	42	59	44	59	69	58	610
2015	59	56	48	66	58	67	44	51	41	55	44	48	637



Categorization of Color Doppler Services 2015



BLOOD BANK

The Blood Bank Department of this institute equipped with the latest models of Blood storage Bank cabinets, Plasma Freezer and Cryocentrifuge machine for the separation plasma, PCV and platelets.

The safe blood is being supplied not only to the patients of Faisalabad Institute of Cardiology but also Thalasscima center DHQ Hospital Faisalabad after standard procedures of grouping and cross matching of blood including assessment of the fitness of donors and the screening for Hepatitis B, C, HIV, VDRL and malaria parasite.

Progress During the 2015 is as under:

BLOOD BANK, FAISALABAD INSTITUTE OF CARDIOLOGY, FAISALABAD				
BLOOD TRANSFUSION DATA-2015				
01. Total No. of Requisitions Recorded		1578		
02. Requisitions met with		1536		
03. Donors Bled		3823		
04. Blood Groupings:-		(i) DONORS	13223	
		(ii) PATIENTS	1578	
05. Blood Supplied		5019		
06. Donations given		985		
07. Blood Bags discarded		190		
08. Donors Cross-matched		8519		
09. Screening Tests and Reactive cases:				
Sr.#	Screening Tests	Tests done	Reactive cases	Percentage (%)
I	HBVs Ag	8507	276	3.24
ii	HCV	8507	380	4.47
lii	HIV	8507	1	0.01
IV	Syphilis	8507	146	1.72
V	MP	8507	103	1.21
10. Details of Donors Blood Groups:-				
Sr.#	BLOOD GROUPS	POSITIVE	NEGATIVE	
I	A	3028	1056	
ii	B	3490	899	
lii	O	5023	611	
Iv	AB	2706	486	

- Services are also provided to Thalasscima Center at DHQ Hospital Faisalabad.

NUCLEAR CARDIOLOGY DEPARTMENT

Nuclear Cardiology Department started work in August 2011. The Nuclear Cardiology department offers a wide spectrum of non-invasive tests for diagnostic and prognostic evaluation of patients with cardiovascular disease.

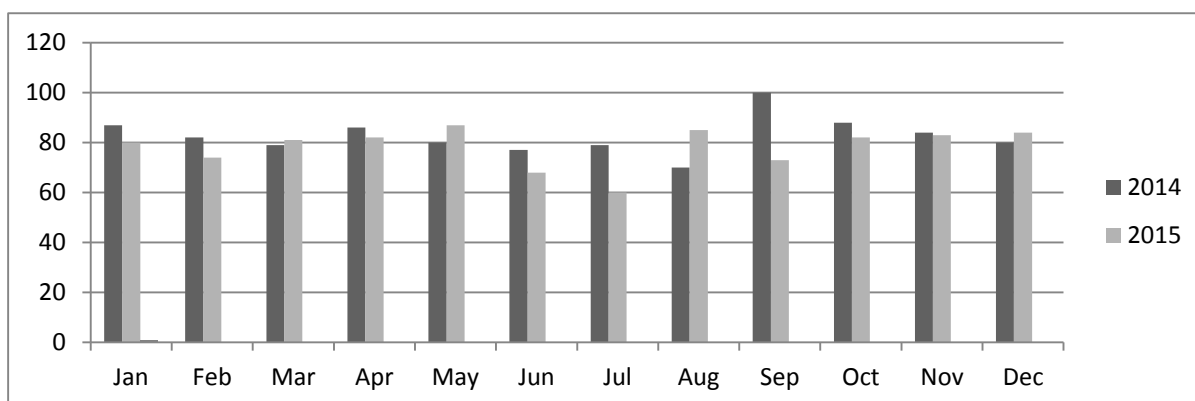
The department performs myocardial perfusion scans, using both physical and pharmacological stress techniques. Tc-99m MIBI are used for myocardial perfusion imaging (MPI). We perform stress and resting nuclear imaging for evaluation of coronary blood flow, myocardial function, and myocardial viability in patients with coronary artery disease and other cardiac conditions.

The department is equipped with a state of the art dual head dedicated cardiac SPECT Gamma camera system (Cardio MD III), which has been installed.

