



RAWALPINDI MEDICAL UNIVERSITY
CENTER FOR LIVER AND DIGESTIVE DISEASE

Audit Report 2020- 2022



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

وَمَا نَفَعُ النَّاسَ سِرُّهُمْ إِفْوَافٍ وَلَا جُودُ

اور جو لوگوں کو فائدہ پہنچاتا ہے وہ دوائے زمین پر قائم رہتا ہے (الرعد: ۷۱)

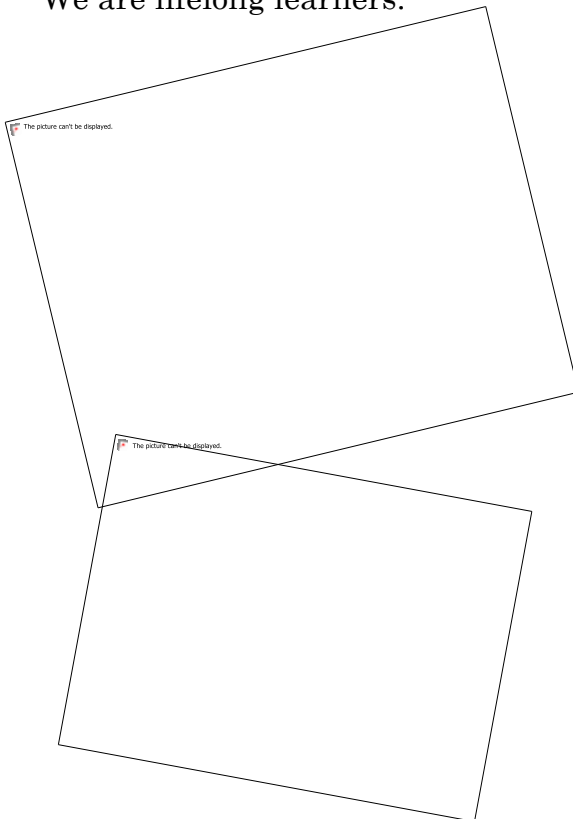
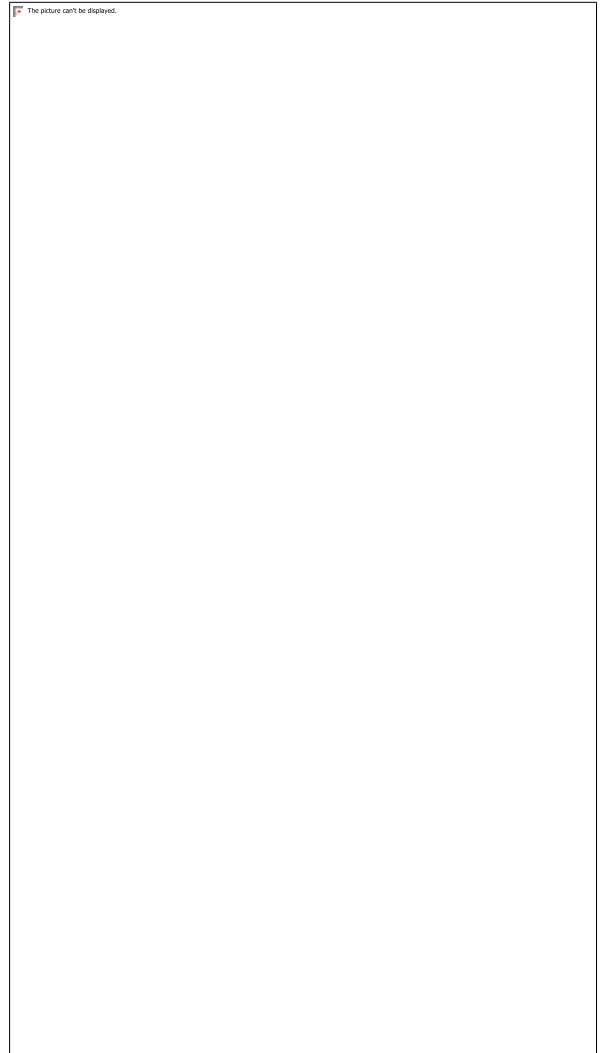
Which is for the good of mankind remains in the earth

Mission Statement

- To provide diagnosis and curative services to the patients of GI and Liver Diseases particularly Hepatopancreatobiliary Diseases and Hepaocellular Carcinoma (Liver Cancer) in the Northern part of Pakistan.
- To impart advance training to the GI Fellows and specialists in the field of Gastroenterology and hepatology.
- To establish clinical research in the field of Gastroenterology and Hepatology.
- To develop network with national and international Center and Societies of GI and Liver Diseases.

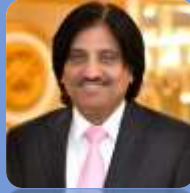
Vision and Value

- We work for excellence.
- We work as a team.
- Patient is our priority.
- We are lifelong learners.



FACULTY

Prof. Dr. Muhammad Umar
Sitara-i-Imtiaz
Vice Chancellor & CEO
Professor of Medicine
Rawalpindi Medical University
Head of Department
Centre for Liver and Digestive Disease
(CLD) Holy Family Hospital ,Rawalpindi



Prof. Dr. Bushra Khaar
BSc, MBBS, FCPS, FRCP, FACP
Professor Emeritus of Medicine
Consultant Gastroenterologist
and Hepatologist



Dr. Tanveer Hussain
MBBS, CHPE ,FCPS, Medicine
FCPS Gastroenterology
Associate professor Center for Liver and
Digestive Disease (CLD)
Holy Family Hospital, Rawalpindi



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Dr. Gul Nisar
WMO
Center for Liver and Digestive Disease
(CLD) Holy Family Hospital, Rawalpindi



VISITING FACULTY

Gen. Tassawar Hussain
Rawalpindi

Brig. Amjad Salamat
Rawalpindi

Prof . Anwaar A. Khan
Lahore

Prof. Waseem Uddin
Wah Cantt.

International

Dr. David Carre Lock ,USA
Dr. Khalid Hassan, USA
Dr. Asif Abbas Naqvi, UK
Dr. Ali Siddiqui, USA

Dr. Nadeem Tahami, UK
Dr. Ishfaq Ahmad, UK

A Success story of 38 Years



1985



There was no specialty of gastroenterology and hepatology in Rawalpindi region. The effort started, we visited different Centre of world like cornels university hospital. New "York USA, First Tiangin hospital China, Kings College University Hospital Uk, North West University Hospital, Chicago USA and many others finally able to established the start of center for liver and Digestive Diseases, Holy Family Hospital, Rawalpindi.

The success story of Establishment of Gastroenterology and Hepatology services started in 1985 when we did FCPS in General Medicine and want to do specialty Training



1992

2008



CCU

Endoscopy Unit



2011

Facilities

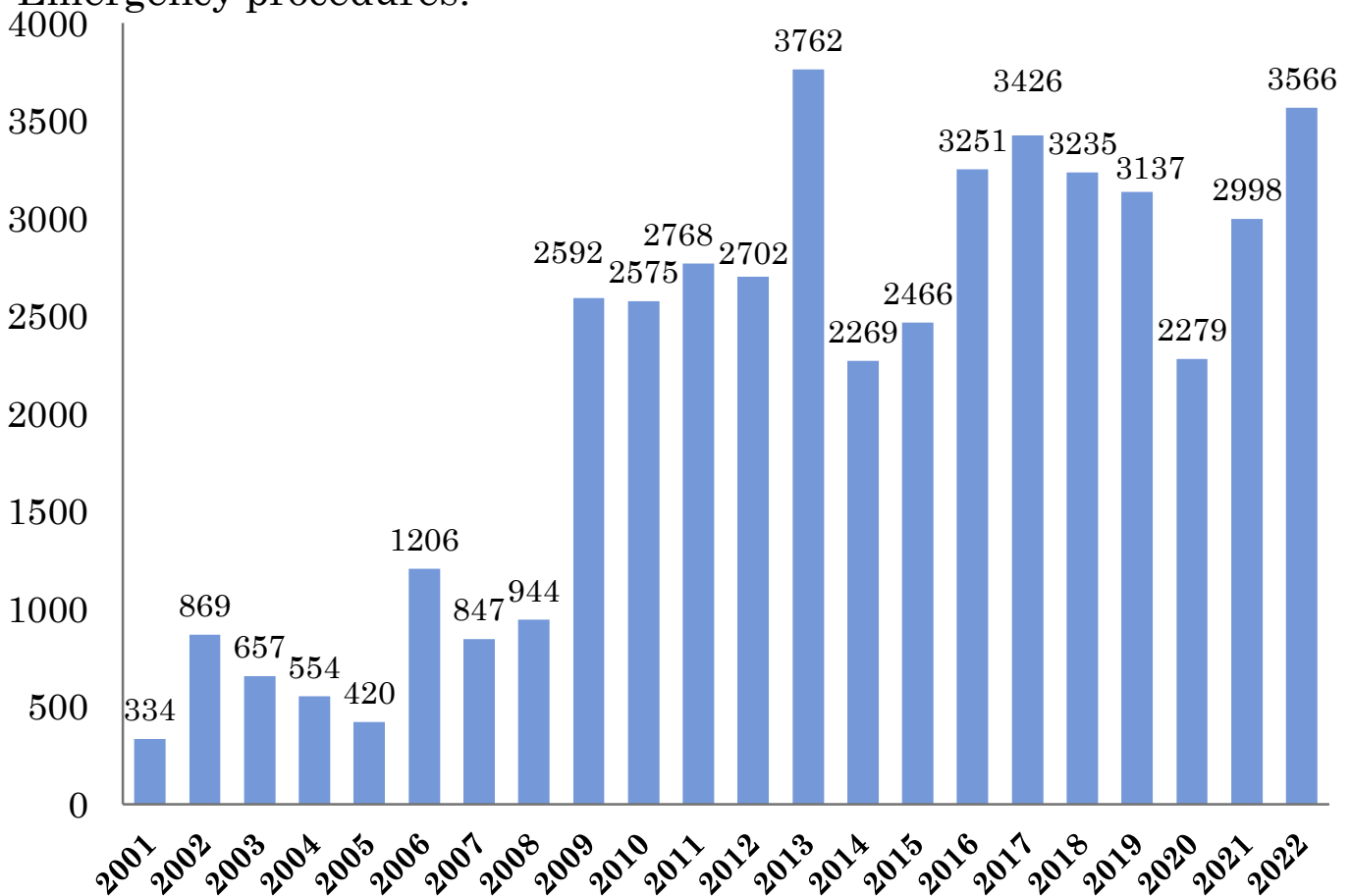
- Endoscopic Retrograde Cholangiopancreatography (ERCP)
- Endoscopic Ultrasound (EUS)
- Radiofrequency Ablation (RFA)
- Transcatheter Arterial Chemoembolization (TACE)
- Transjugular intrahepatic portosystemic shunt (TIPS)
- Argon Plasma Coagulation (APC)
- Variceal Band Ligation
- Gastric Glue Injection
- Endo Loop
- Polypectomy
- Endoscopic Mucosal Resection (EMR)
- Polypectomy
- Esophageal & Duodenal Stenting
- Percutaneous Endoscopic Gastrectomy (PEG)
- Endoscopic Mucosal Resection (EMR)
- Endoscopic Cyst Drainage



Endoscopy Audit

Holy Family Hospital is providing basic upper GI Endoscopic services for more then 20 years. With the establishment of Center Liver and Digestive Diseases be services as further evolved not only to worlds to patients benefits but also improved training services for the health care community.

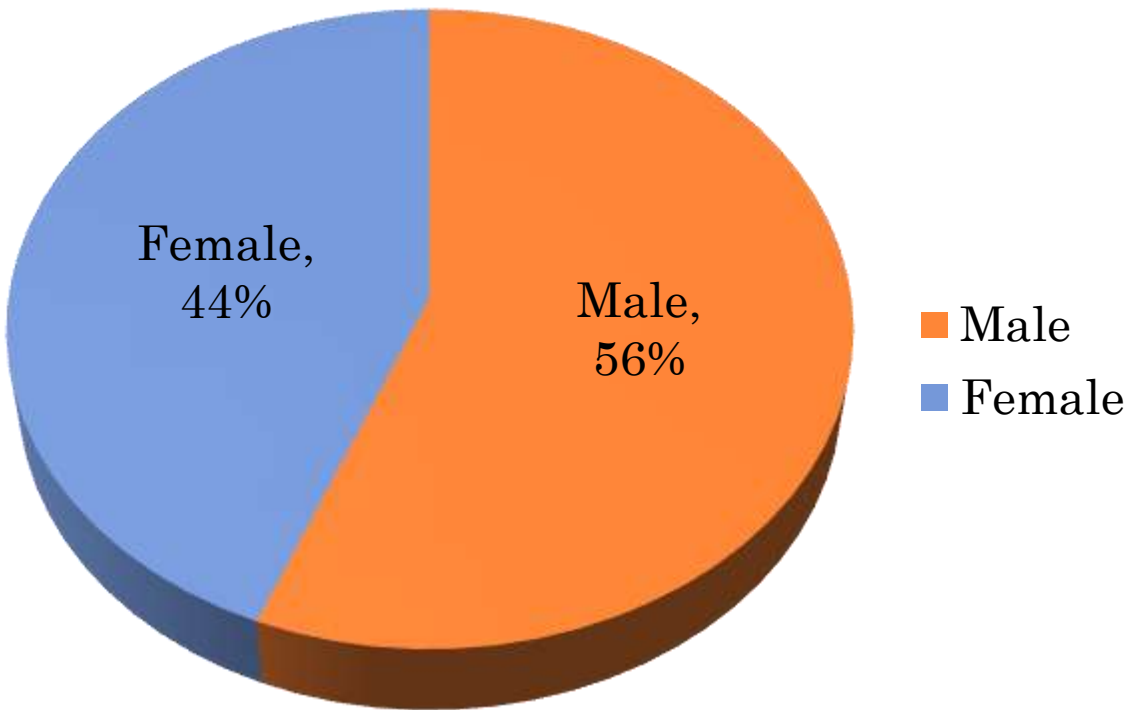
The center has set a bench mark by introducing the first of its kind Endoscopy Diploma Courses for Doctors and Nursing Staff. About 2200 procedures have been performed in 2020, 3000 in 2021 and more than 3500 cases including diagnostic as well as therapeutic UGI Endoscopies have been performed in the year 2022 respectively. The center provides its UGI endoscopic services 6 days a week and on call team is available round the clock, 24/7 for Emergency procedures.



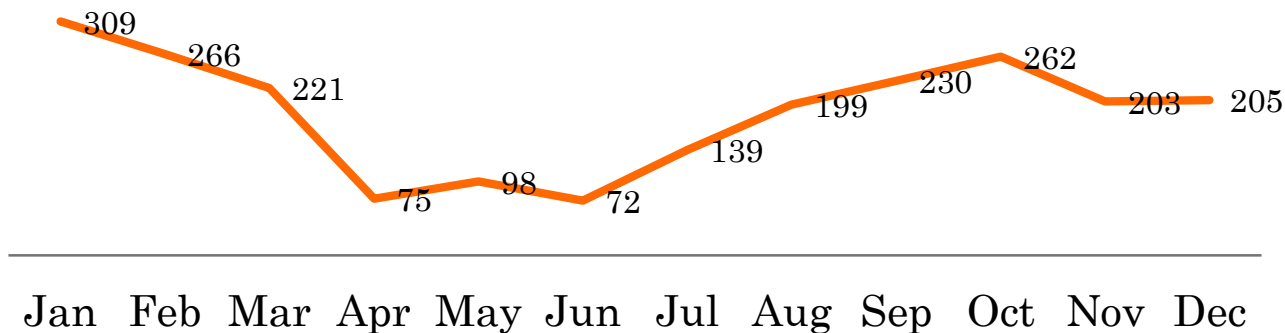
2020

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

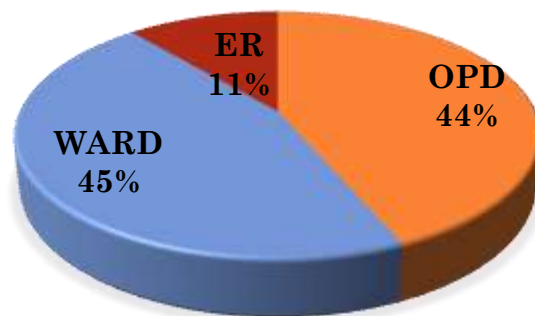
Total No of Patients	2279
Male	1278
Female	1001



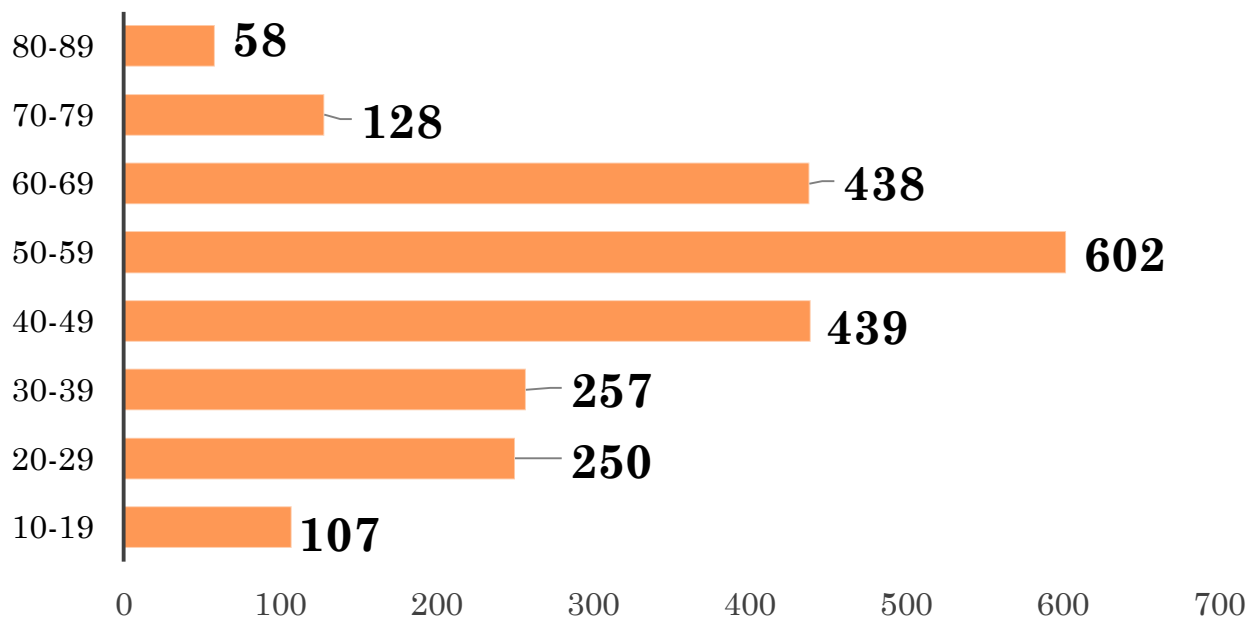
MONTHLY DISTRIBUTION.