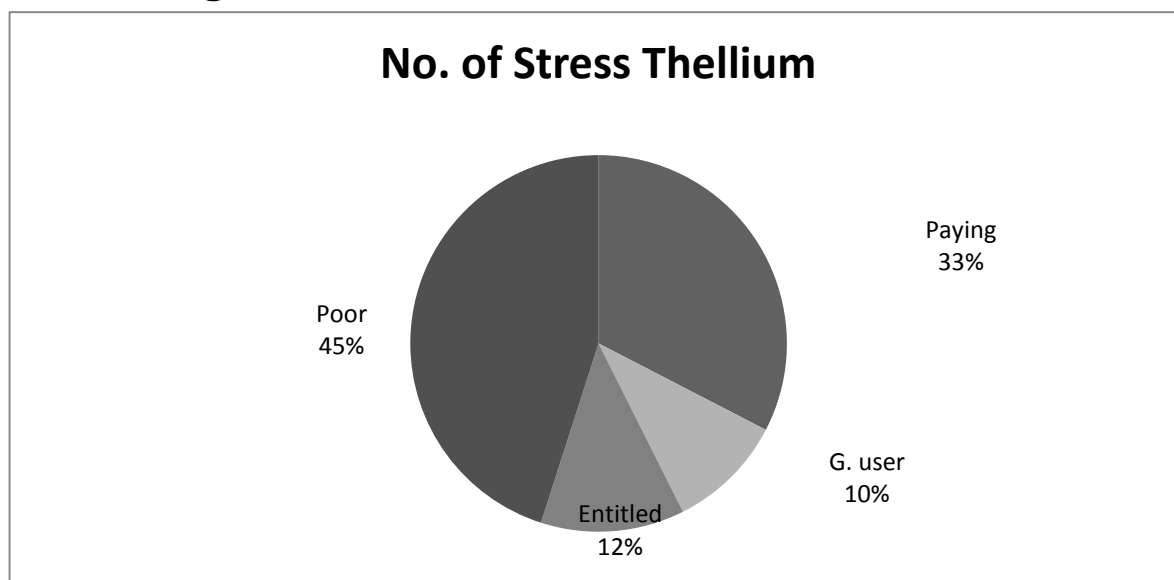
PATIENTS SERVICES REPORT

Stress Thallium 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	87	82	79	86	80	77	79	70	100	88	84	80	992
2015	80	74	81	82	87	68	60	85	73	82	83	84	939

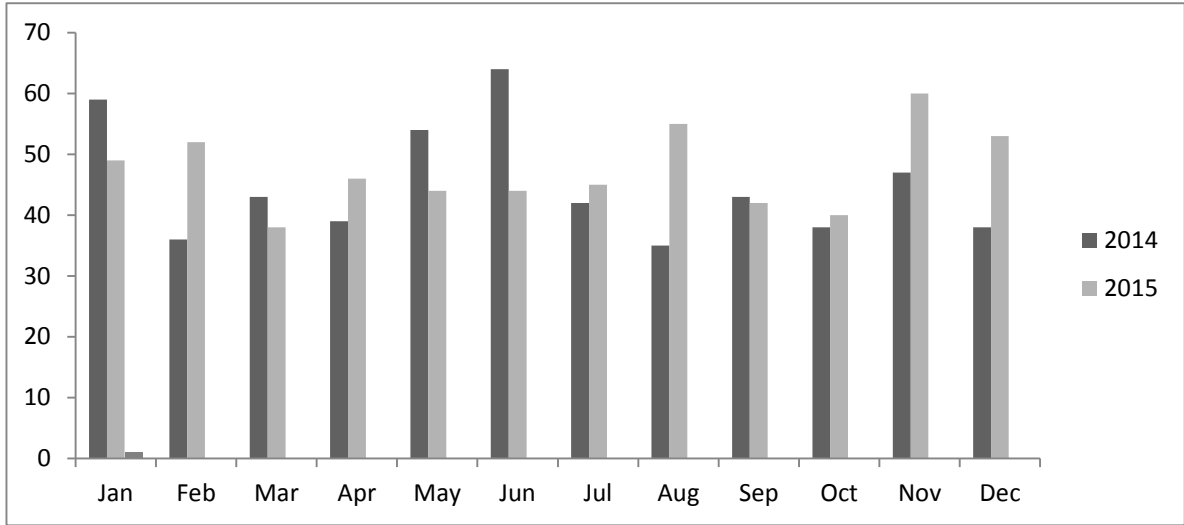


Categorization of Stress Thallium Services 2015

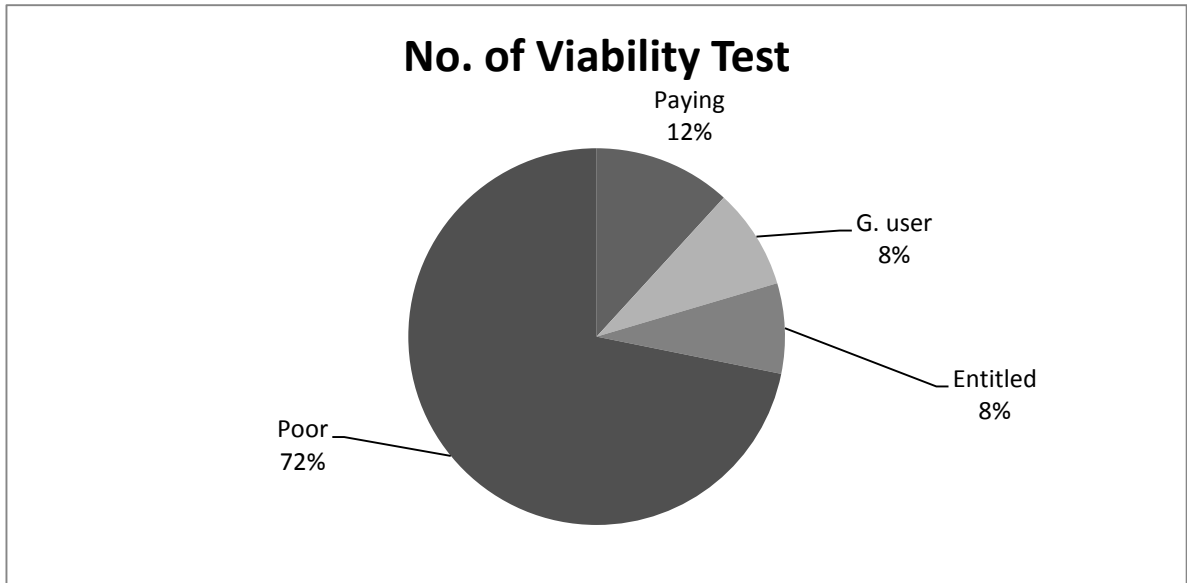


PATIENTS SERVICES REPORT
NECULAR CARDIOLOGY DEPARTMENT
Viability Test 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	59	36	43	39	54	64	42	35	43	38	47	38	538
2015	49	52	38	46	44	44	45	55	42	40	60	53	568