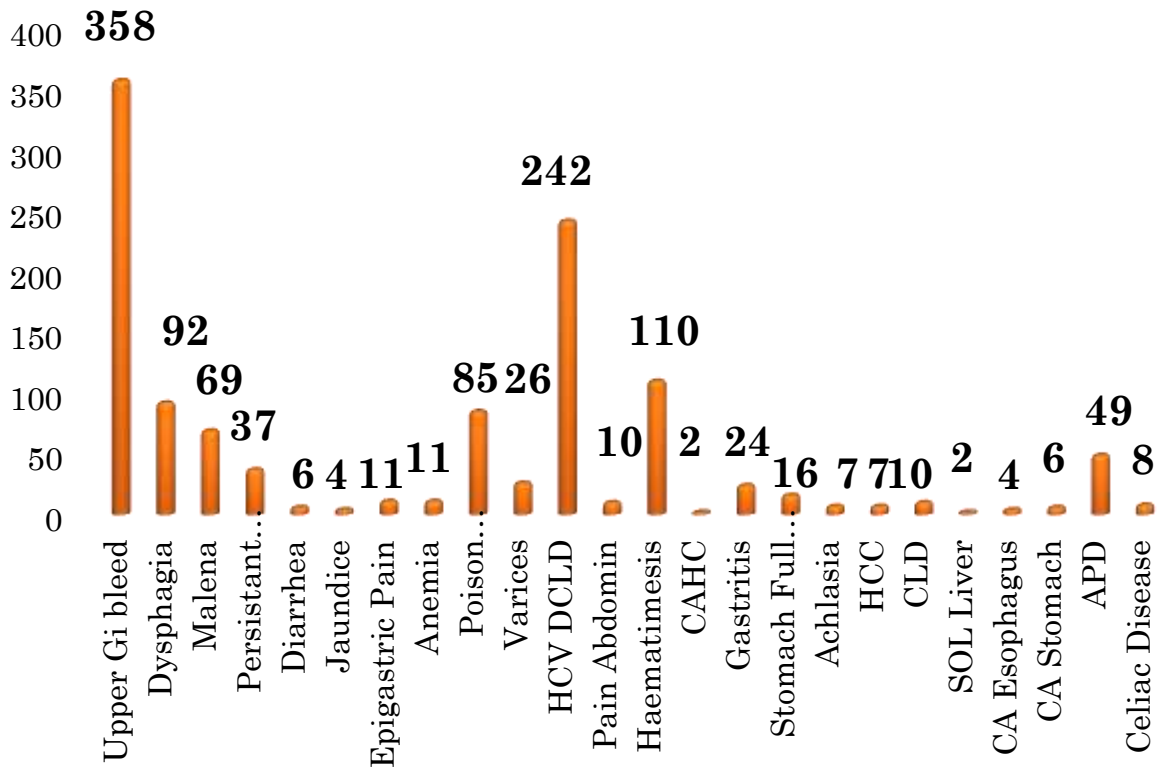
OPD/WARD/ER



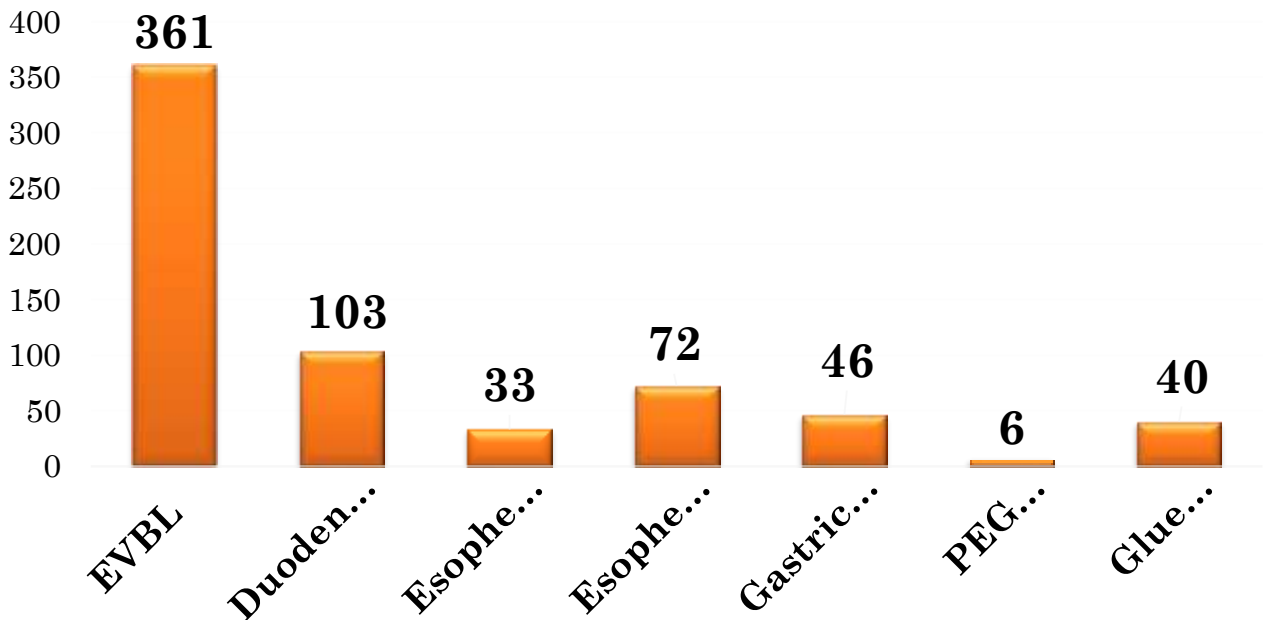
AGE WISE DISTRIBUTION



ENDOSCOPY INDICATIONS

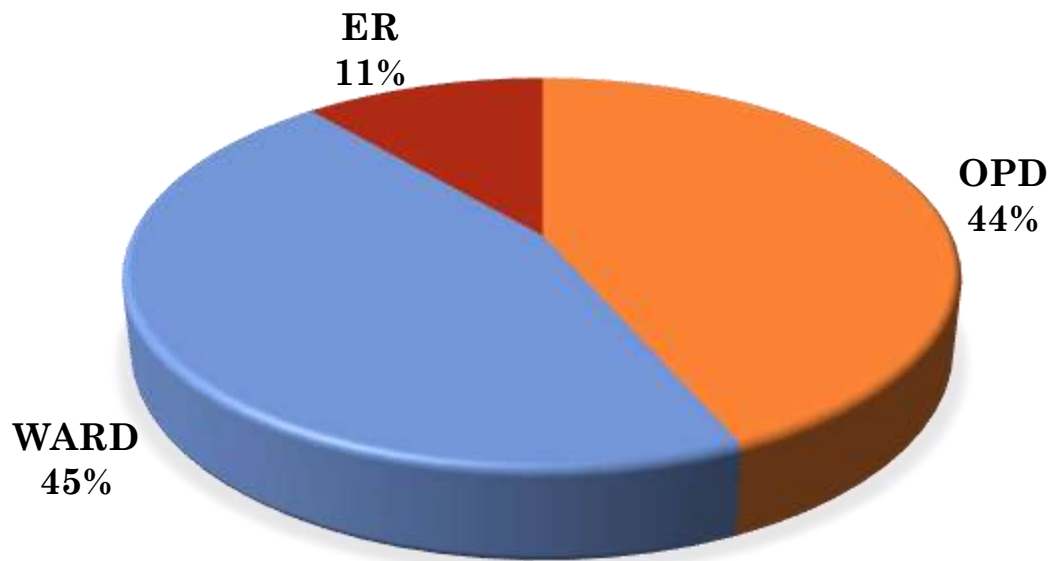


ENDOSCOPY INTERVENTIONS

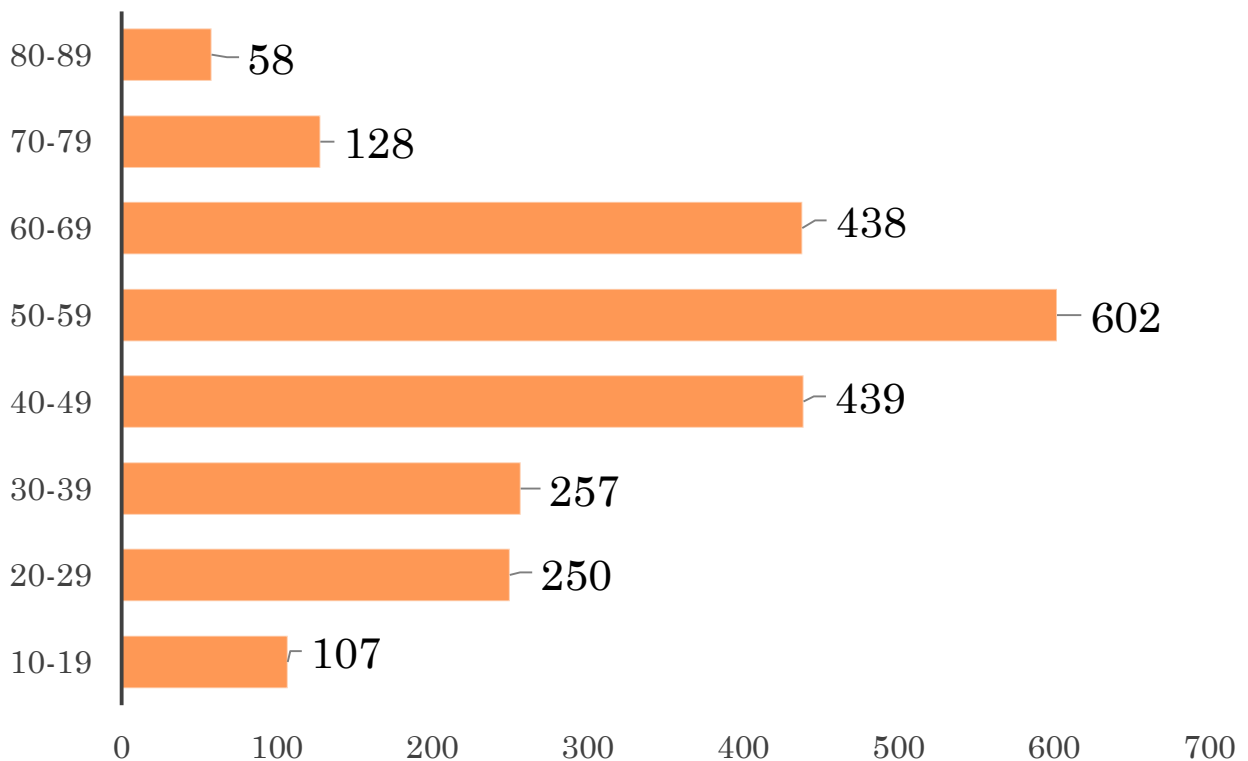


2021

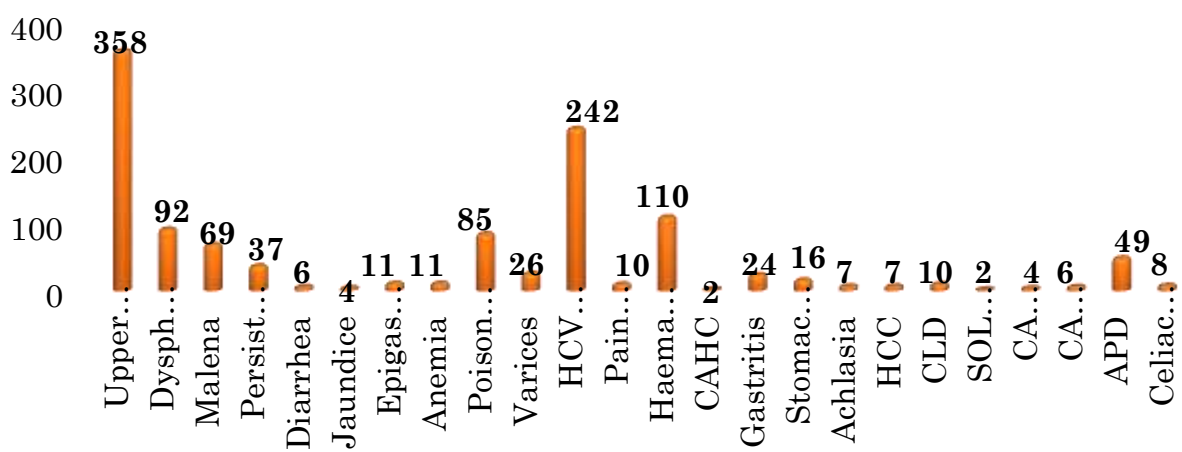
OPD/WARD/ER



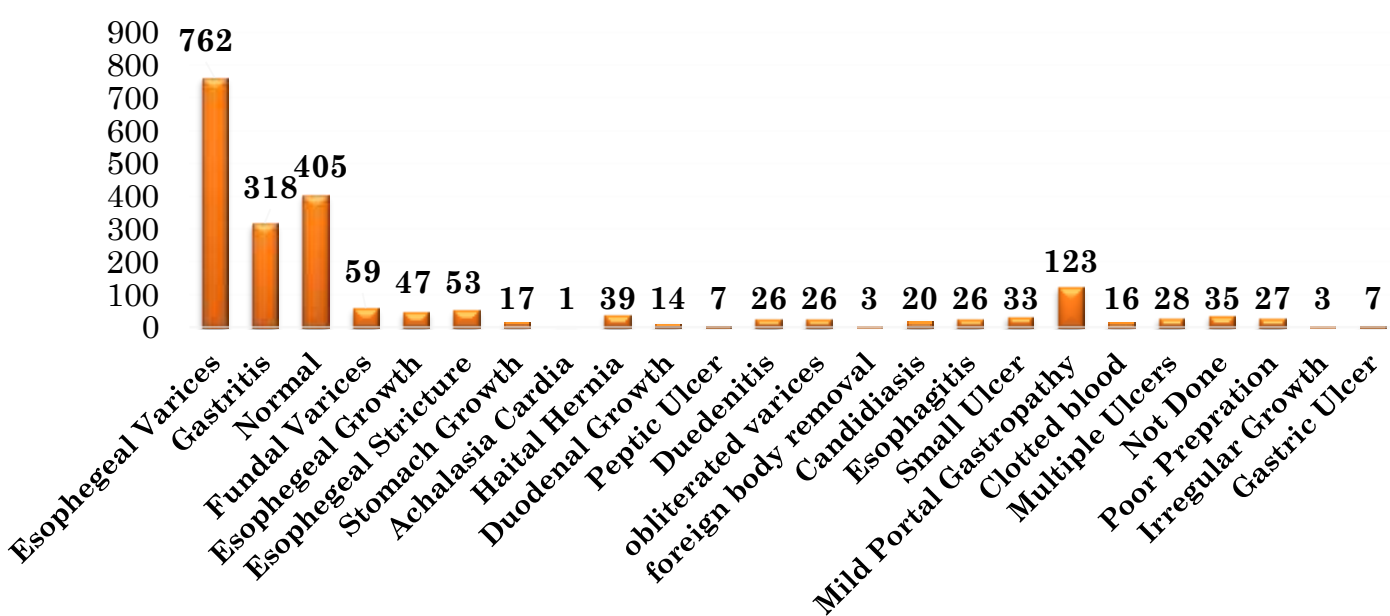
AGE WISE DISTRIUTION



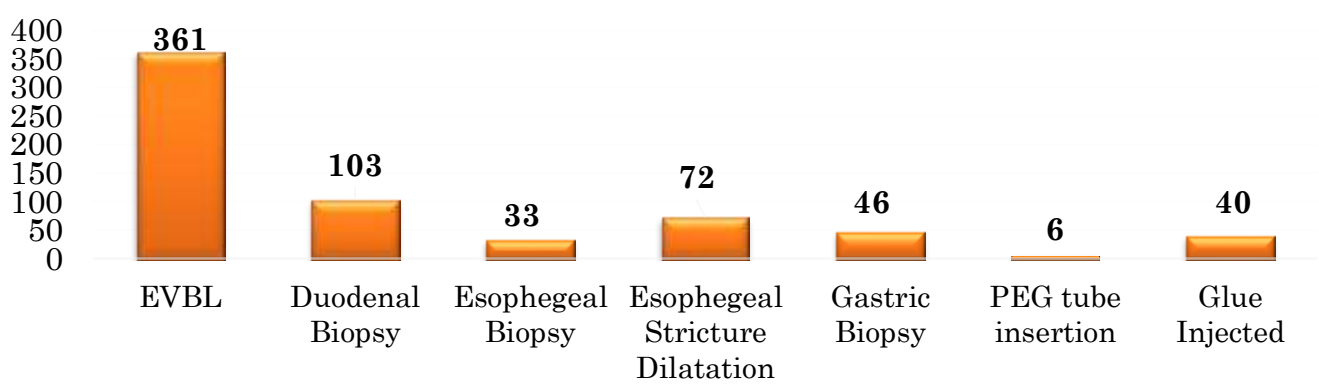
ENDOSCOPY INDICATIONS



ENDOSCOPY FINDINGS

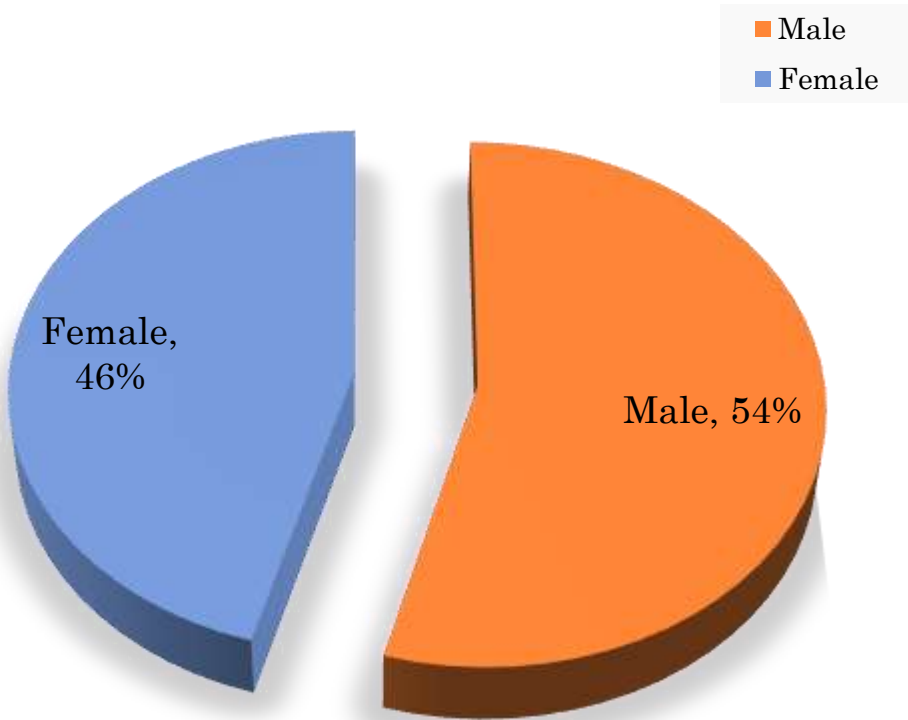


ENDOSCOPY INTERVENTIONS

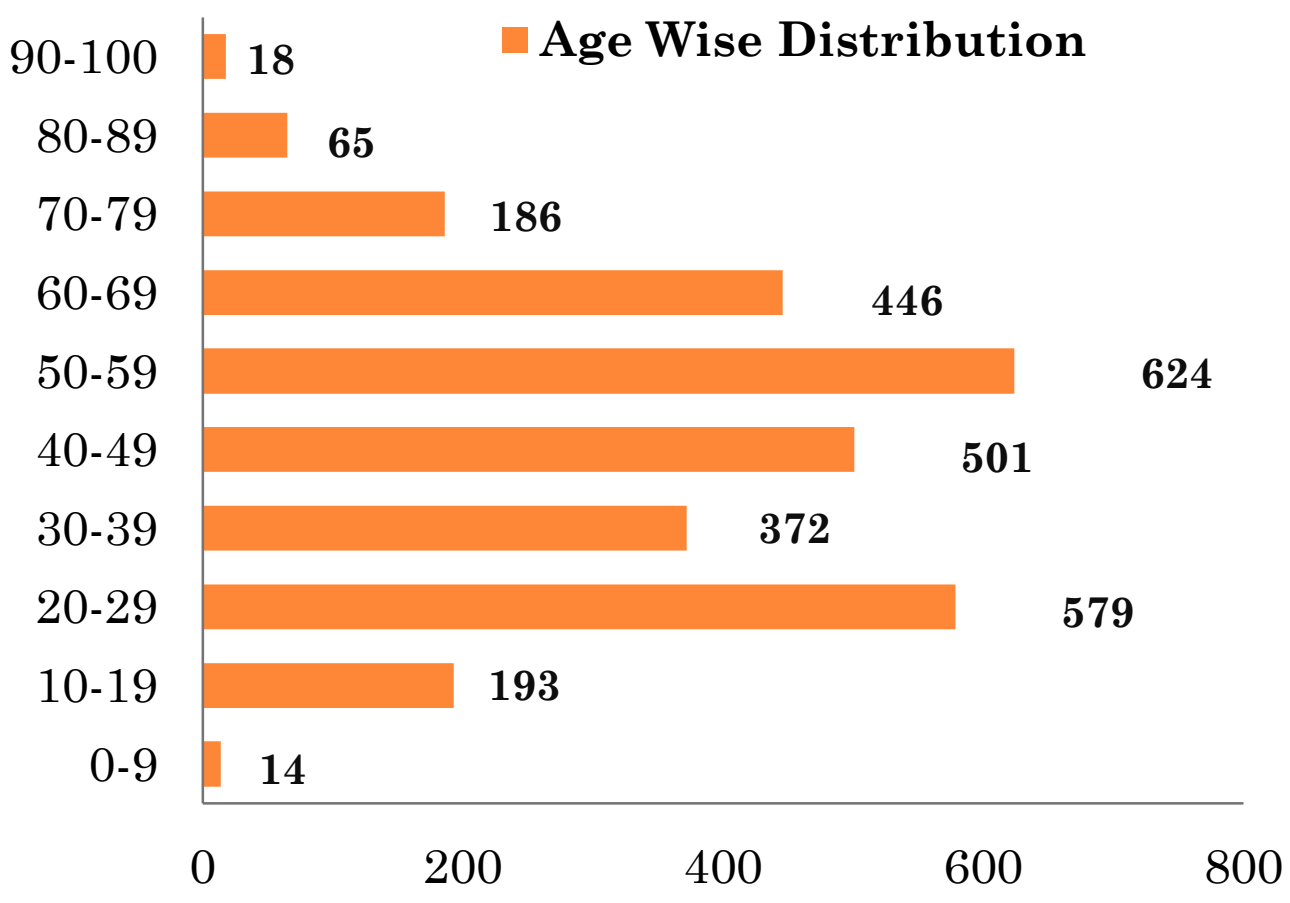
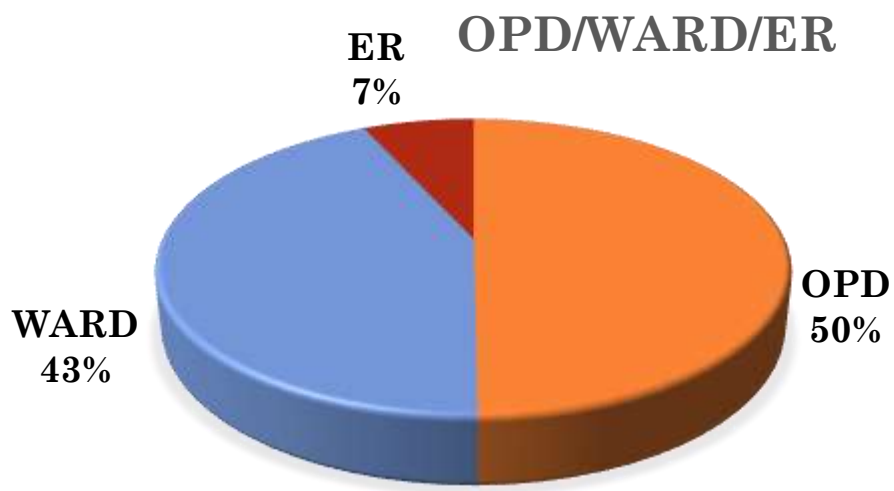


TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

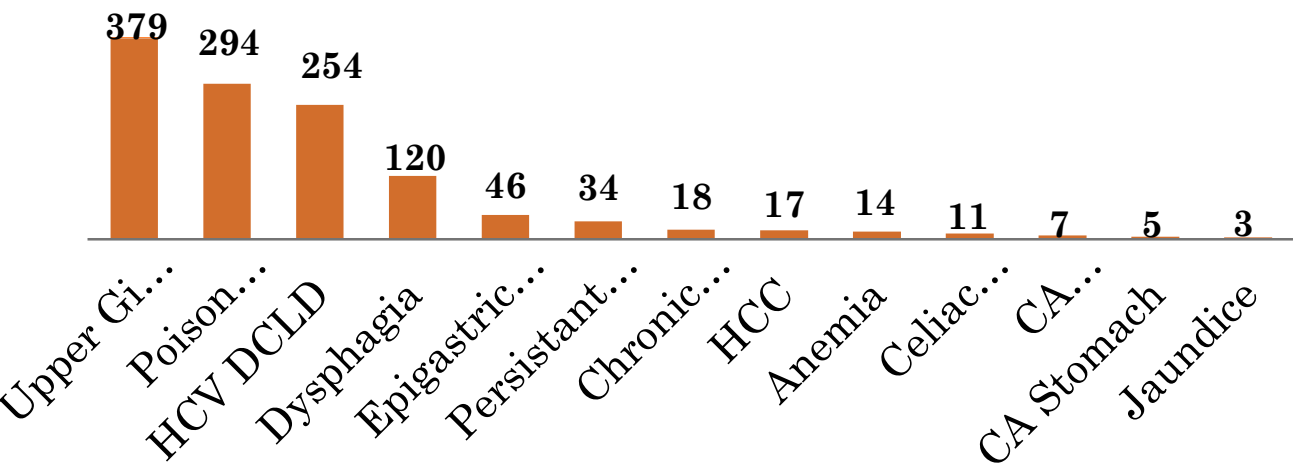
Total No of Patients	2998
<i>Male</i>	<i>1632</i>
<i>Female</i>	<i>1366</i>



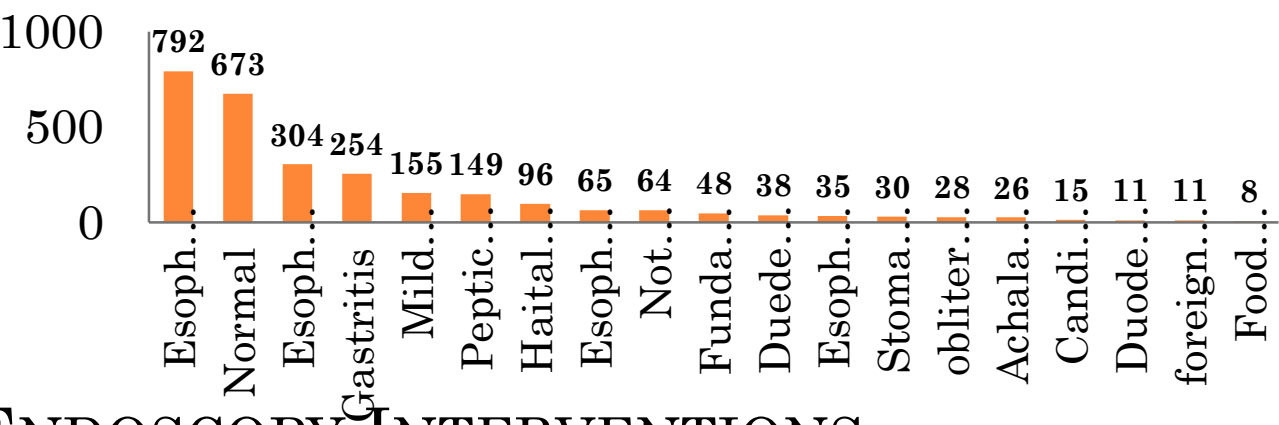
PATIENT WITH AGE WISE DISTRIBUTION



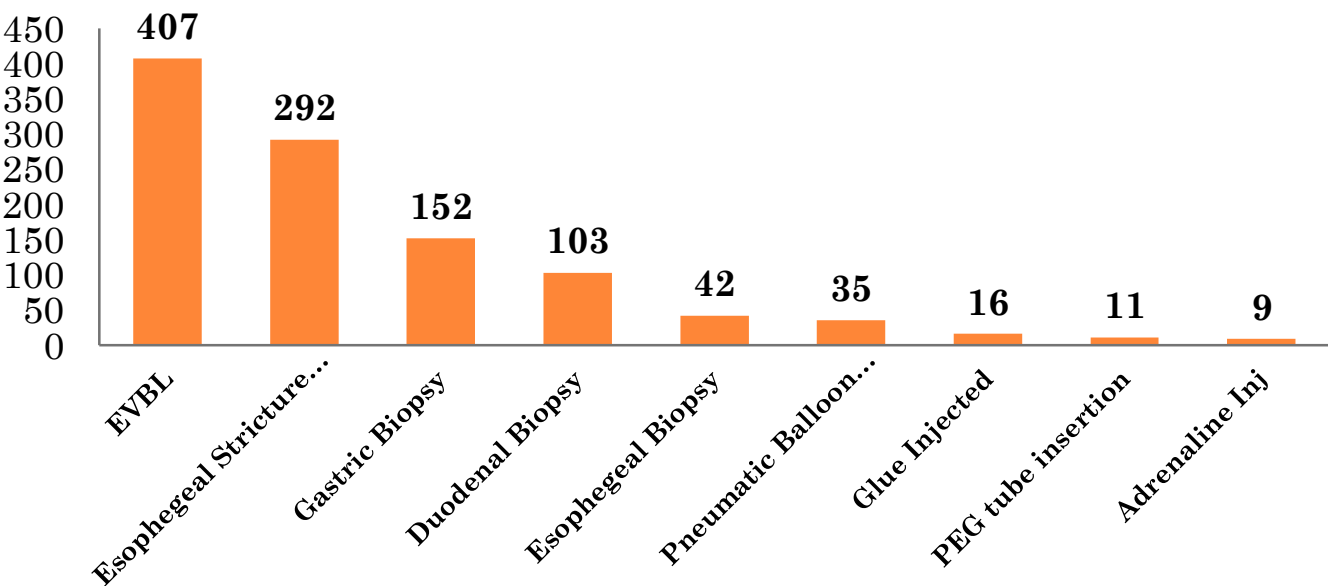
ENDOSCOPY INDICATIONS



Endoscopy Findings



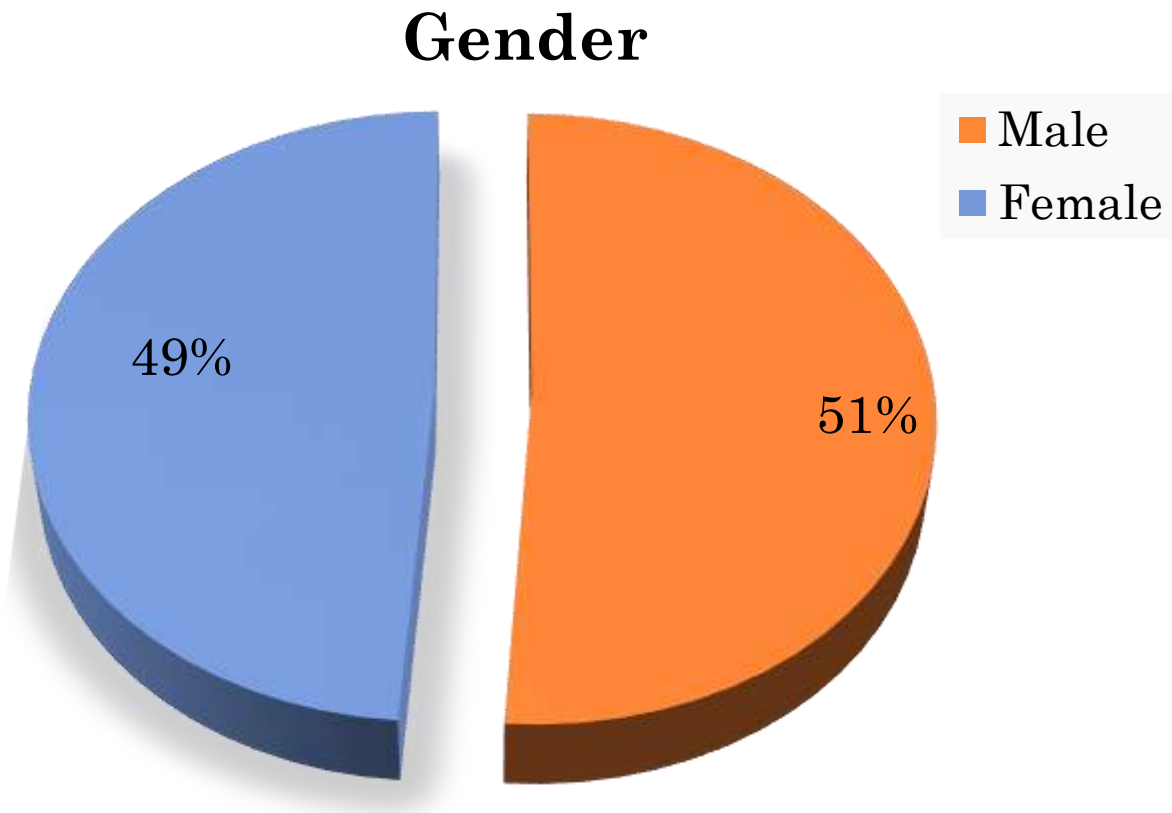
ENDOSCOPY INTERVENTIONS



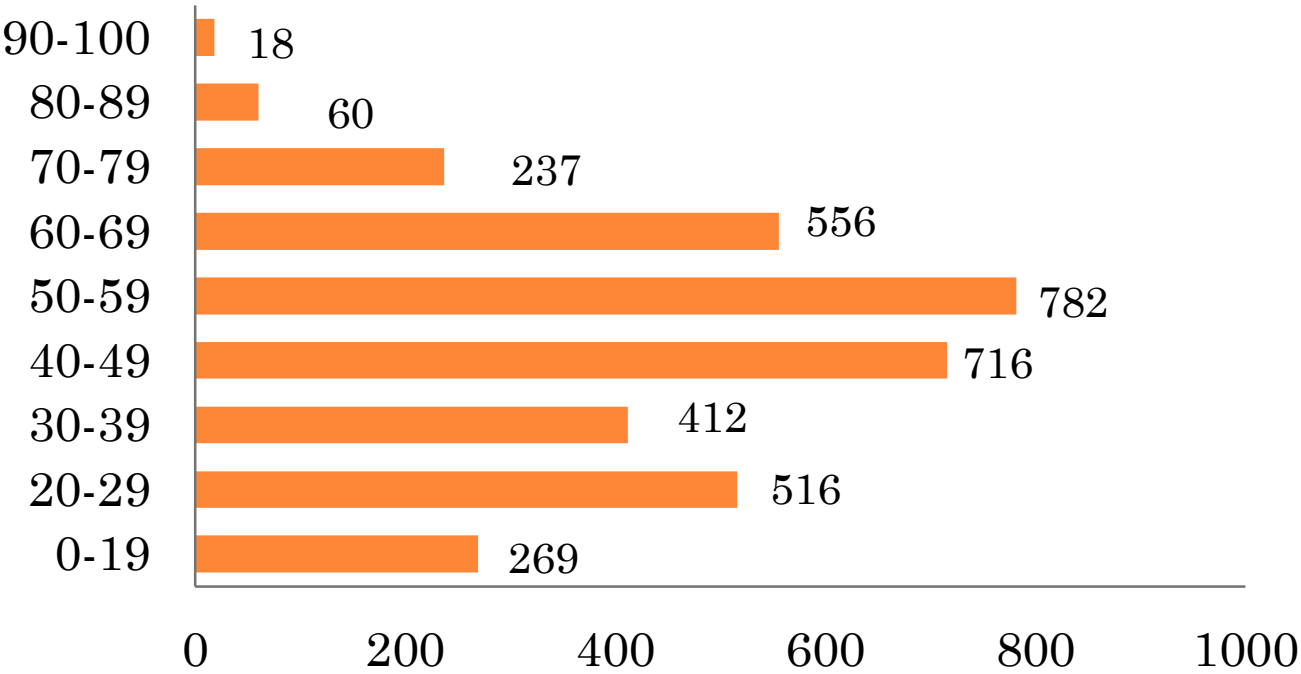
2022

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

Total No of Patients	3566
Male	1824
Female	1742

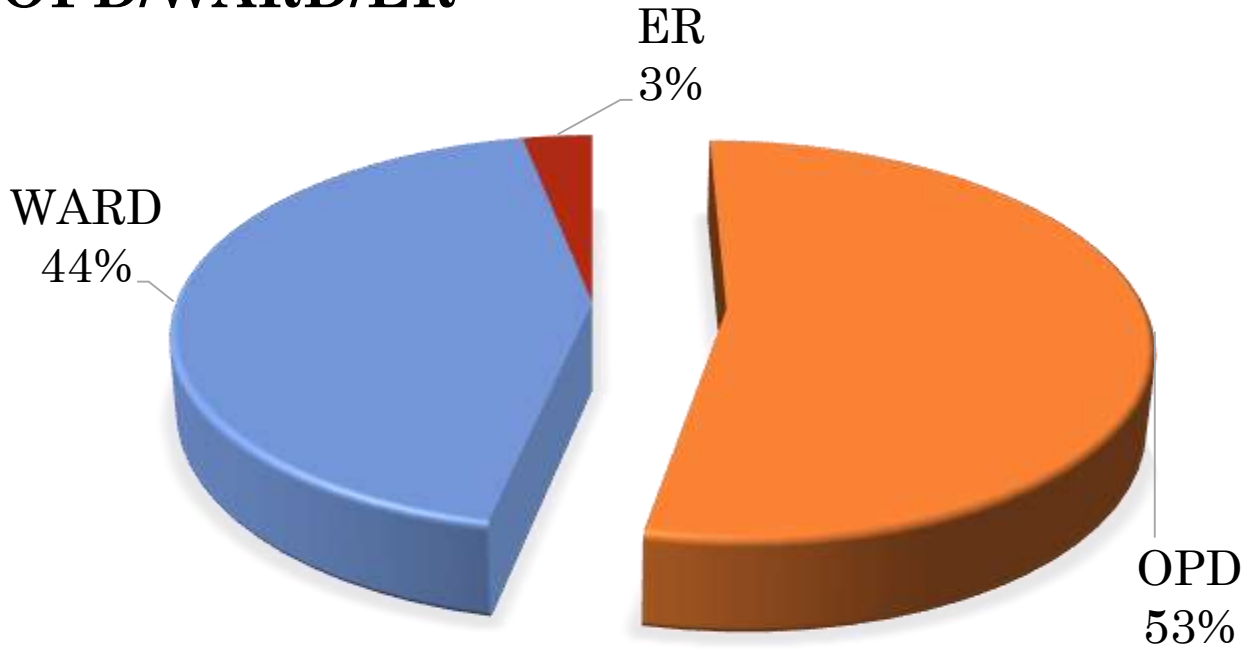


PATIENT AGE DISTRIBUTION

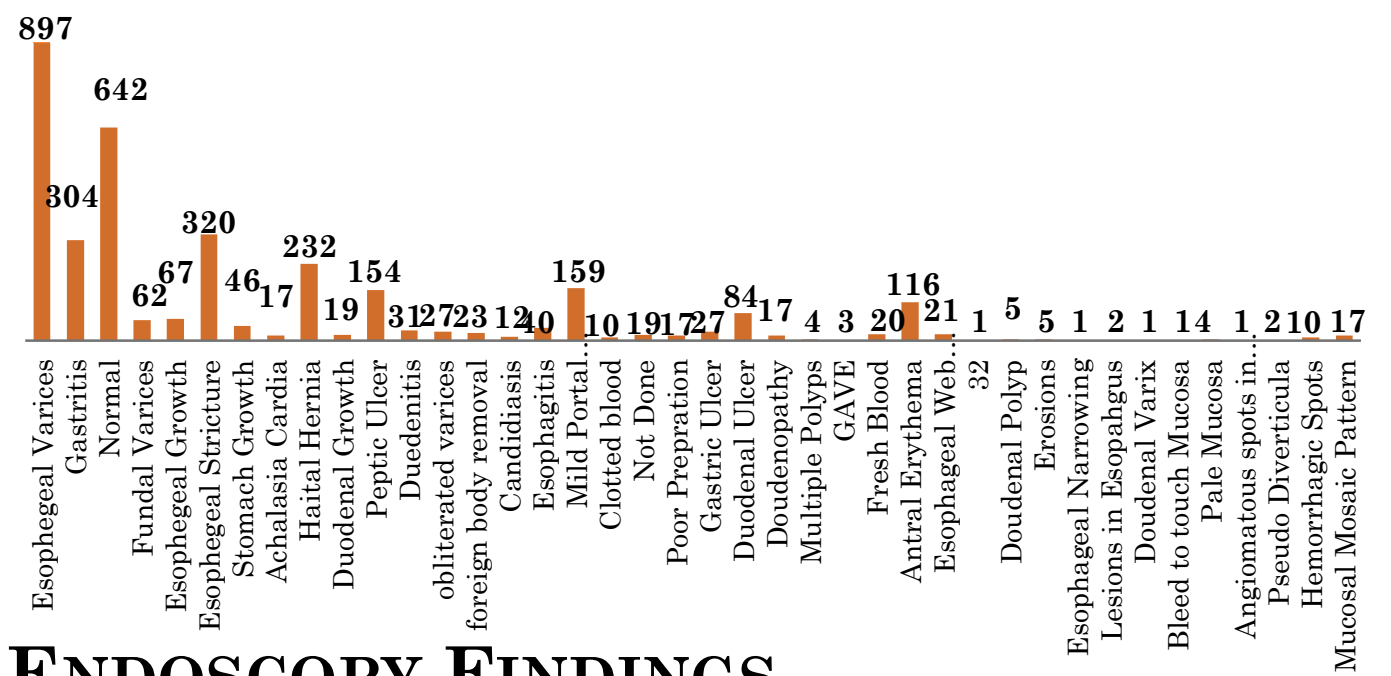


PATIENT REFERRAL SOURCE

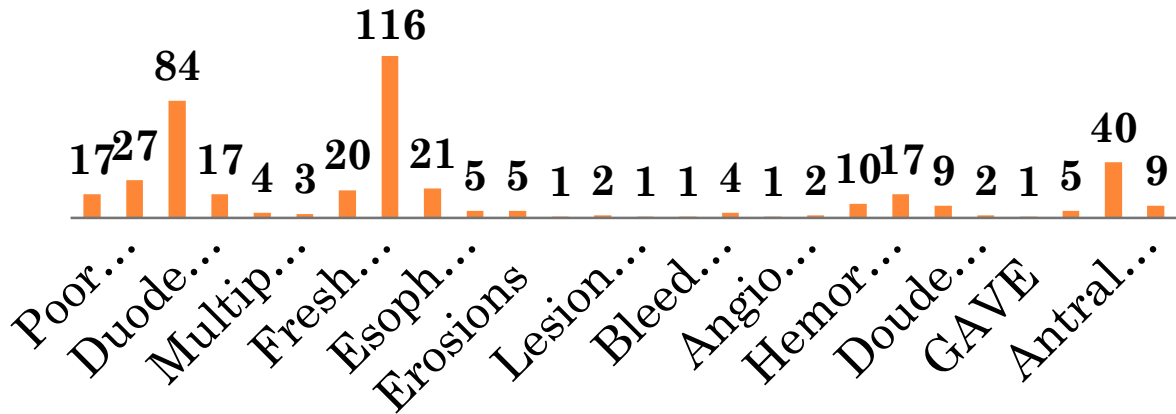
OPD/WARD/ER



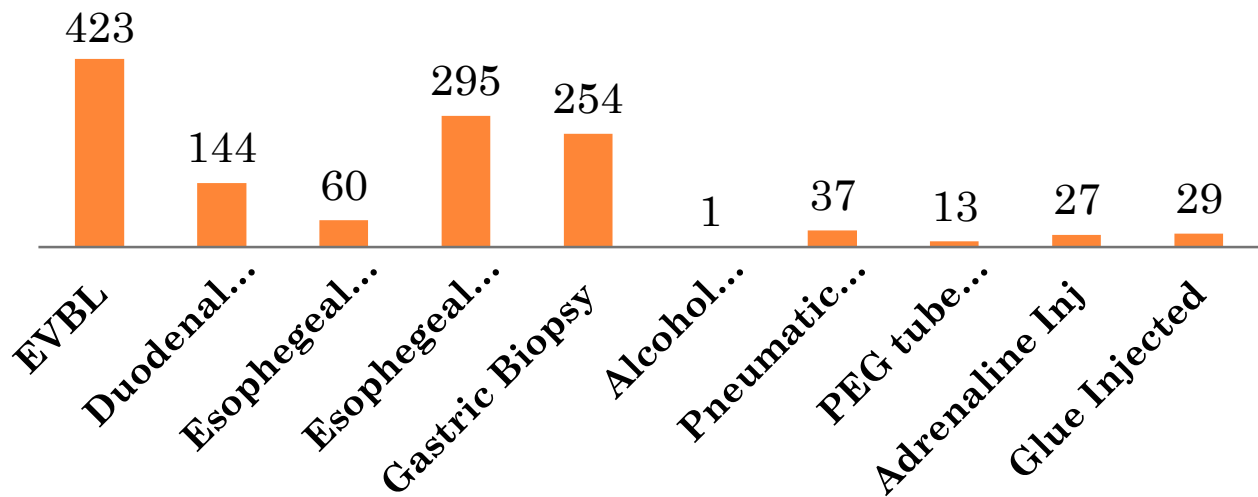
ENDOSCOPY INDICATIONS



ENDOSCOPY FINDINGS



ENDOSCOPY INTERVENTIONS



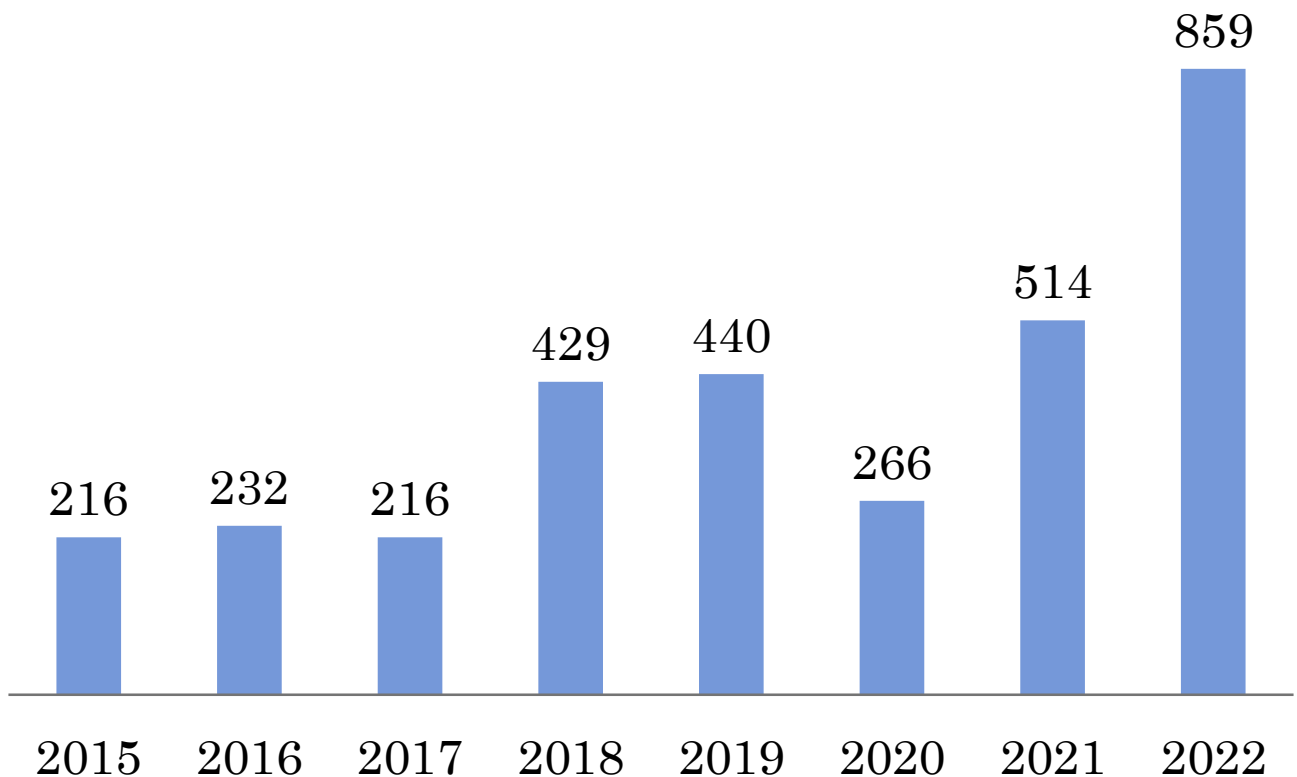
Colonoscopy Audit

Colonoscopy is a common GI procedure. It is Diagnostic as well as therapeutic day care Procedure with utmost importance in screening and surveillance of colon cancer.

At CLD, 266 colonoscopies performed in 2020, 514 in 2021 whereas during the year 2022 , 859 pts. underwent colonoscopy, which is the highest number in the last 5 years. This decline in number of cases during 2020-21 is likely due to limited entertainment of only priority cases during COVID era.

In 2022 out of the total 510 were Male and 349 were Females. The most common indication was per rectal bleed and the commonest positive finding was hemorrhoids followed by growth and polyp. 231 patients didn't reveal any abnormality and cecal intubation was successful in 313 patients only.

The audit report suggests a more intense supervised approach in the colonoscopy to improve the success rate and avoid chances of missing any lesion.