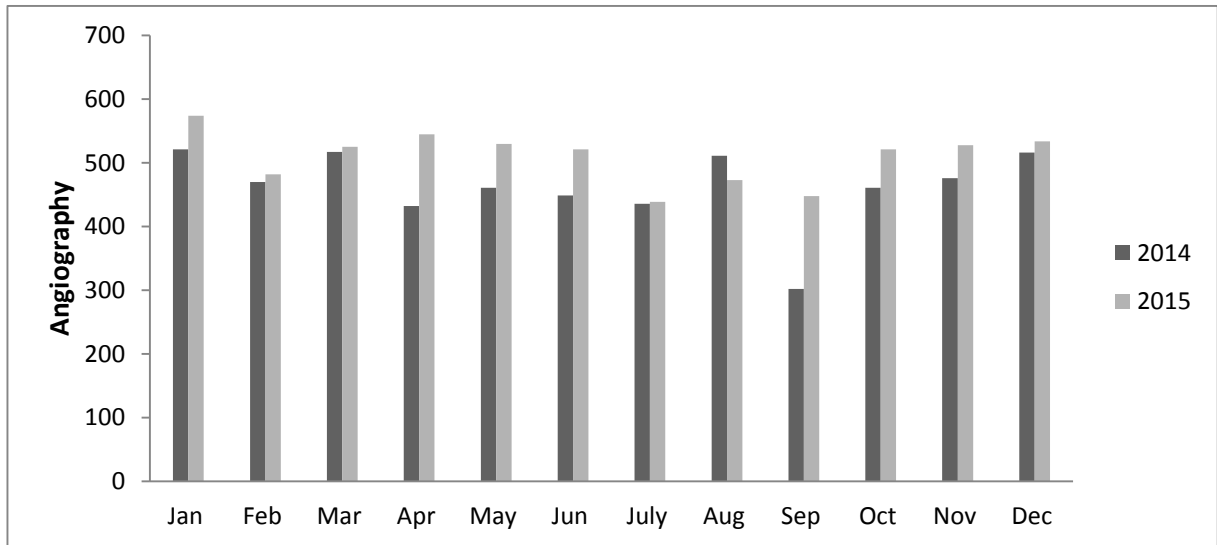


Categorization of Viability Test Services 2015

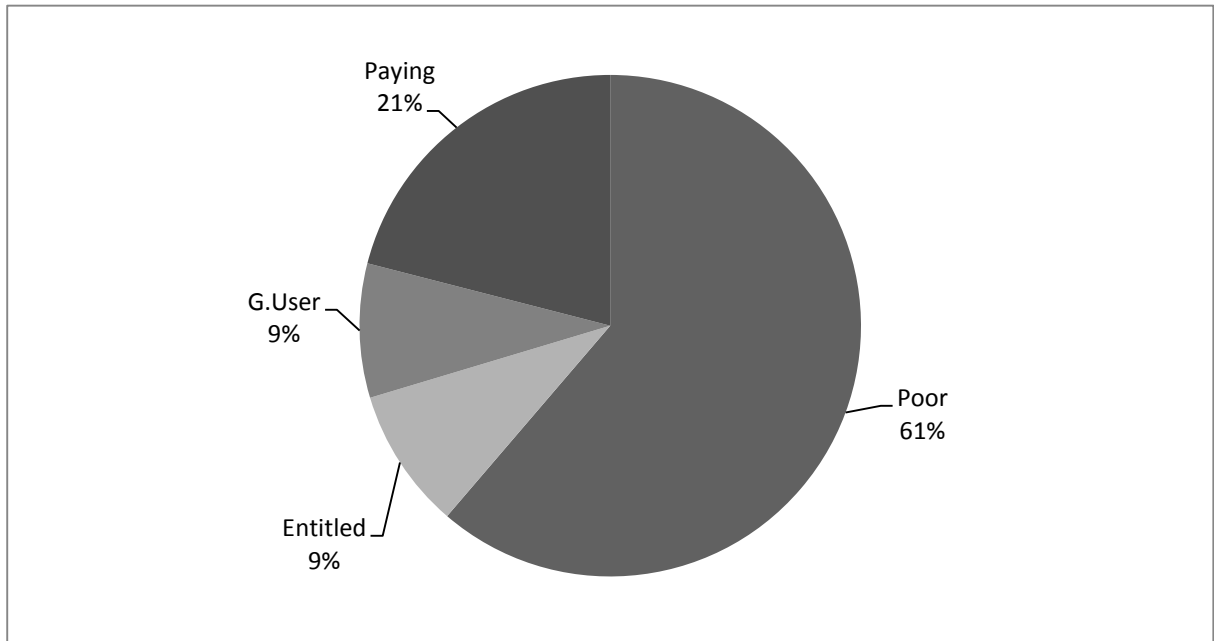


PATIENTS SERVICES REPORT
INTERVENTIONAL CARDIOLOGY DEPARTMENT
ANGIOGRAPHY 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
2014	521	470	517	432	461	449	436	511	302	461	476	516	5552
2015	574	482	525	545	530	521	439	473	448	521	528	534	6120

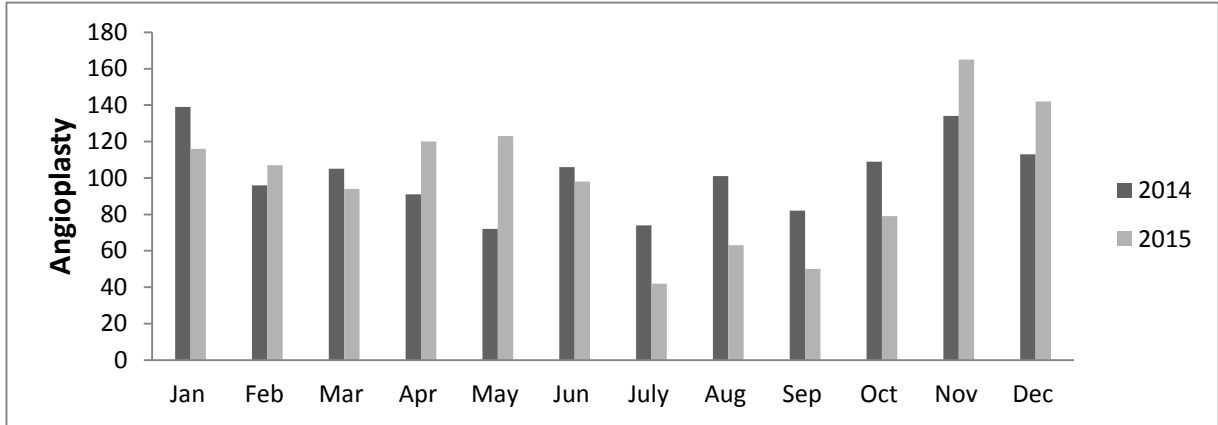


Categorization of Angiography Services 2015

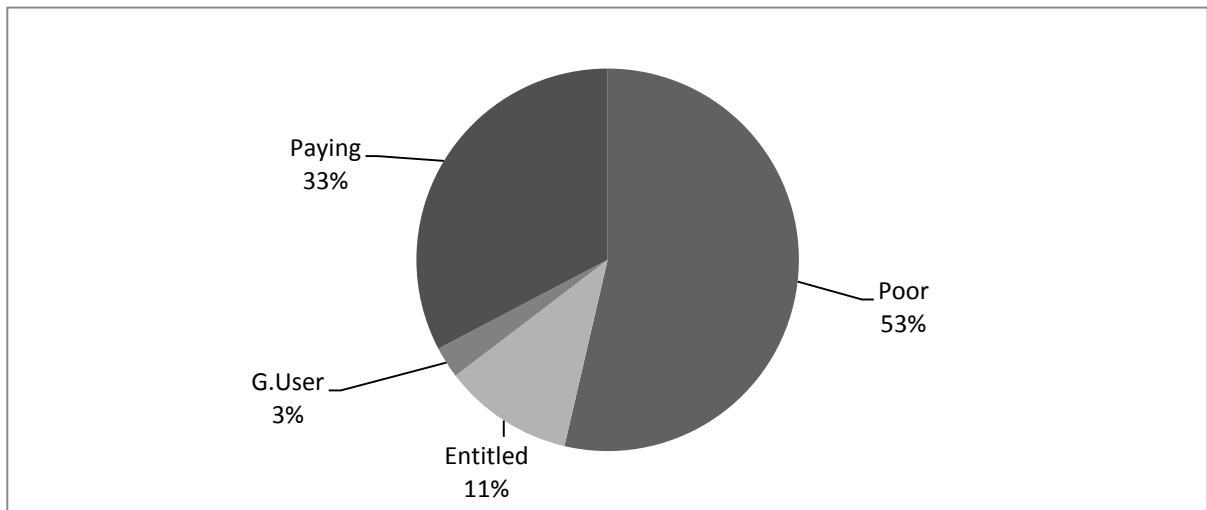


PATIENTS SERVICES REPORT
INTERVENTIONAL CARDIOLOGY DEPARTMENT
ANGIOPLASTY 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
2014	139	96	105	91	72	106	74	101	82	109	134	113	1222
2015	116	107	94	120	123	98	42	63	50	79	165	142	1199