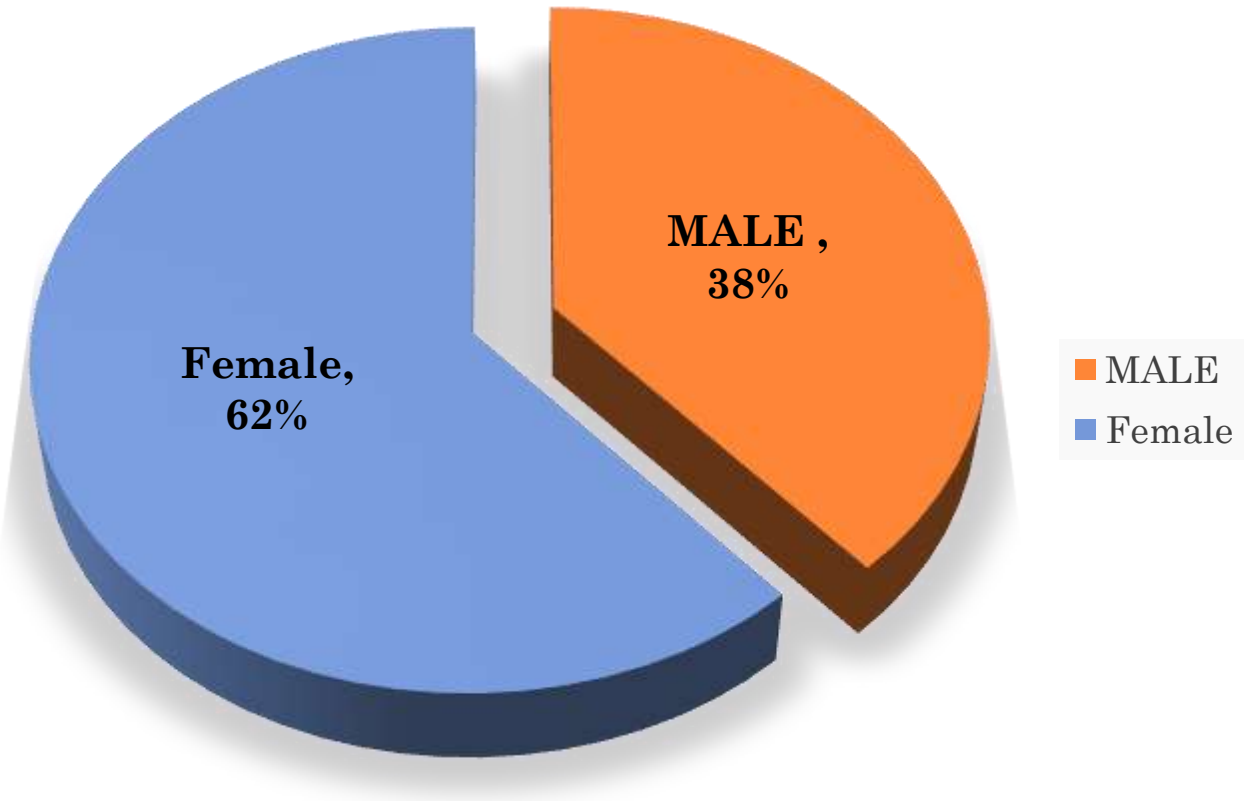


2020

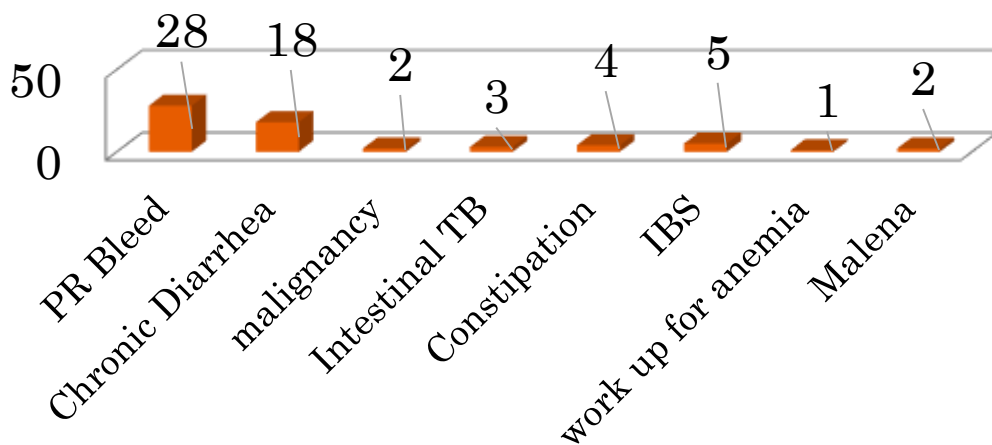
TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

Total No of Patients	266
Male	102
Female	164

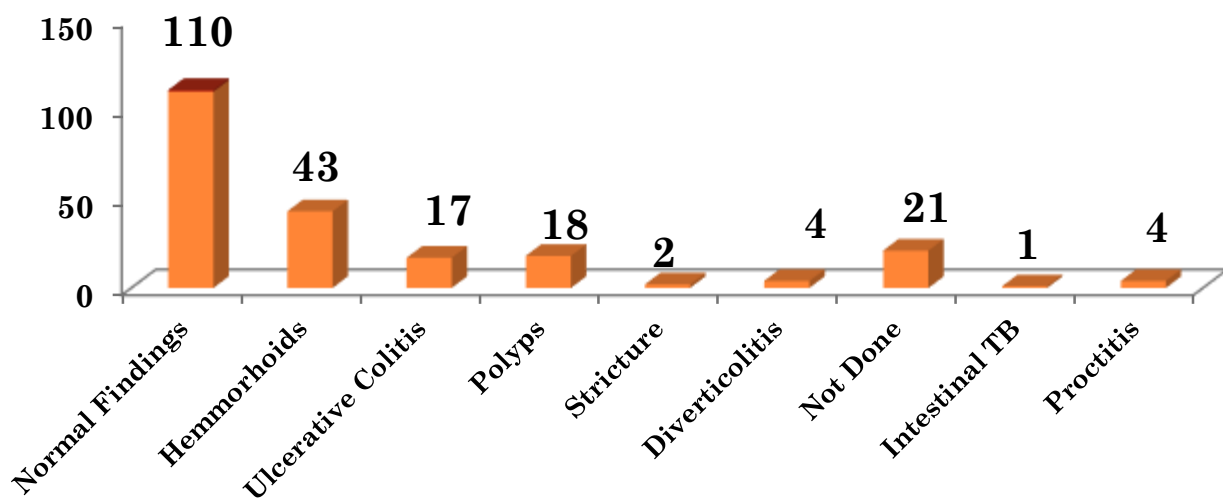
TOTAL NO OF PATIENTS



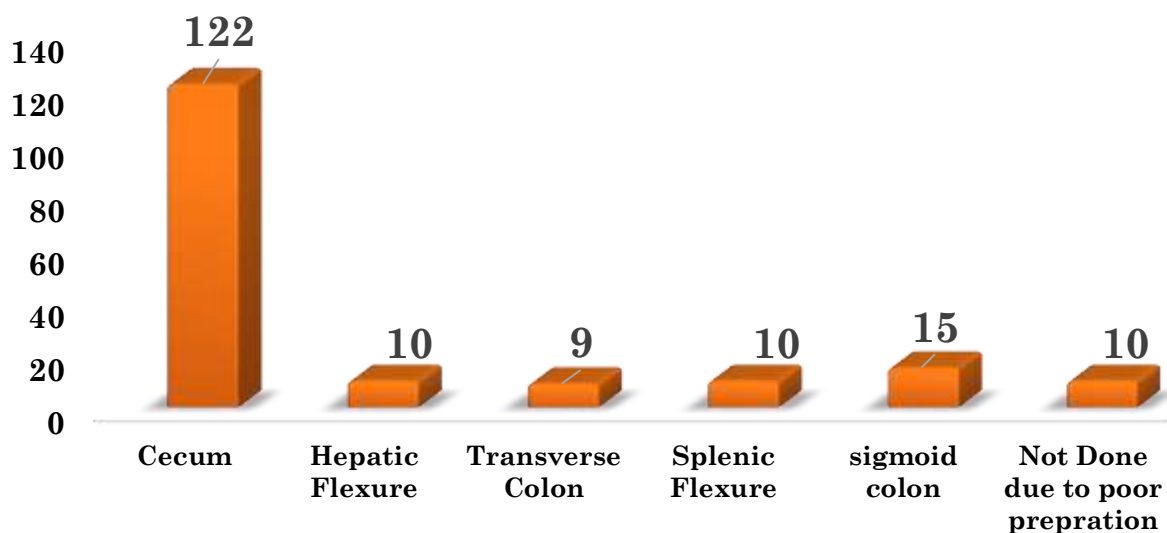
PRESENTING COMPLAINTS



COLONOSCOPY FINDINGS



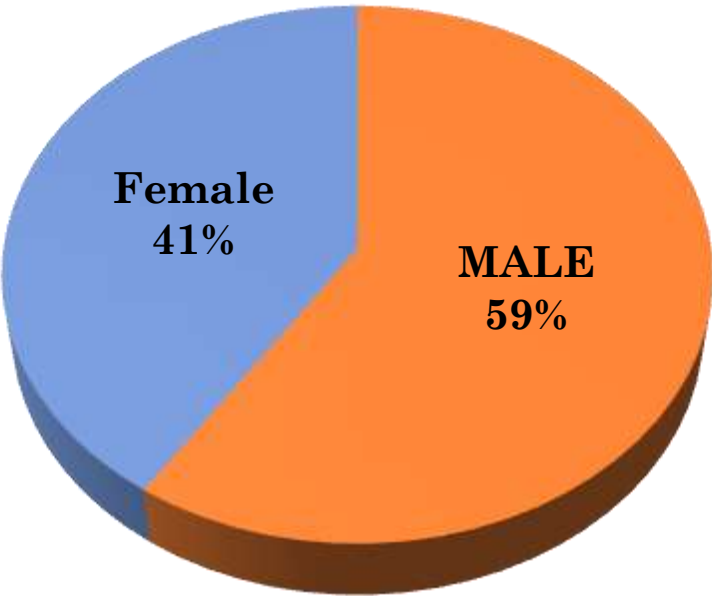
EXTENT OF PROCEDURE



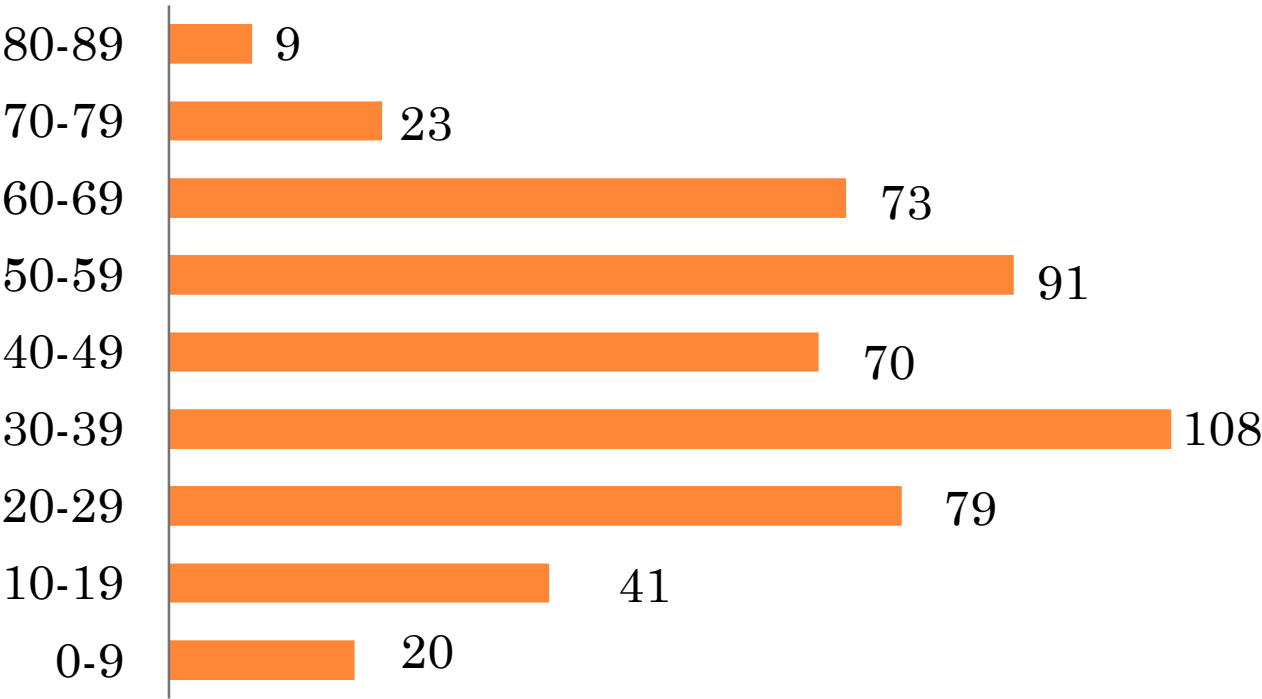
2021

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

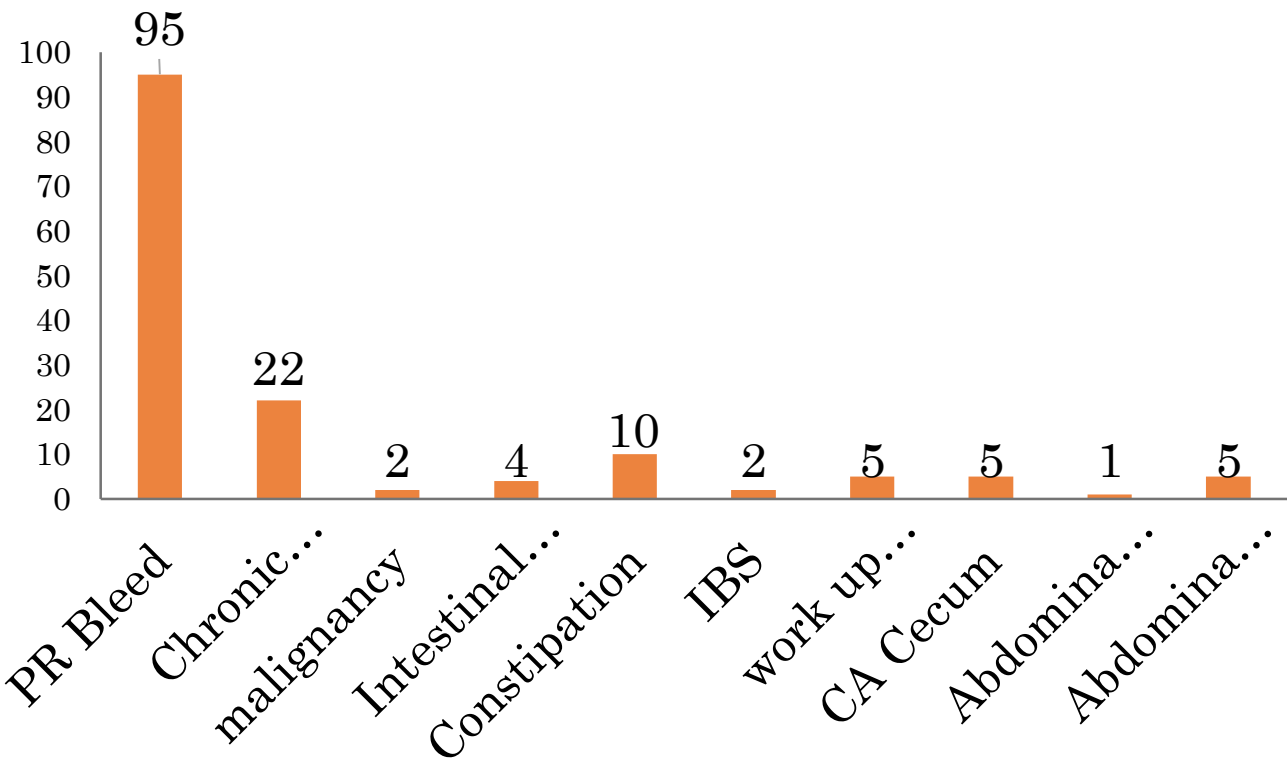
Total No of Patients	514
Male	305
Female	209