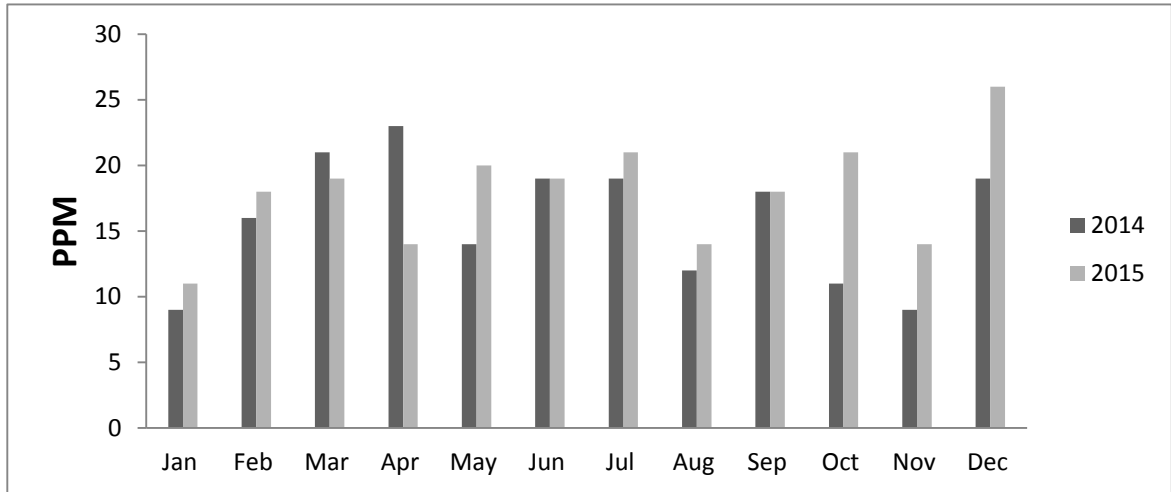


Categorization of Angioplasty Services 2015

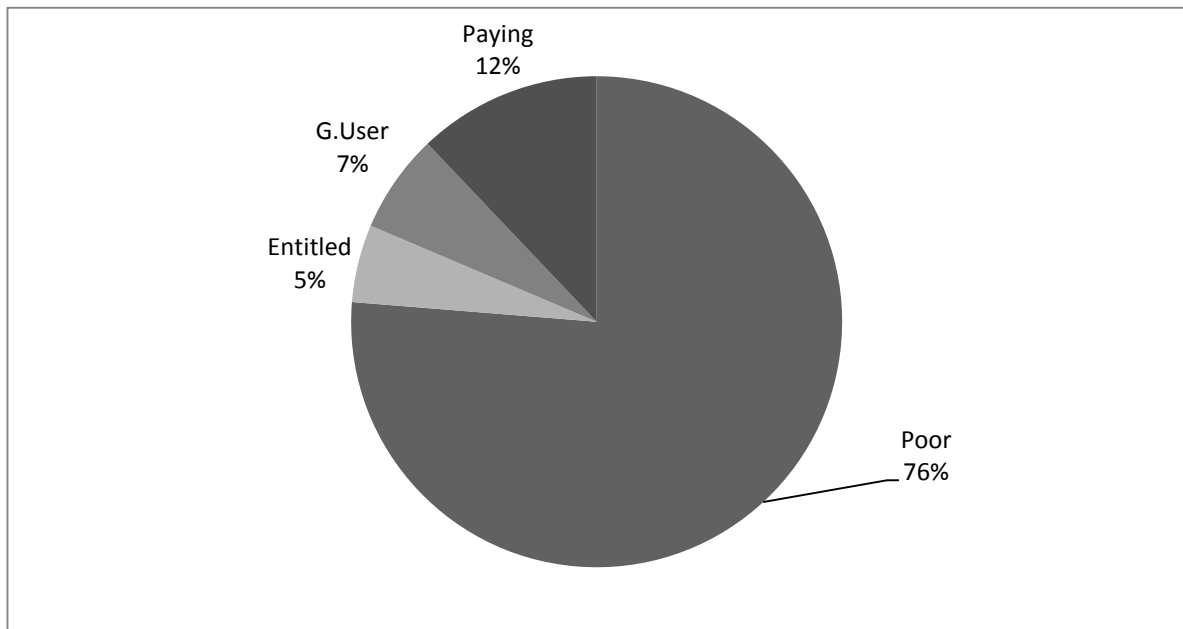


PATIENTS SERVICES REPORT
INTERVENTIONAL CARDIOLOGY DEPARTMENT
PPM 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2014	9	16	21	23	14	19	19	12	18	11	9	19	190
2015	11	18	19	14	20	19	21	14	18	21	14	26	215