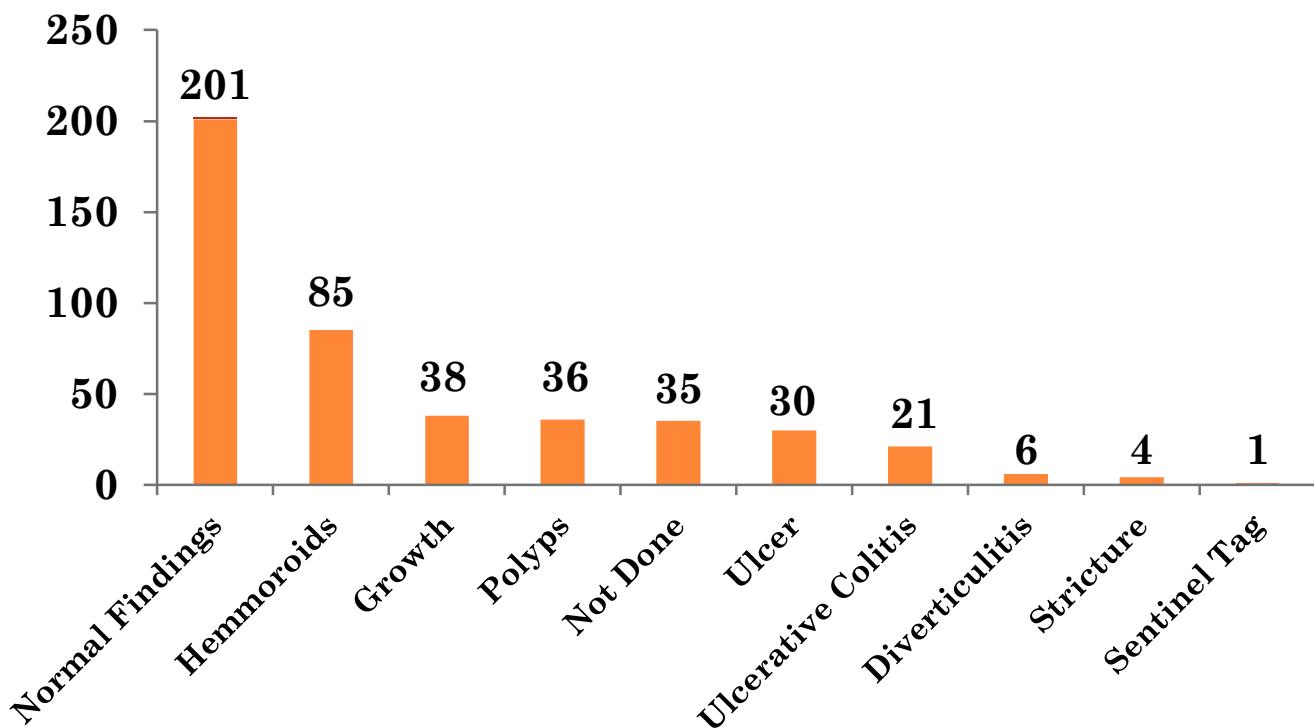
AGE WISE DISTRIBUTION



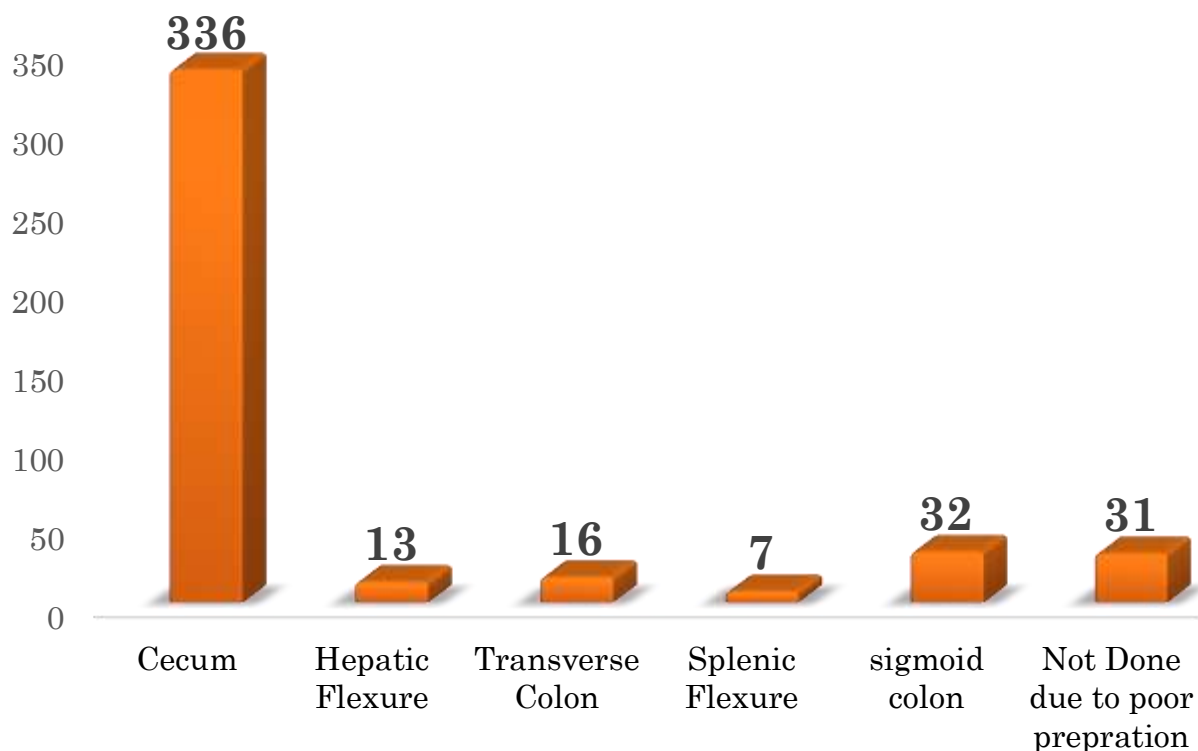
PRESENTING COMPLAINTS



COLONOSCOPY FINDINGS

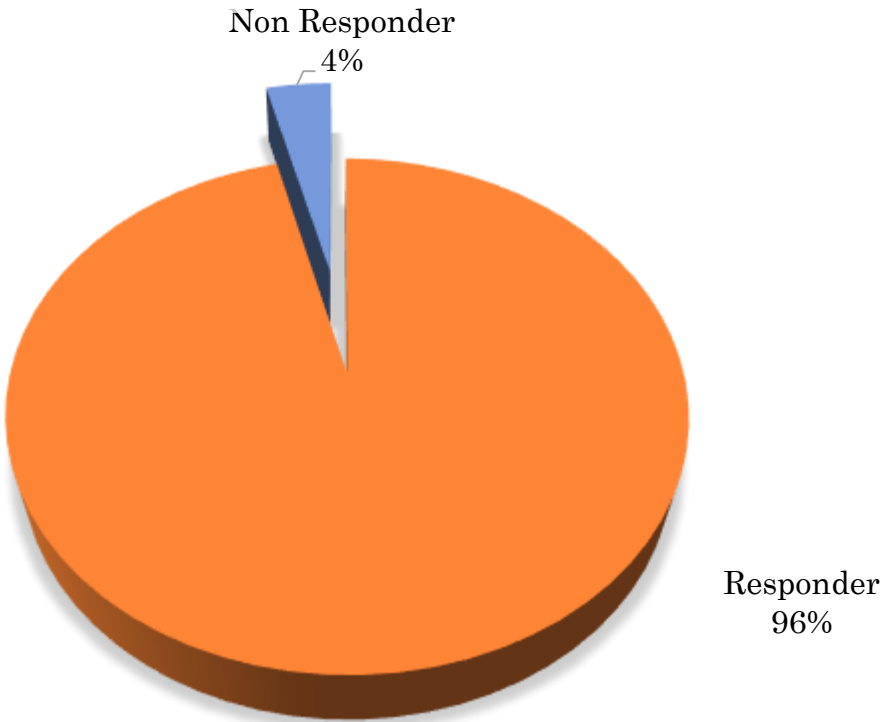


EXTENT OF PROCEDURE

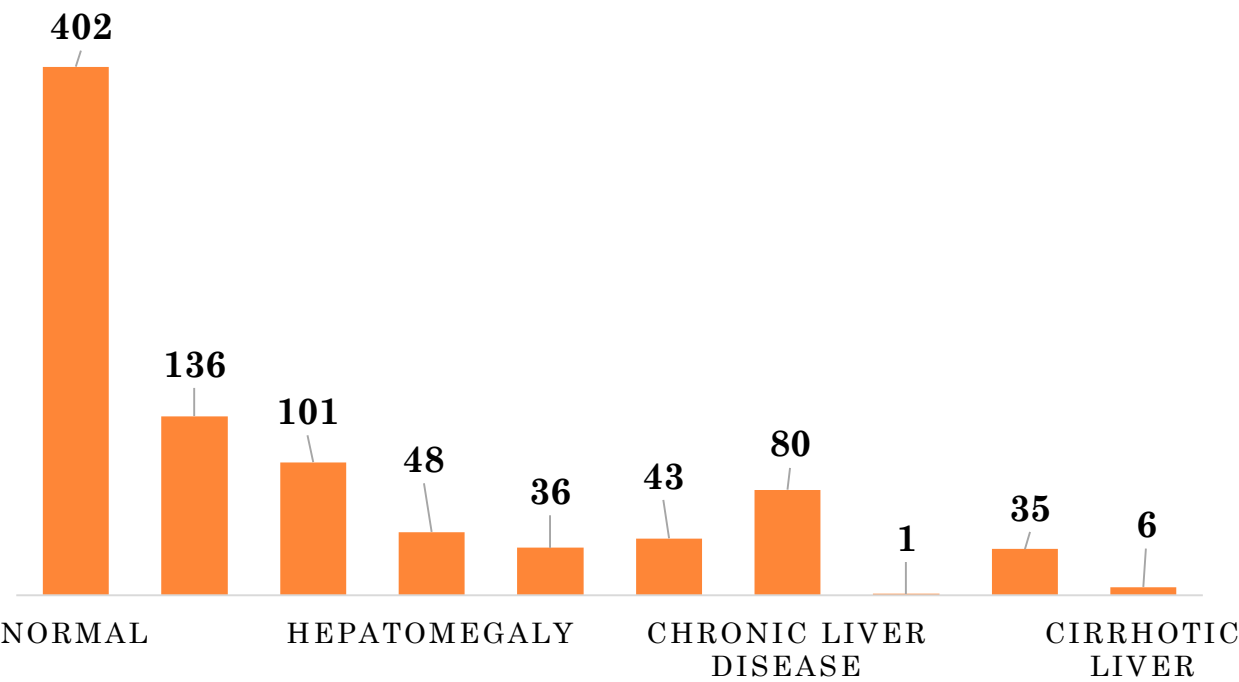


RESPONDER, NON RESPONDER

Responder Non Responder



USG

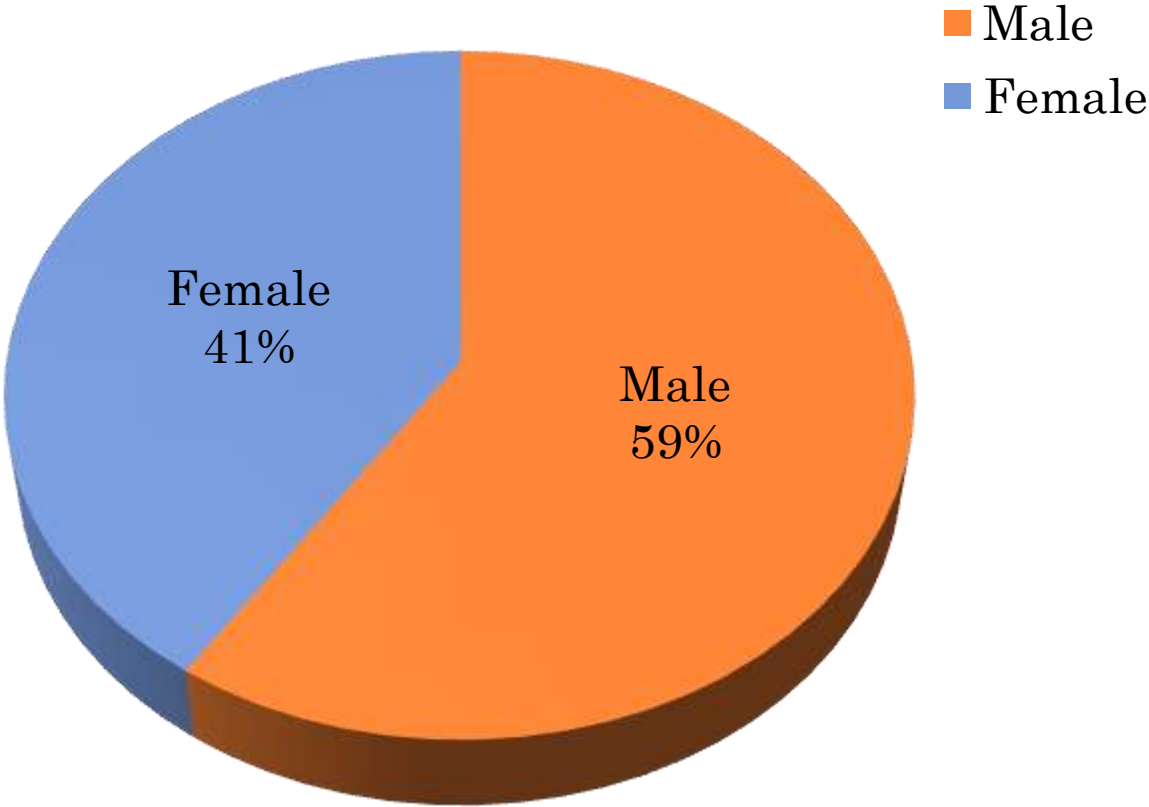


2022

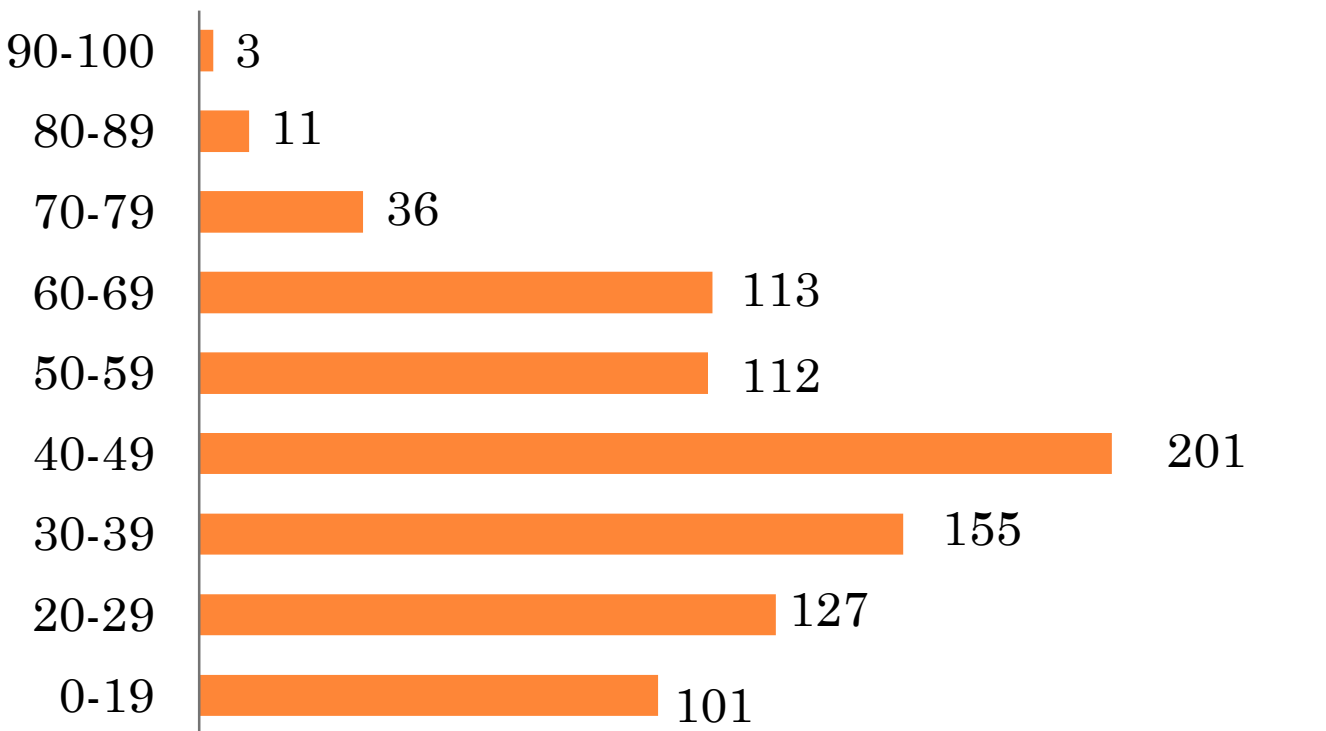
TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

Total No of Patients	859
Male	510
Female	349

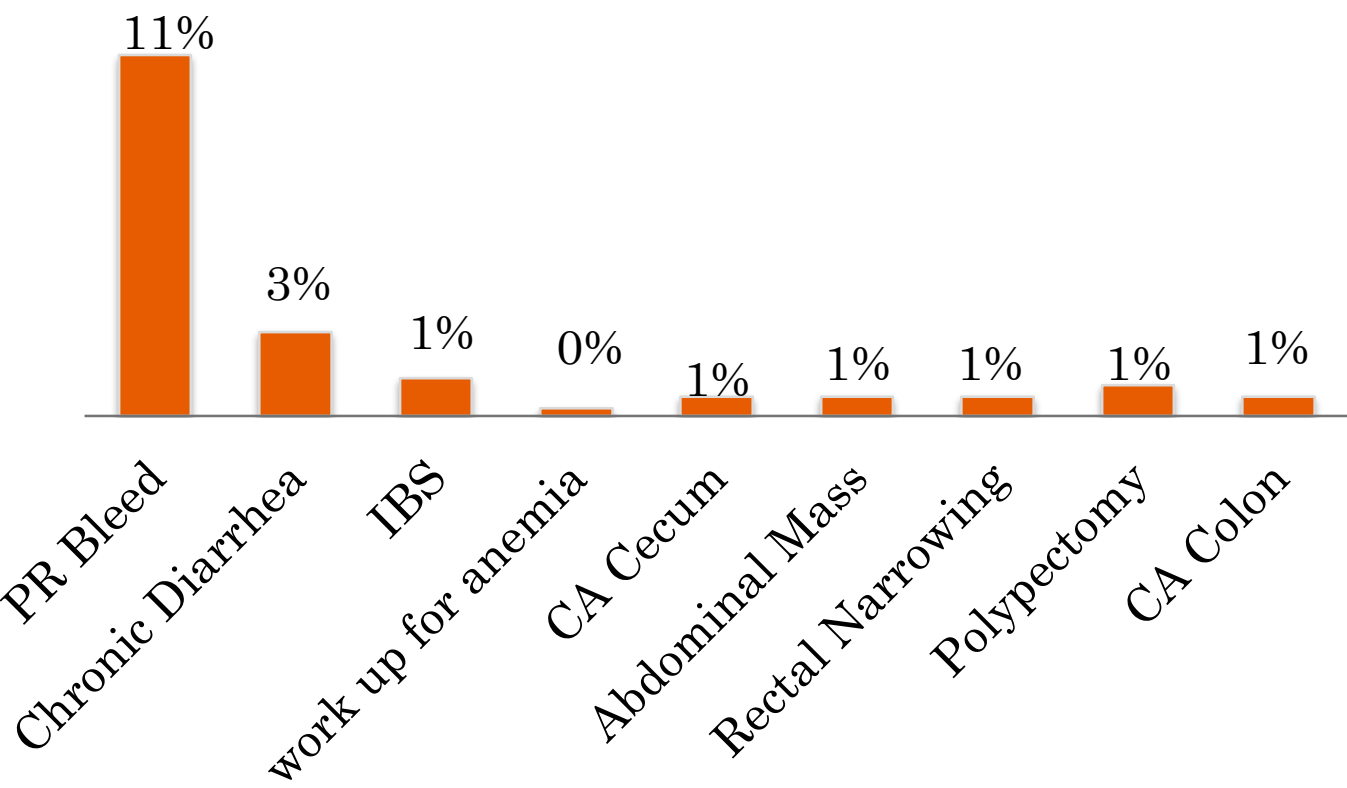
Gender



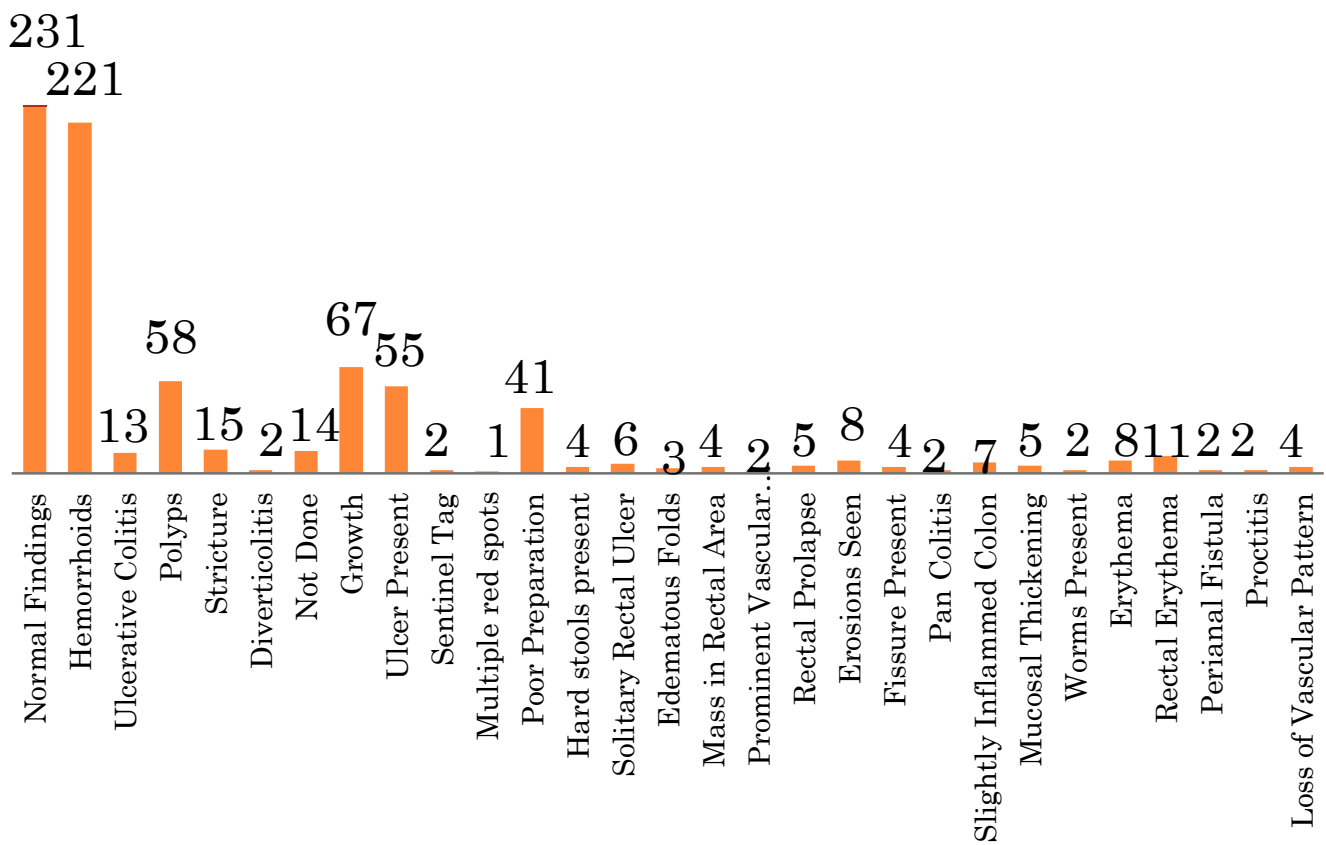
AGE WISE DISTRIBUTION



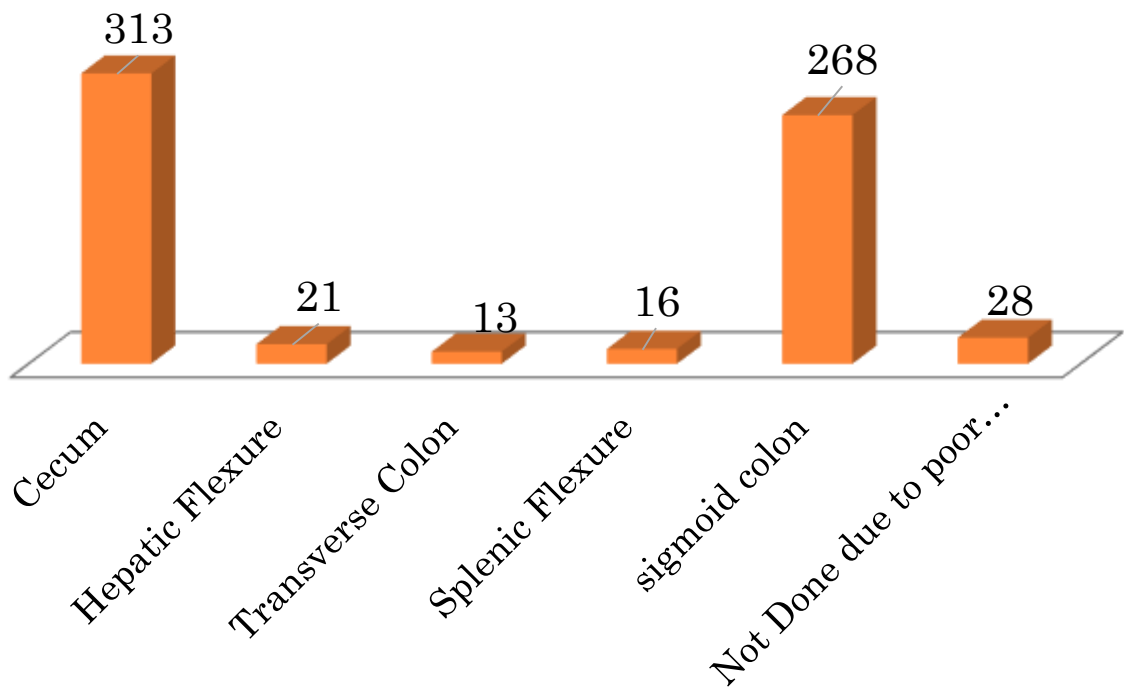
PRESENTING COMPLAINTS



COLONOSCOPY FINDINGS

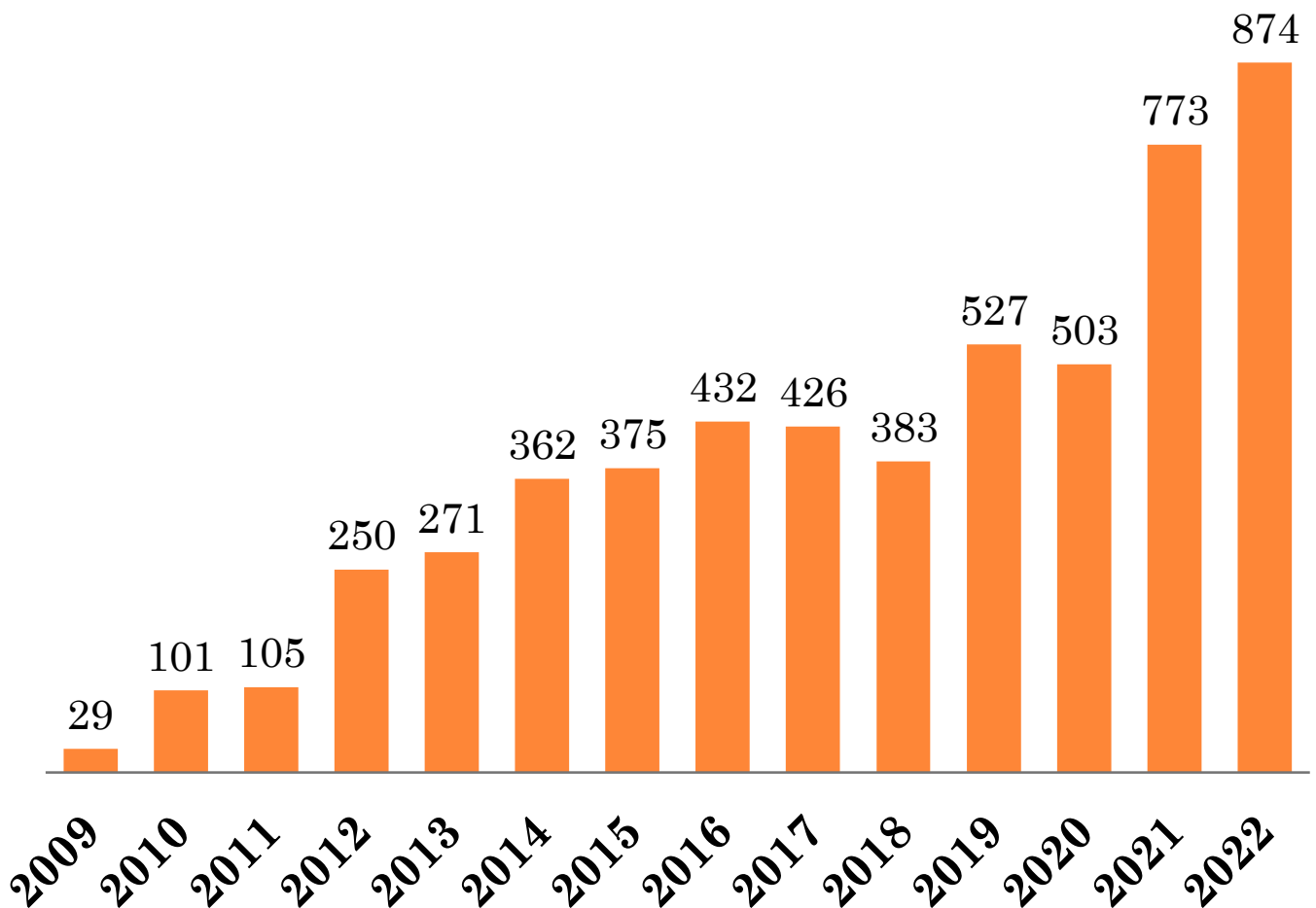


EXTENT OF PROCEDURE



ERCP Audit

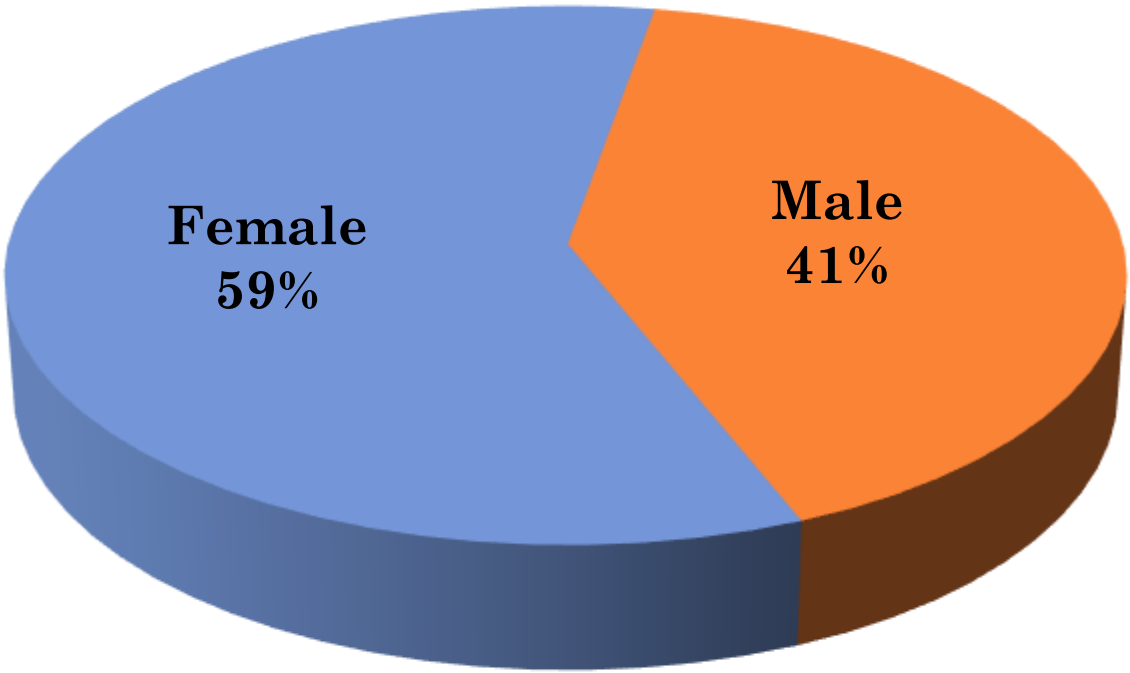
ERCP developed in 1960 as a pancreaticobiliary diagnostic procedure. ERCP has recently evolved as a therapeutic procedure only. Our center is now performing an average of 700-800 procedures per year. Despite COVID 503 patients were entertained during 2020. The number subsequently rose to 773 in 2021 and 874 in 2022 respectively. Commonest indication is choledocholithiasis, stenting was performed in 137 patients with 10 FR x 10cm plastic stent is the commonest stent used at our center this year. Overall success rate was 88% and in 70% of the cases the cannulation time was <3 minutes.