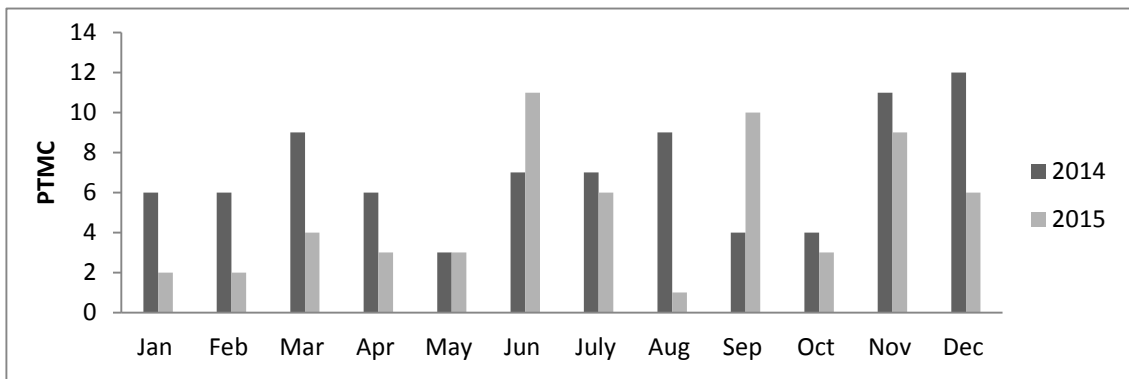


Categorization of PPM Services 2015

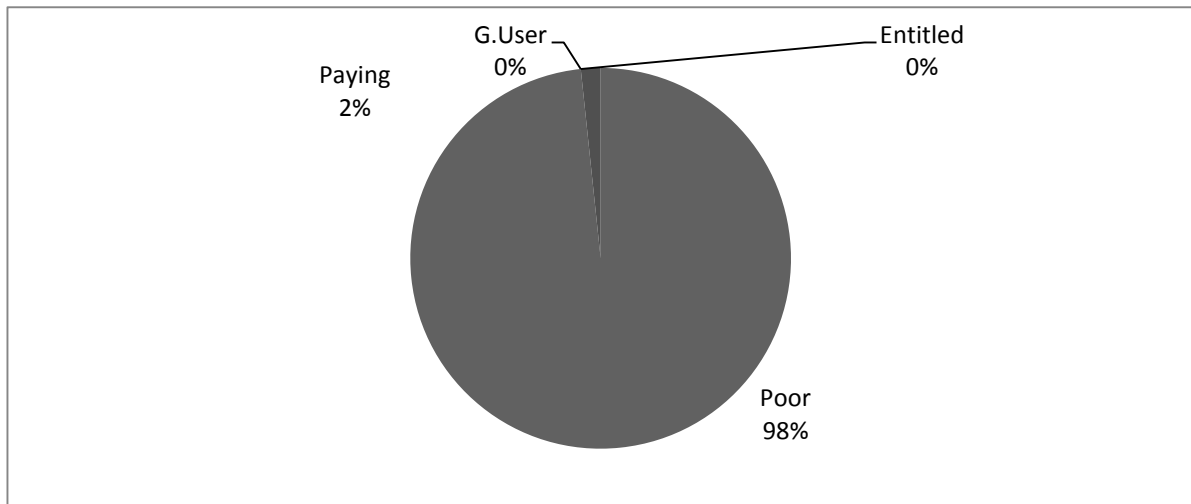


PATIENTS SERVICES REPORT
INTERVENTIONAL CARDIOLOGY DEPARTMENT
PTMC 2014-2015

Year	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec	Total
2014	6	6	9	6	3	7	7	9	4	4	11	12	84
2015	2	2	4	3	3	11	6	1	10	3	9	6	60



Categorization of PTMC Services 2015



STATISTICS DEPARTMENT

- Statistics Department is started its working in December 2009. Update all indoor outdoor patients' record, collects data from various wards/departments analysis and generate daily, monthly, and annual progress reports, which are helpful in budgeting, management, planning and useful for researchers and medical graduates.

INFORMATION TECHNOLOGY DEPARTMENT

I.T Department of Faisalabad Institute of Cardiology, Faisalabad started its working in May, 2009. The following department's data has been computerized through proper software and database system.