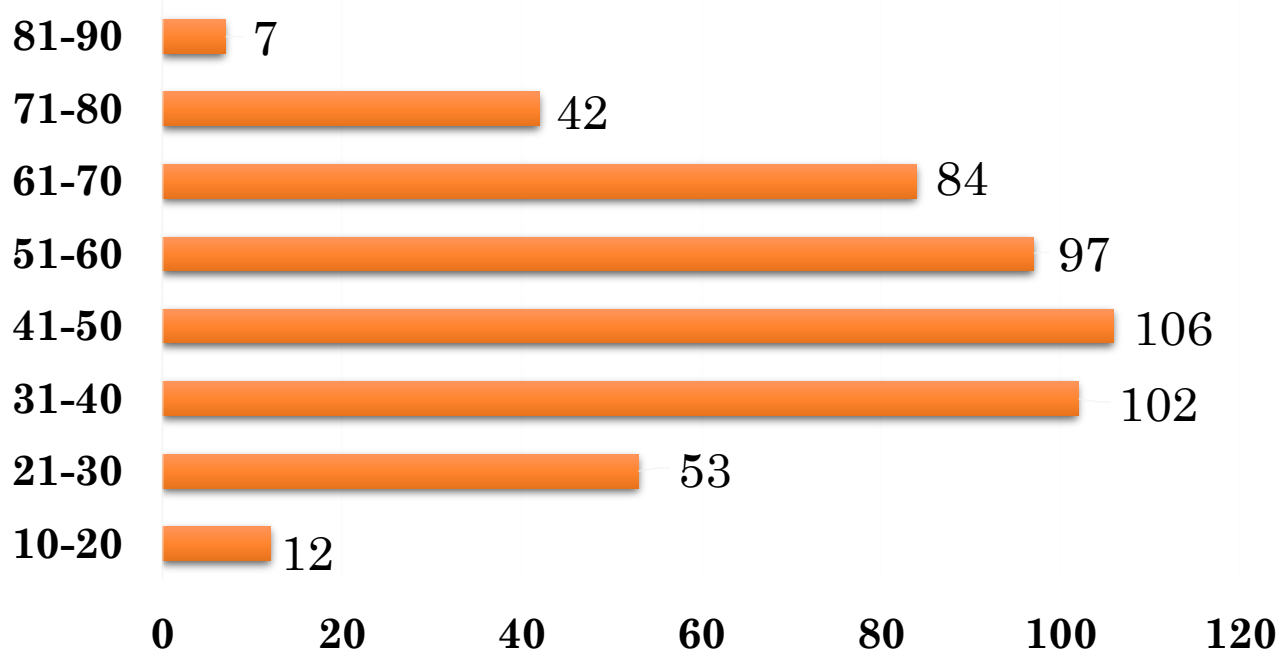
2020

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

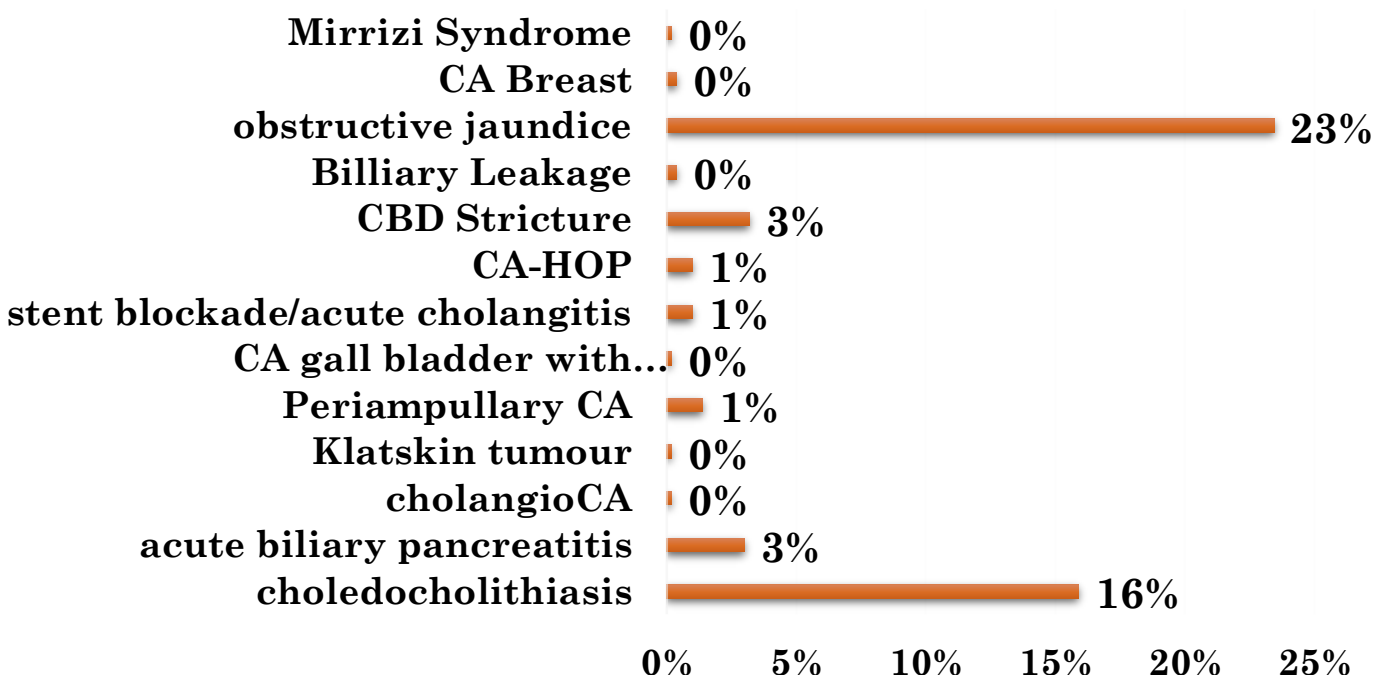
Total Patient:	503
Male	207
Female	296



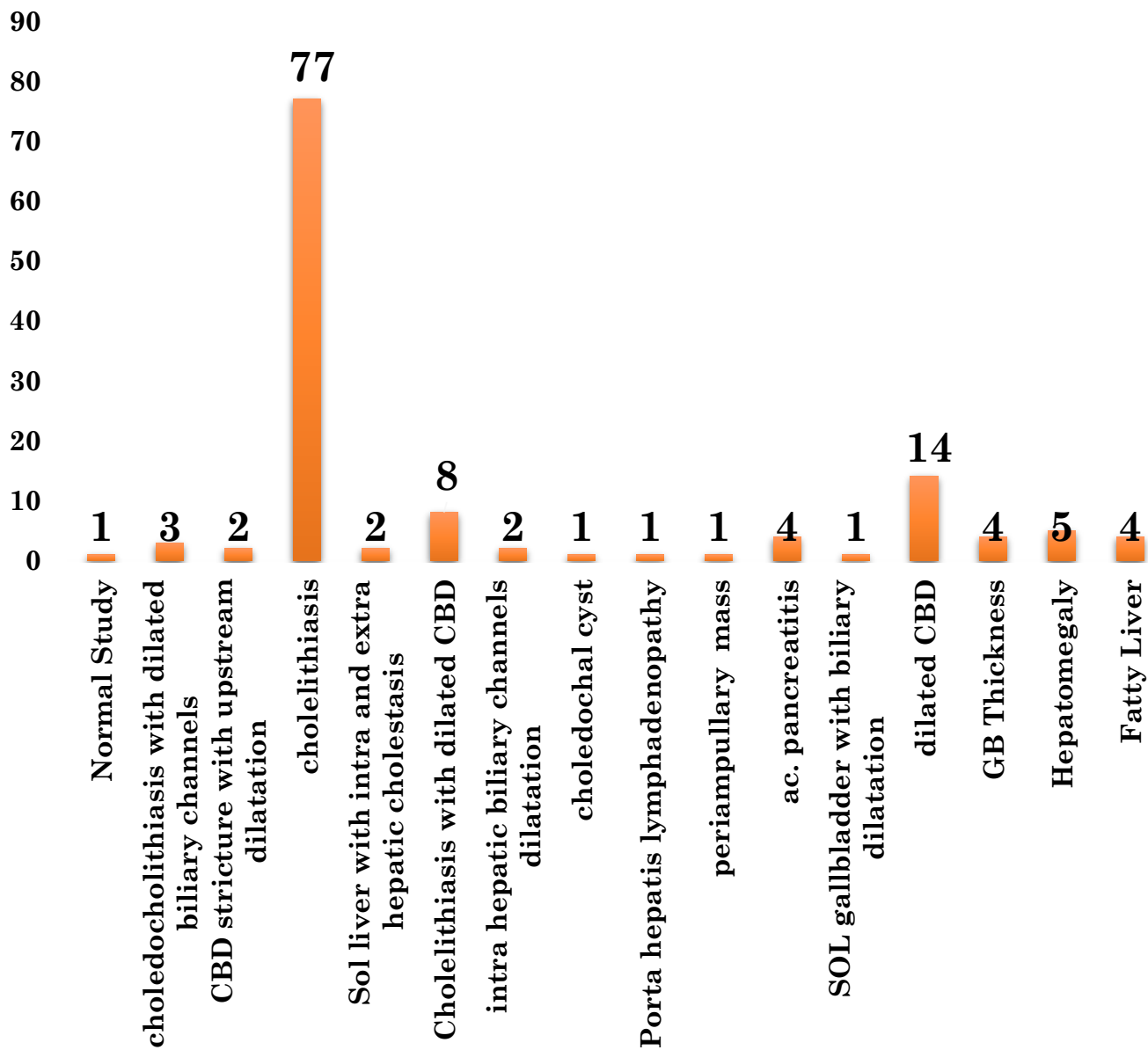
AGE WISE DISTRIBUTION

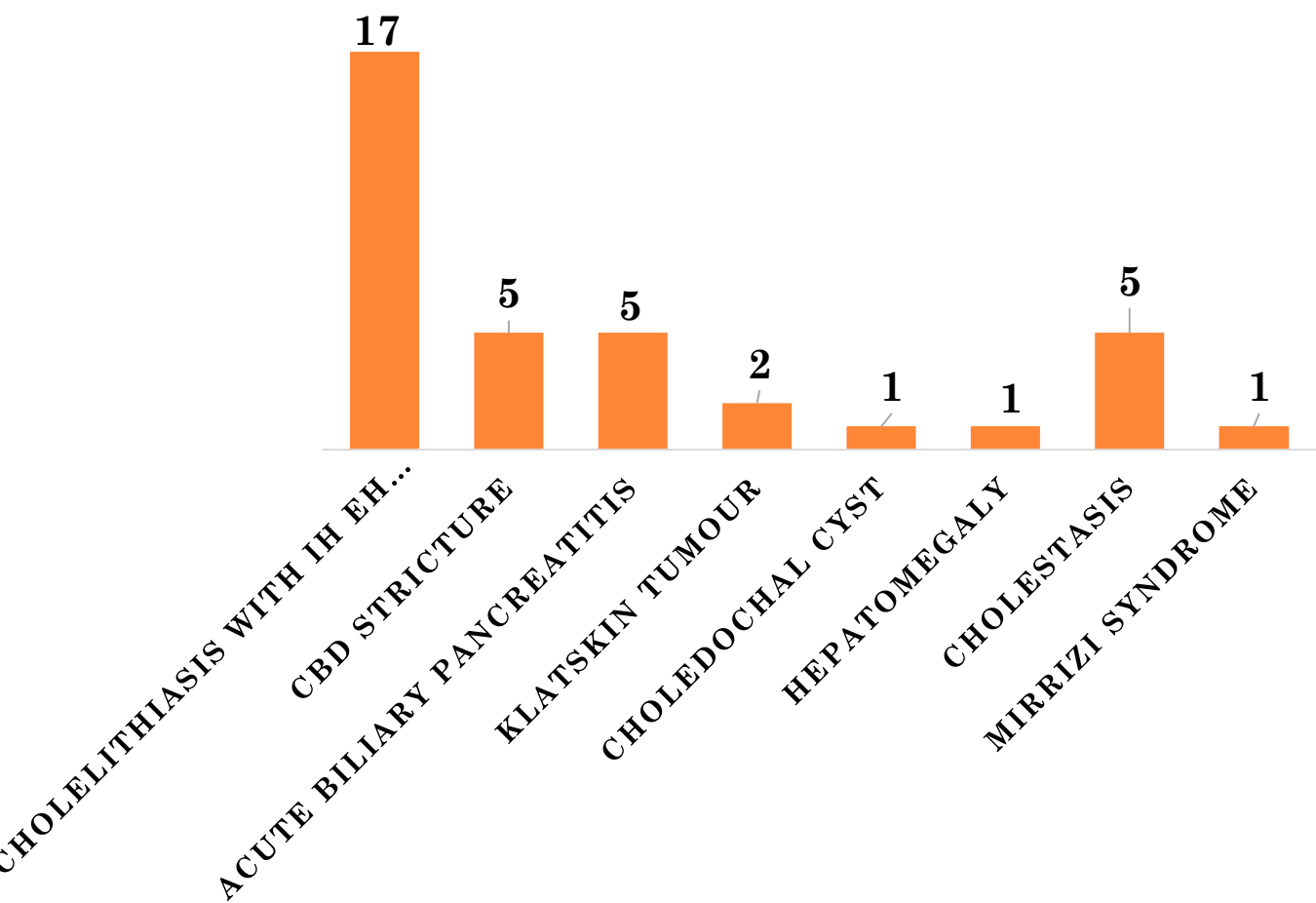


ERCP INDICATION

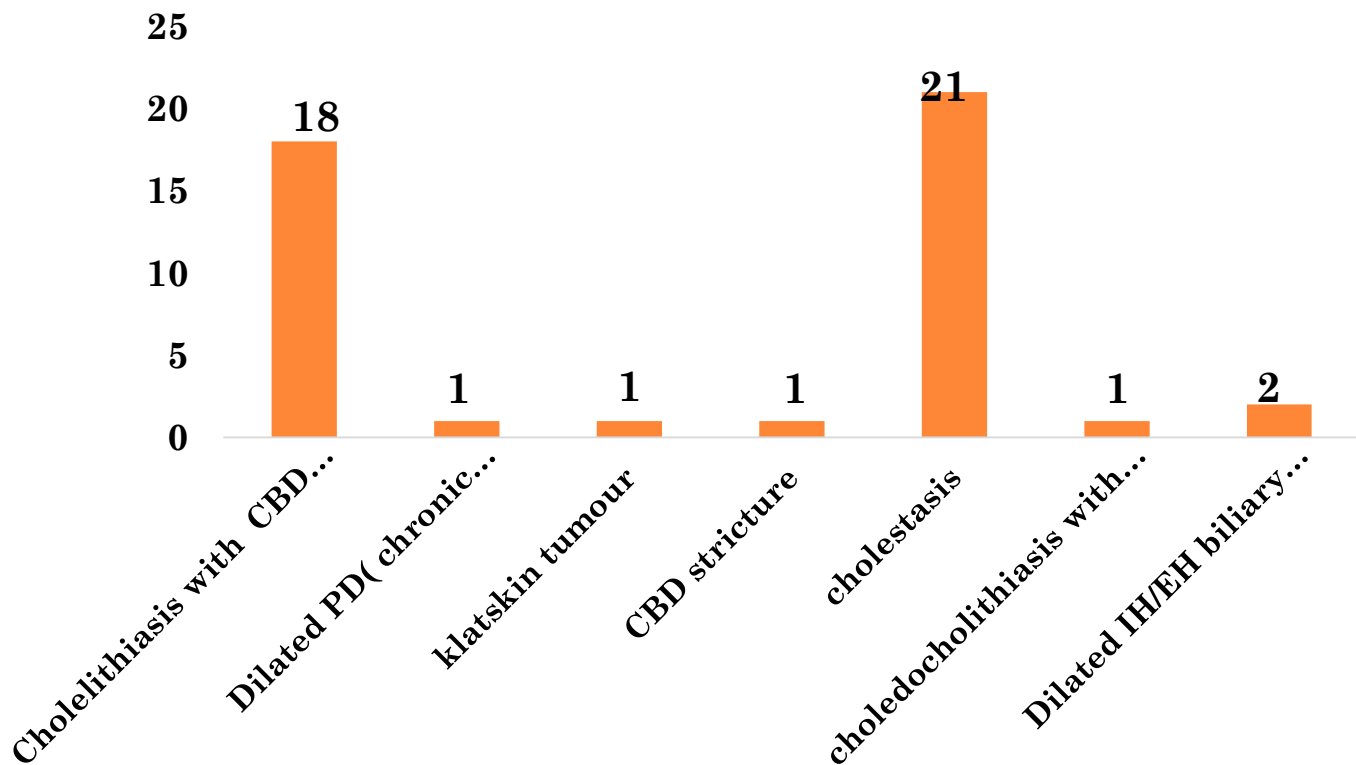


USG FINDINGS

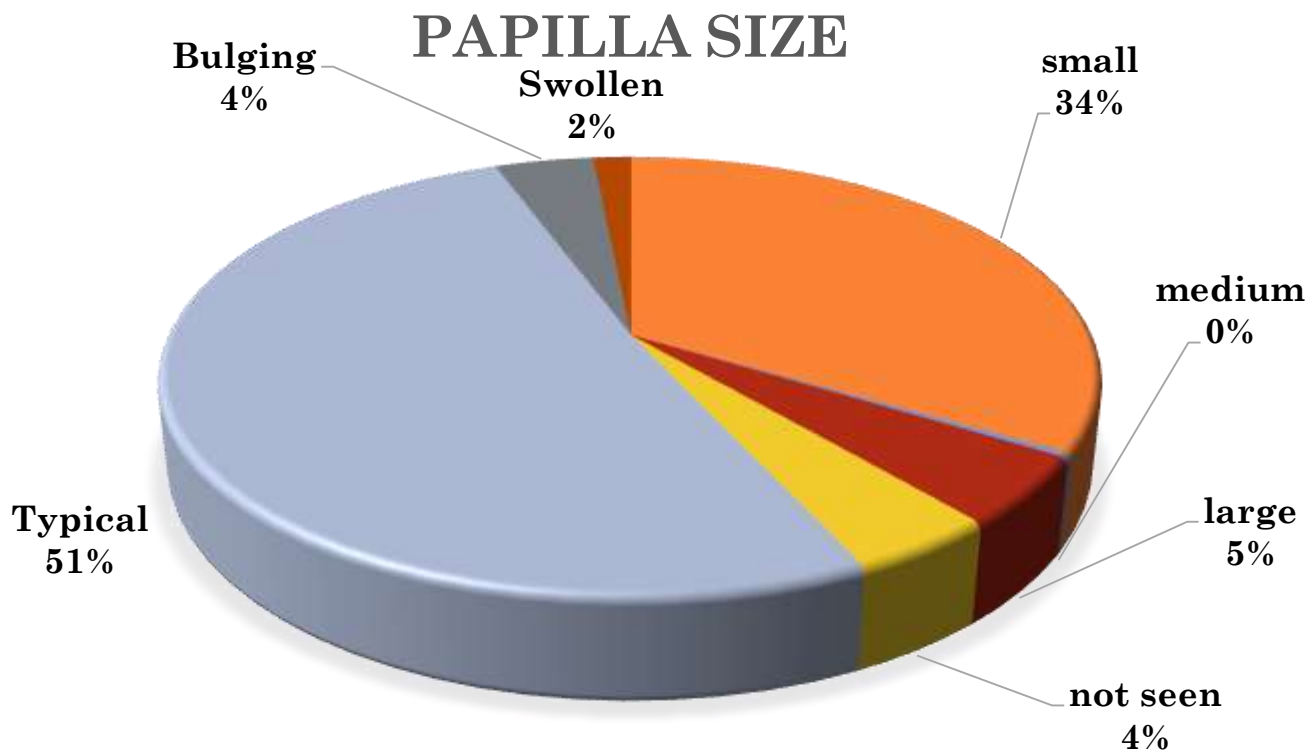
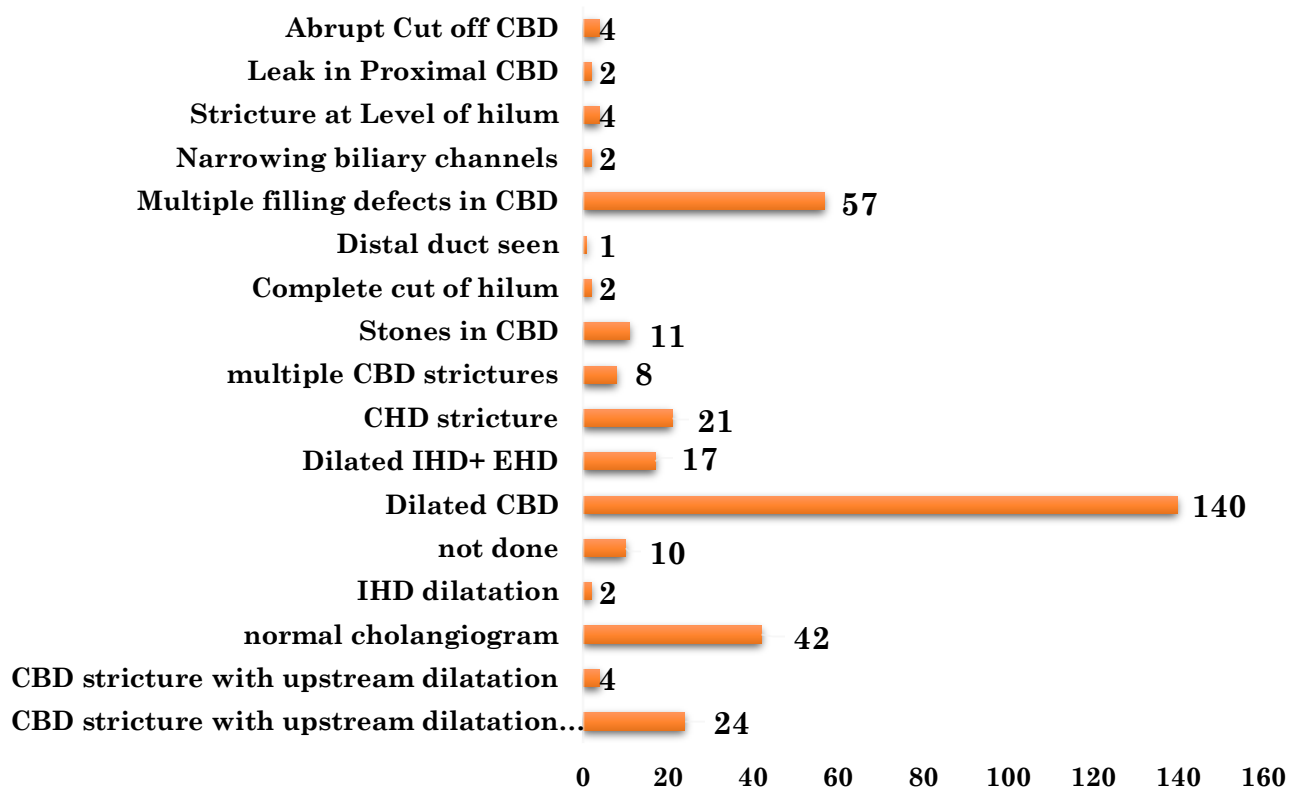




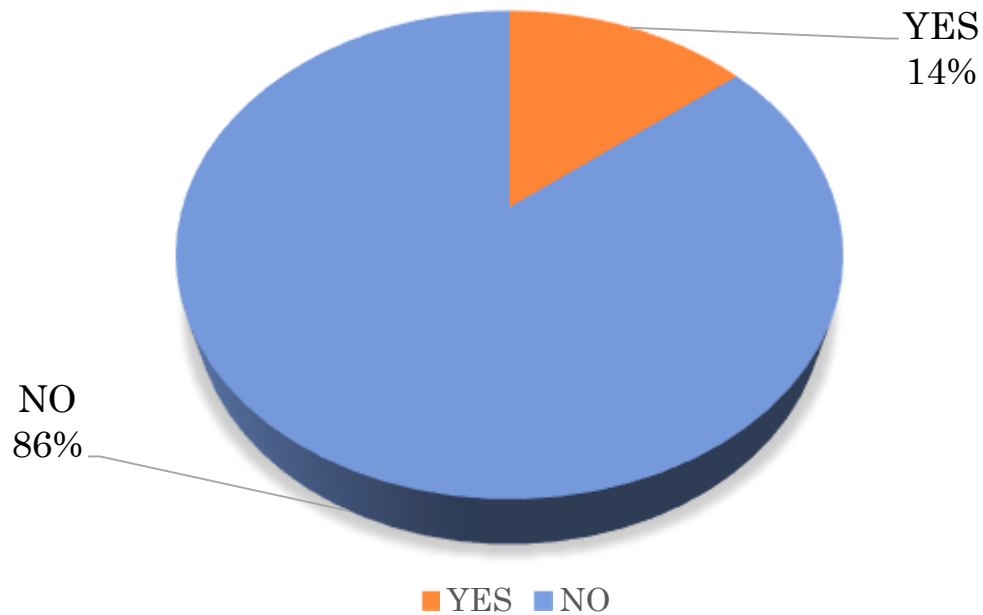
MRCF FINDINGS



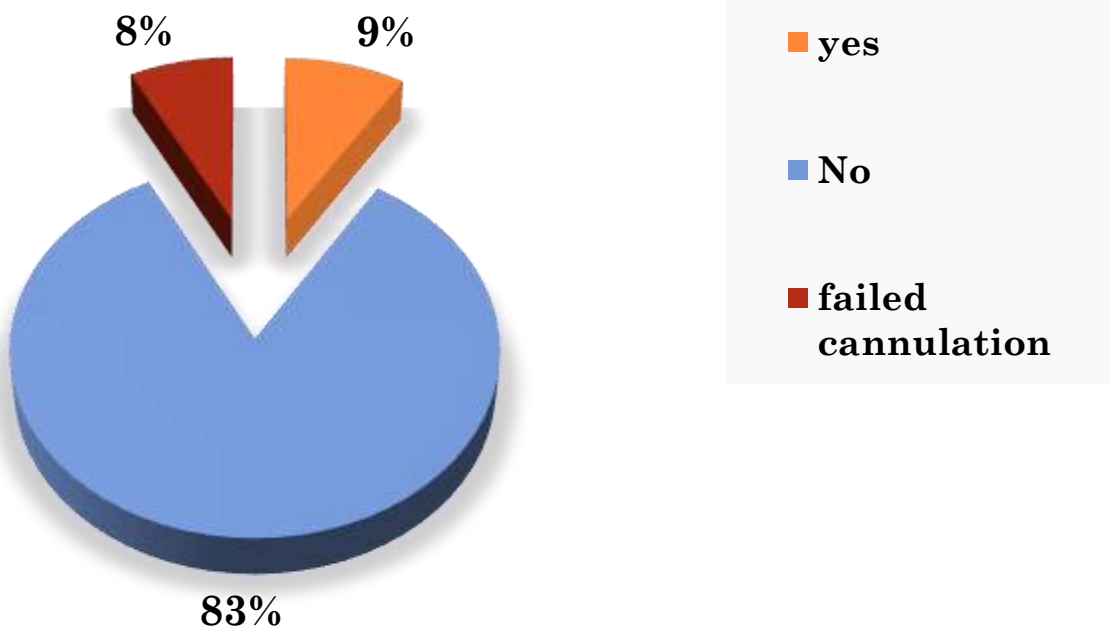
CHOLANGIOGRAM FINDINGS



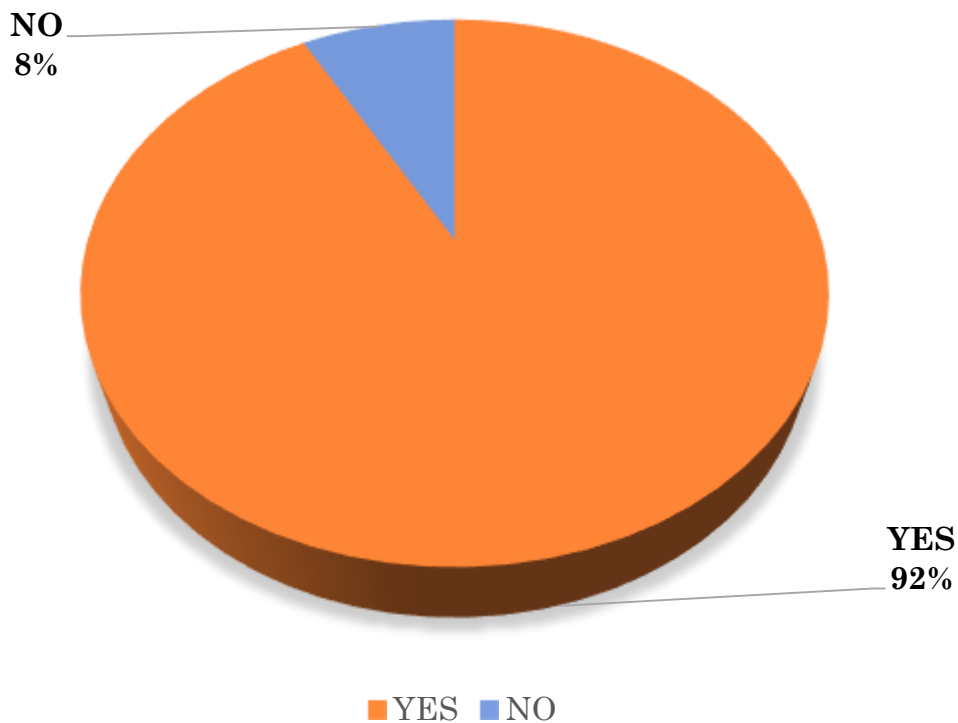
BILE FLOW PRESENT



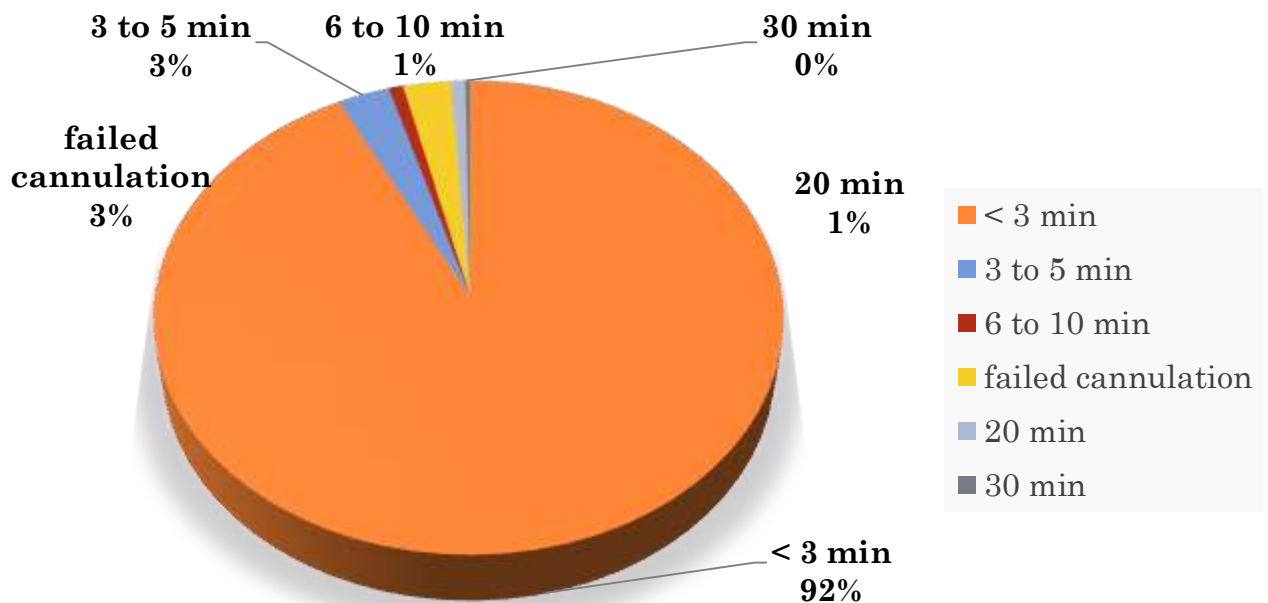
Difficult Cannulation



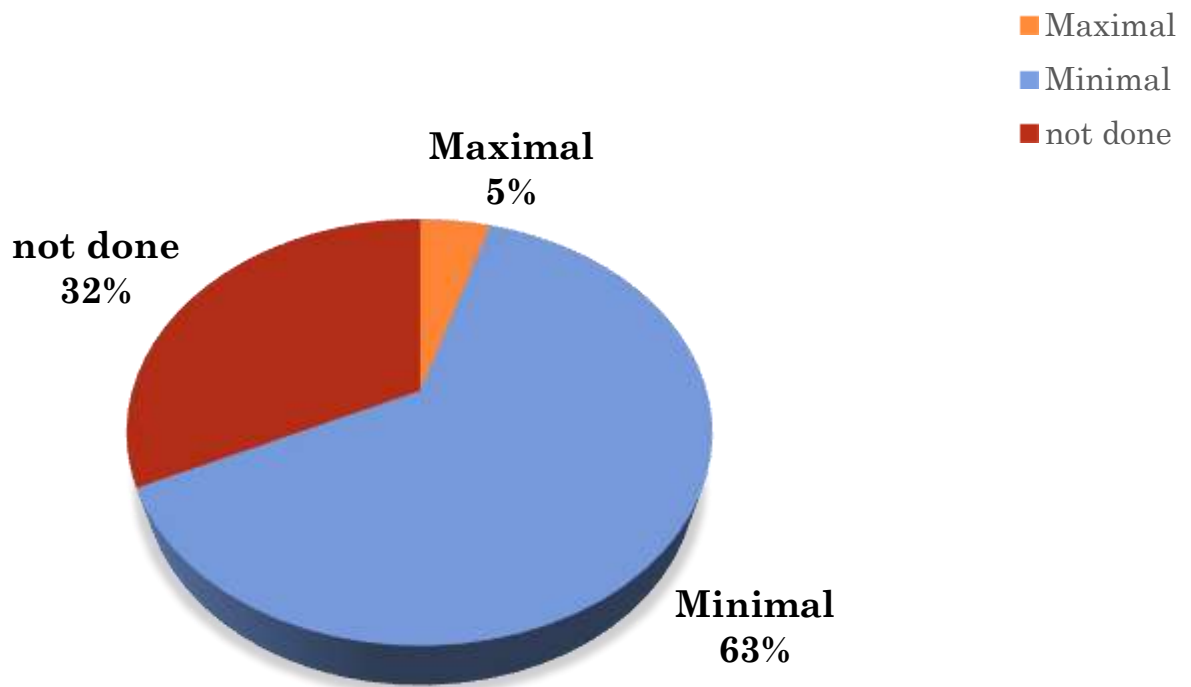
CANNULATION SUCCESSFUL



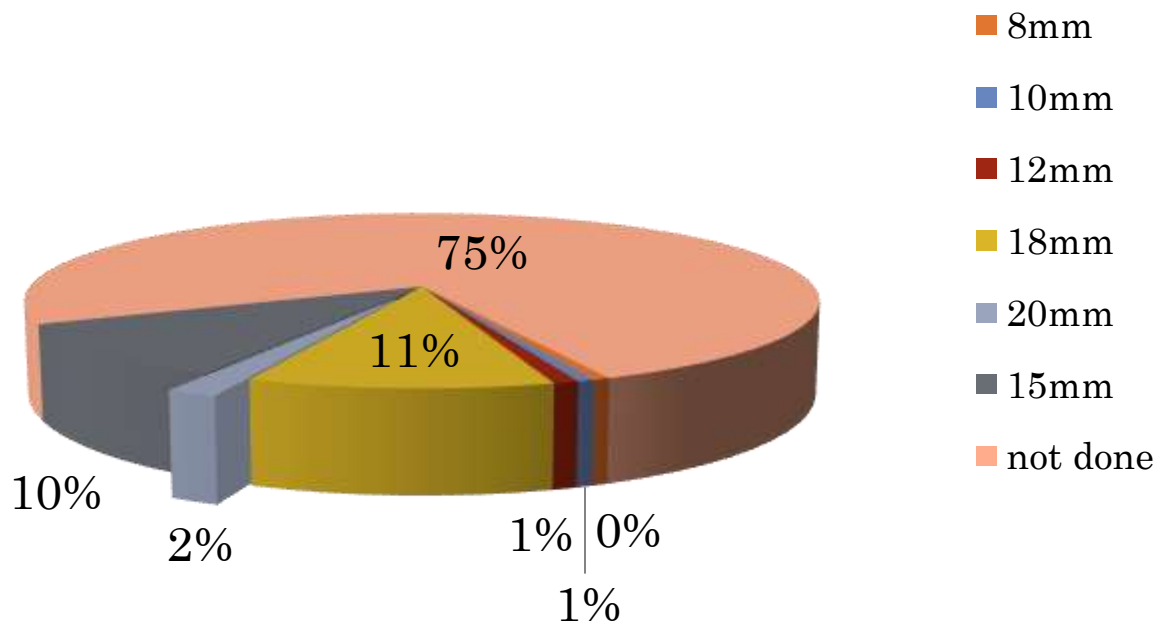
CANNULATION TIME IN MINUTES



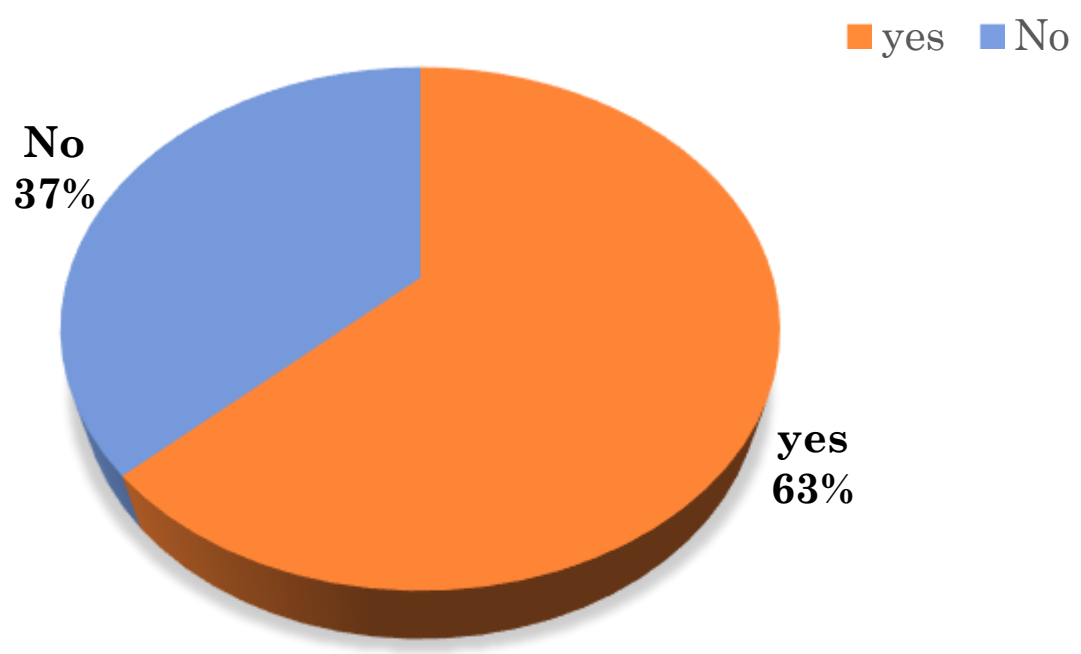
SPHINCTEROTOMY



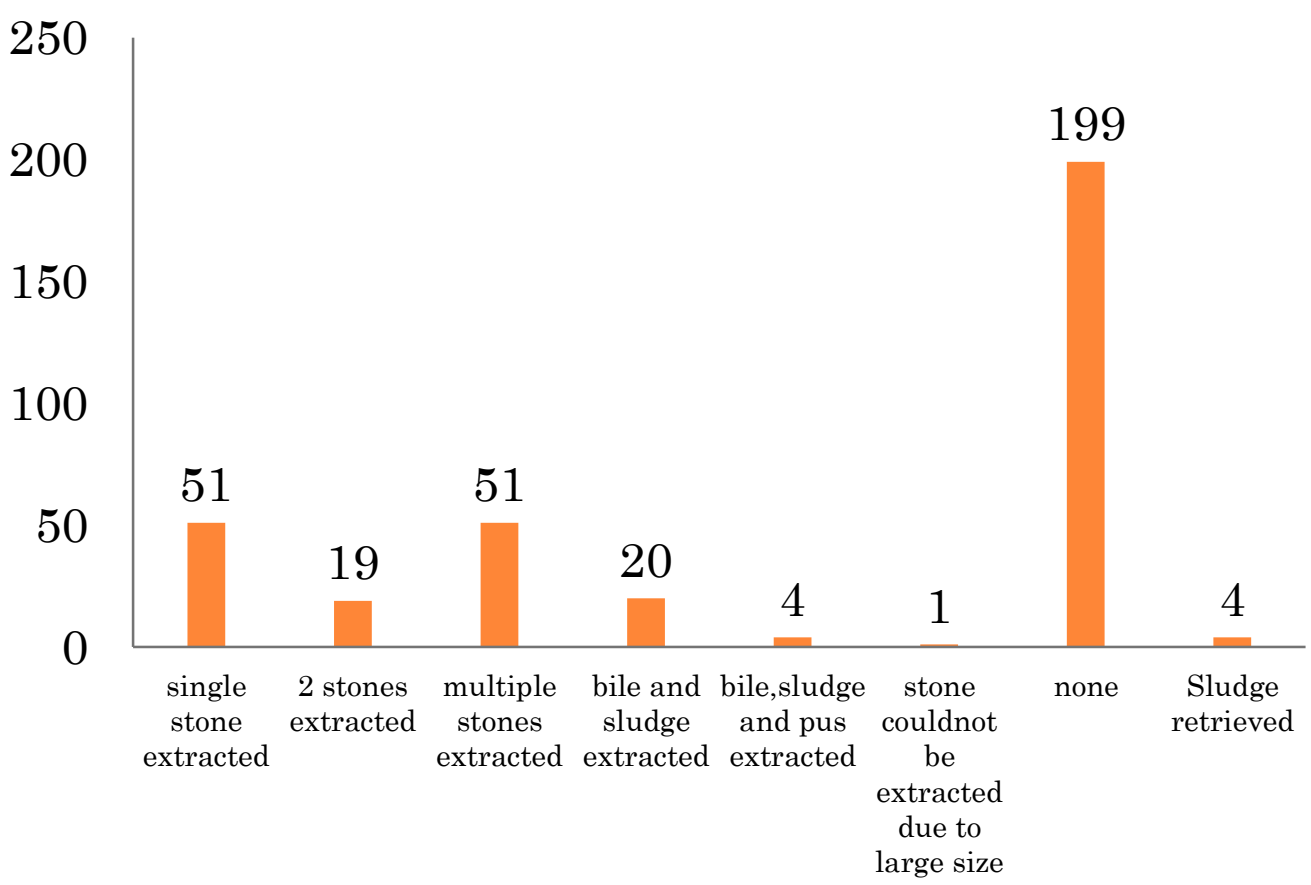
Balloon Dilation diameter



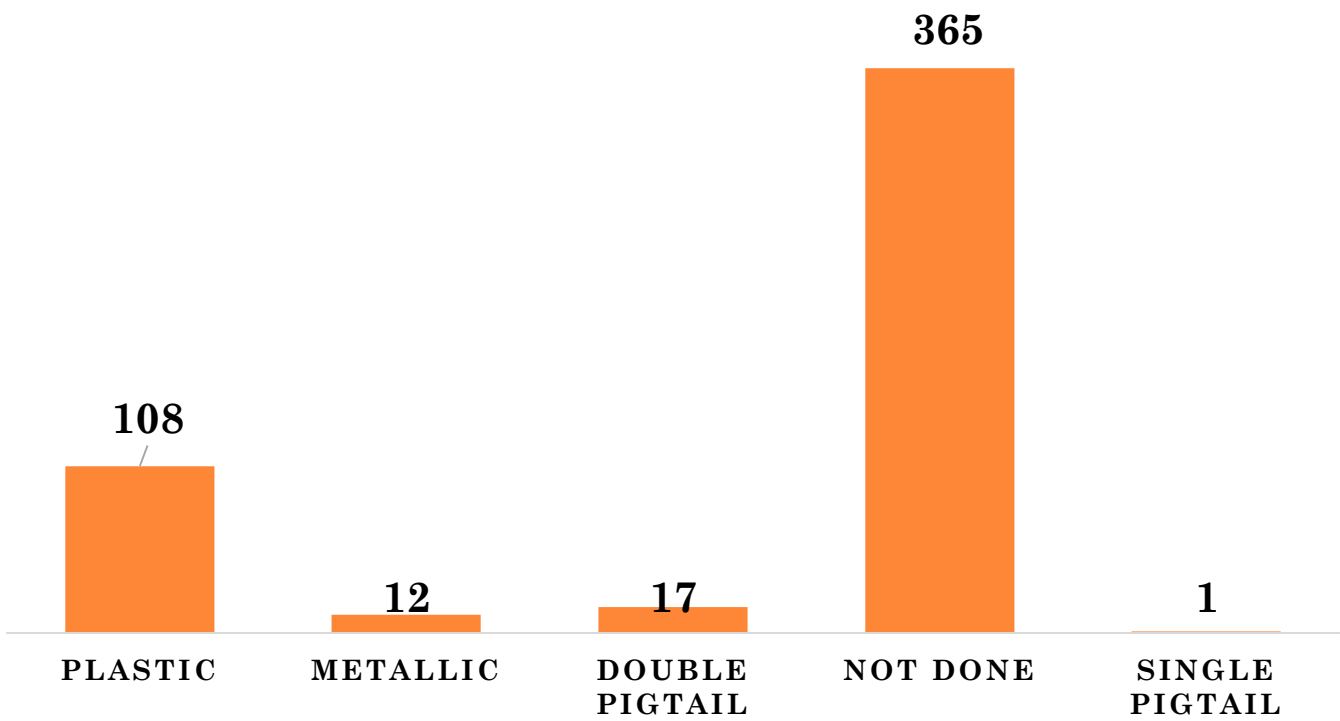