- OPD Registration (New & old patient Records)
- Pathology Lab (All test results are being recorded and reports are generated)
- Account (Payroll module for salary generation)
- Purchase Cell Module (Supply orders, Rate Contracts, Budget Status etc)
- Material Management (Medicine/pharmacy)
- Material Management (General Store)
- Computerization of Patient Category & Cardiac Status (Socio-Economic Status)
- Computerization of OPD Pharmacy (Slips Feeding, Auto Slip generation of Repeat patients, stock Status)
- Computerization of Duty Rosters of Grade-1 to 5
- Computerization of Record Room/SO office Data (Bed Statement, Files In/Out Patients Record)
- Computerization of Diagnostic Module for Echo, ETT, Angio, Radiology
- Computerization of Indoor Management System (Currently implemented in Emergency Ward)
- Computerization of OT notes
- Computerization of Billing System.
- Computerization of Appointment Module for Invasive and Interventional Procedures
- For Pathology, Radiology, Department we have made online facility to the following departments stepping forwarding towards paper less environment
Emergency, ICU, IICU, CCU-I, CCU-II, Cardiology, Cardiac Surgery, Lab, ICU Online X-Rays
- Attendance & Time Management System

FINANCIAL RESOURCES

The source of financing to this institute is Government of the Punjab, Health Department. The building portion is being executed by the Punjab Communication & Works Department. The non-building portion is being done by the institutional authorities. The breakup of Grant-16 for year

2014-2015 is given below:-

POSITION OF ALLOCATION AND EXPENDITURE 01.07.2014 To 30.06.2015 (Grant-16)

Sr. No	Head of Account	Allocation Rs.	Expenditure Rs.	Balance Rs.
1.	Employees Related Expenses	316,302,000	310,628,000	5,674,000
2.	Operating Expenses	367,963,000	367,418,000	545,000
3.	Transfer	5,812,000	5,761,000	51,000
4.	Grant Domestic	1,400,000	491,000	509,000
5.	Repair & Maintenance	15,892,000	15,745,000	147,000
Total		707,369,000	700,443,000	6,926,000

Purchase Cell

The Purchase cell is working in this institute under the Additional Medical Superintendent (Purchase). All the Electro medical equipments, machineries, furniture, medicines etc. are being purchased through this cell according to Government Policy.

On Panel Departments:

The following departments are on the penal of FIC Faisalabad

1. Pakistan Telecommunication Company Limited (PTCL)
2. Sui Northern Gas Pipelines Limited (SNGPL)
3. National Institute for Biotechnology and Genetic Engineering (NIBGE)
4. National Institute of Agricultural Botany (NIAB)
5. Punjab Institute of Nuclear Medicine (PINUM)
6. Pakistan International Airlines (PIA)
7. Faisalabad Electric Supply Company (FESCO)
8. Civil Aviation Authority (CAA)

Educational Programs:

The institute has started post graduate training program to enhance the capacity building in field of Cardiology/Cardiac Surgery.

The Post Graduate training is being provided to the FCPS in Cardiology and Cardiac Surgery in this institute.

The fourth session in M.D, M.S and Dip-card is under training in this institute. Four year B.Sc program for Cardiac Perfusionist is being in progress at FIC Faisalabad under University of Health Sciences Lahore and 4th batch has been inducted for 2016. This institute is planning to start M.S, D.A. in Anesthesia.

Achievements

- Registered with Pakistan Medical and Dental Council
- Affiliated with University of Health Sciences Lahore
- Affiliated with College of Physicians and Surgeon Pakistan
- Accredited By PHC (Punjab Health care commission)
- FIC along with its diagnostic and therapeutic facilities is stepping forward to reduce the incidence of cardiac diseases through awareness regarding risk factors and changing the life style of the peoples through its *Continuous Medical Education Programs (CME)*
- Research facilities in field of Cardiology and Cardiac Surgery
- Training the post graduates doctors in all cardiac specialties
- Training facilities for nurses and paramedics, have started *Basic Life Support program (BLS)*
- Approved PC - 1 For staff(16 residences) block C.
- Approved fund for three Echocardiography Machines
- Queue Management System in OPD Departments
- Biometric attendance system for employees.
- Approval of PC-1 for an Angiography Machine.
- Request for provision of adequate funds for M & R.
- Arrangement of Additional funds for Medicines and Disposables.

Future Plans

- To fulfill deficient staff is specially specialists.
- Approval of PC-I for Staff Residences and Doctors, Nursing Hostel (Block-B).
- Completion of expansion of Emergency Department (Non Building).
- Approval of PC-1 for CT Angiography machine, a lacking diagnostic facility.
- Provision of new OPD Block.
- Provision of new Cardiology Block (4TH floor).