BALLOON SWEEP PERFORMED



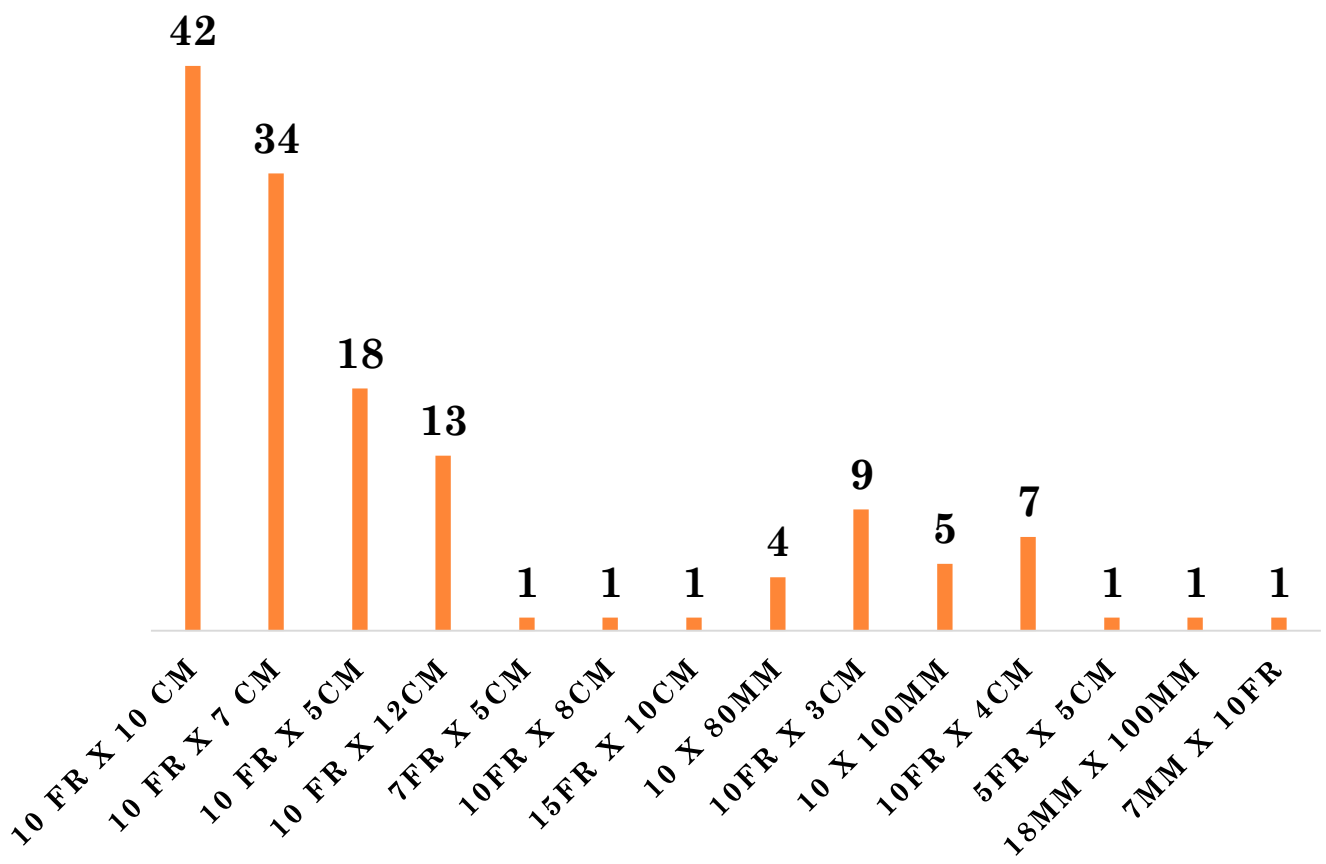
Stone or Sludge Extraction



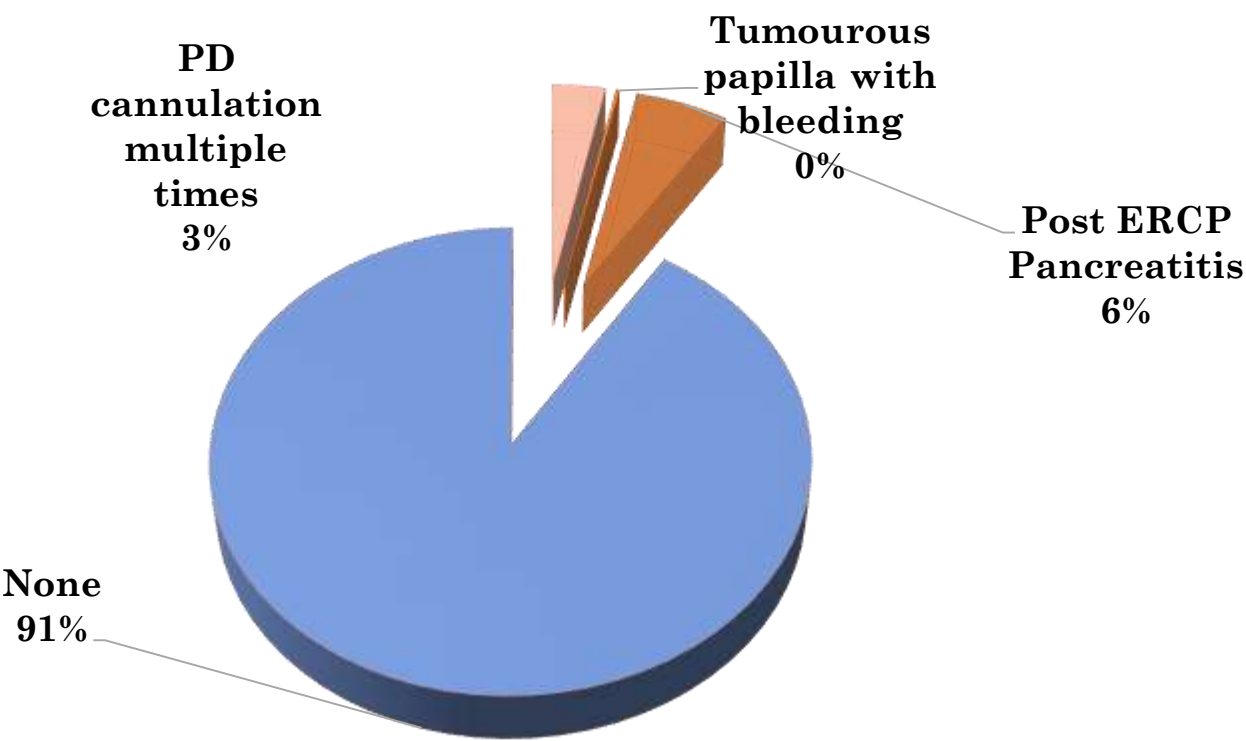
TYPE OF STENT



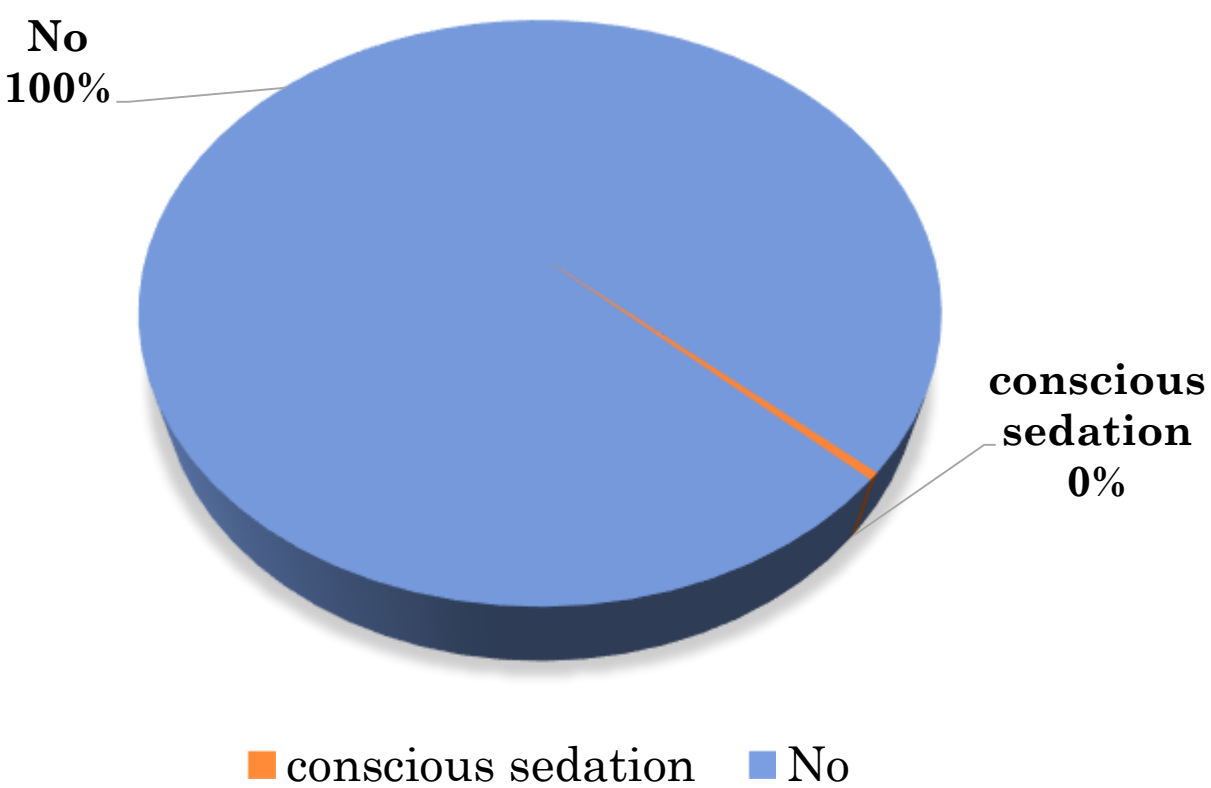
SIZE OF STENTS



COMPLICATION



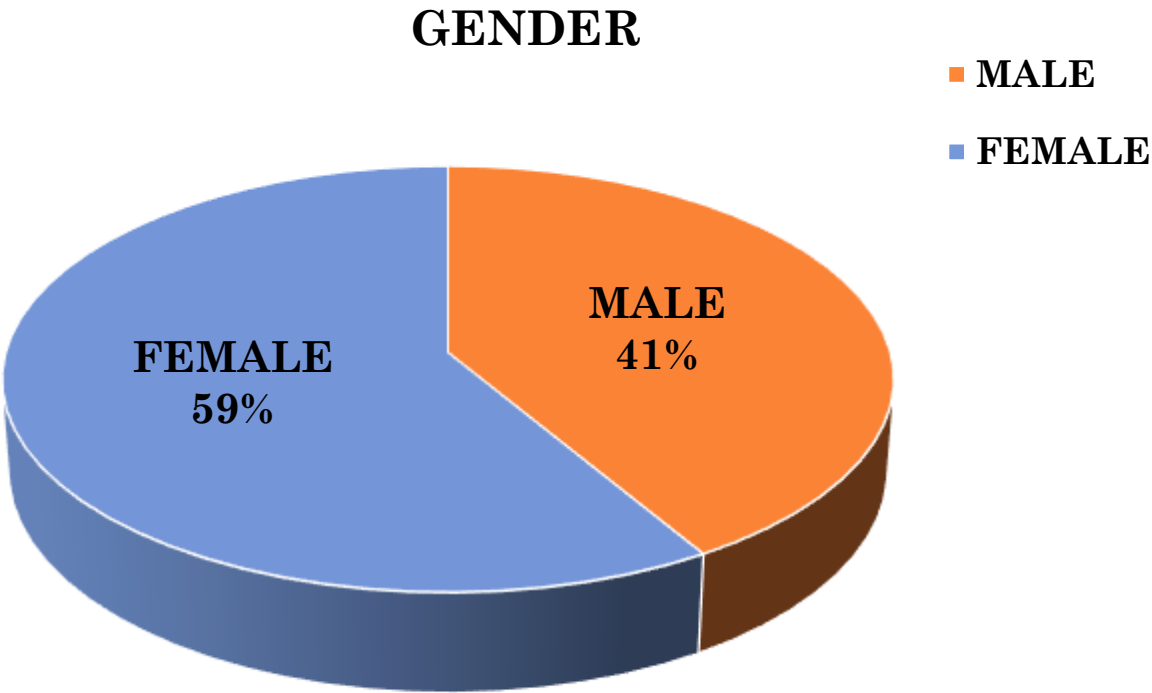
Sedation Type



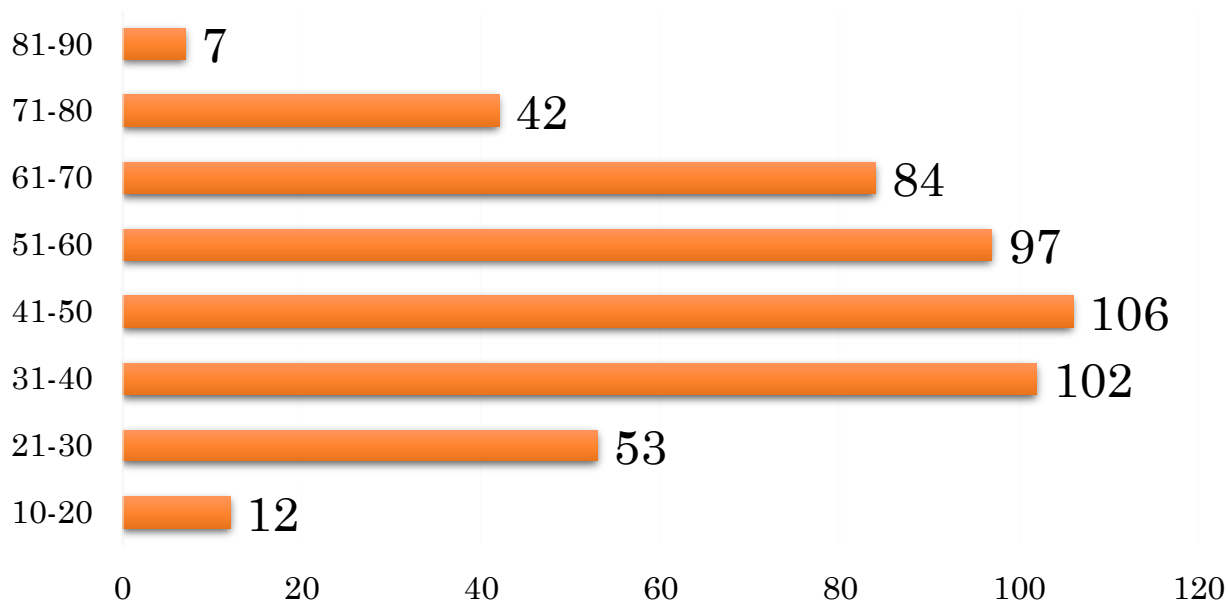
2021

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

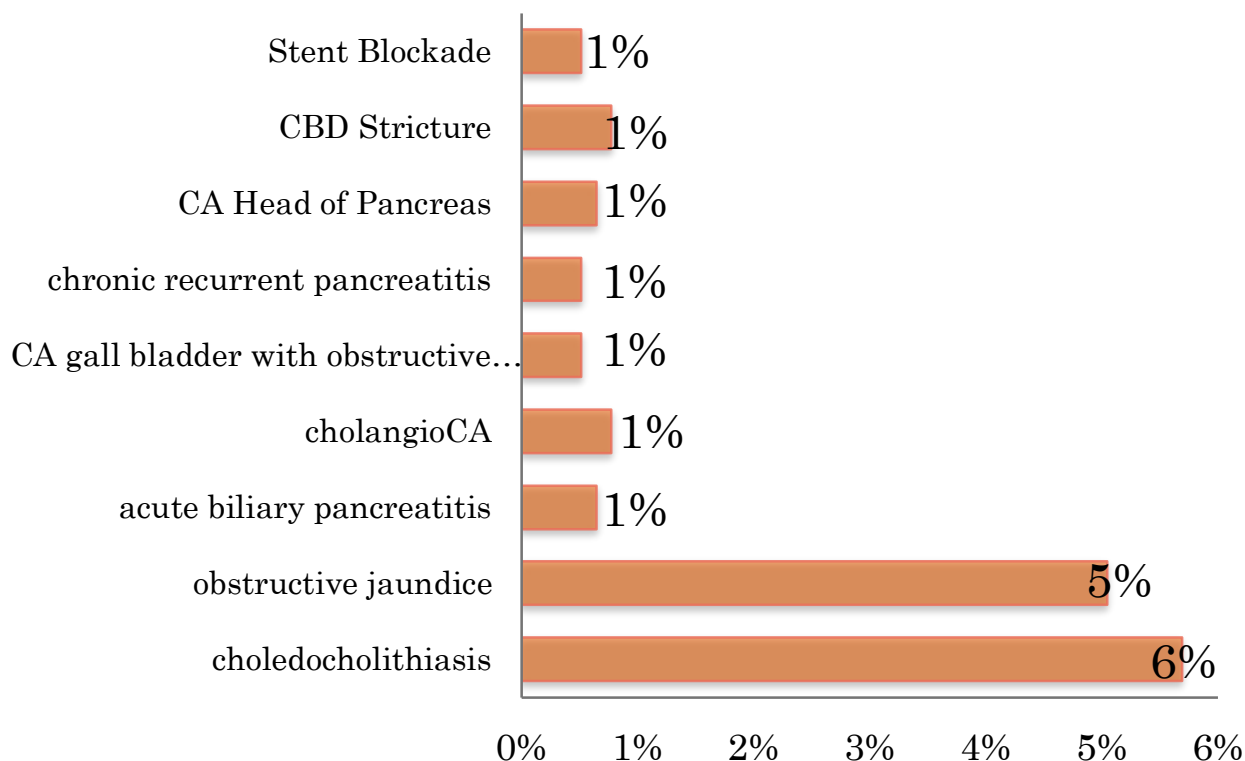
Total No of Patients	773
Male	320
Female	453



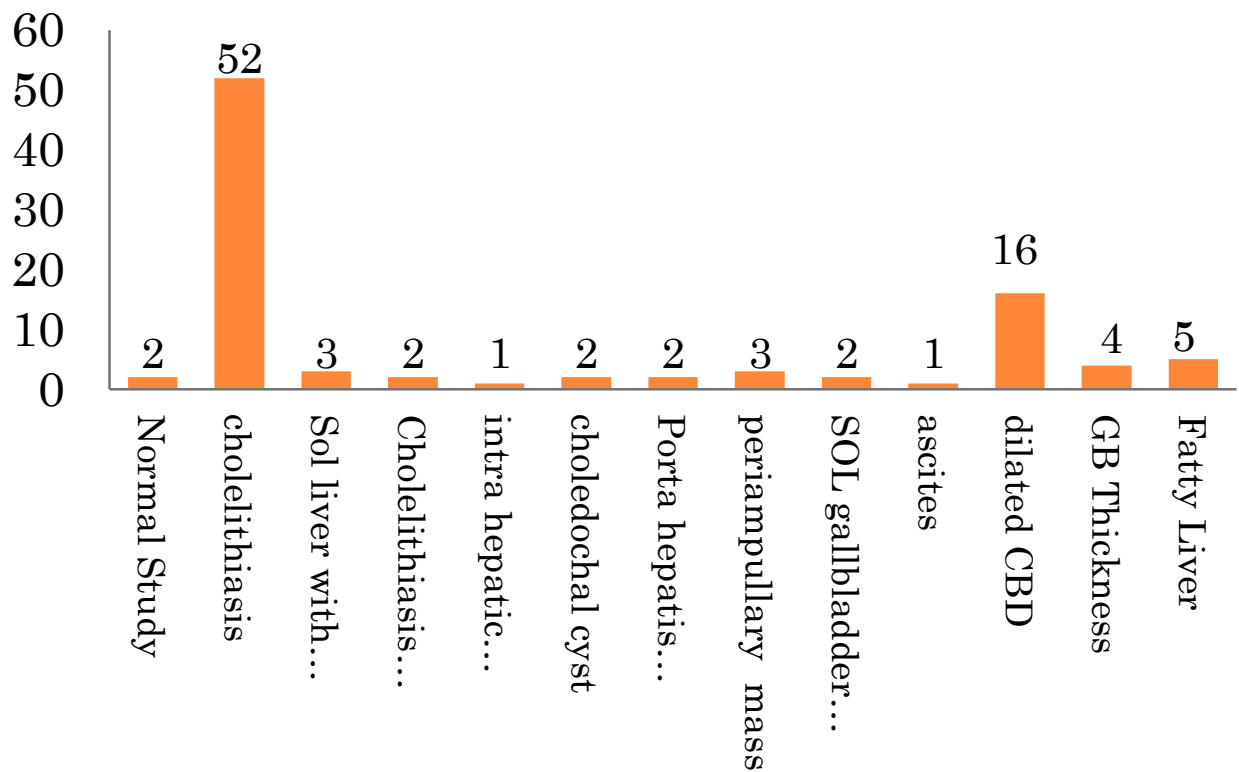
AGE WISE DISTRIBUTION



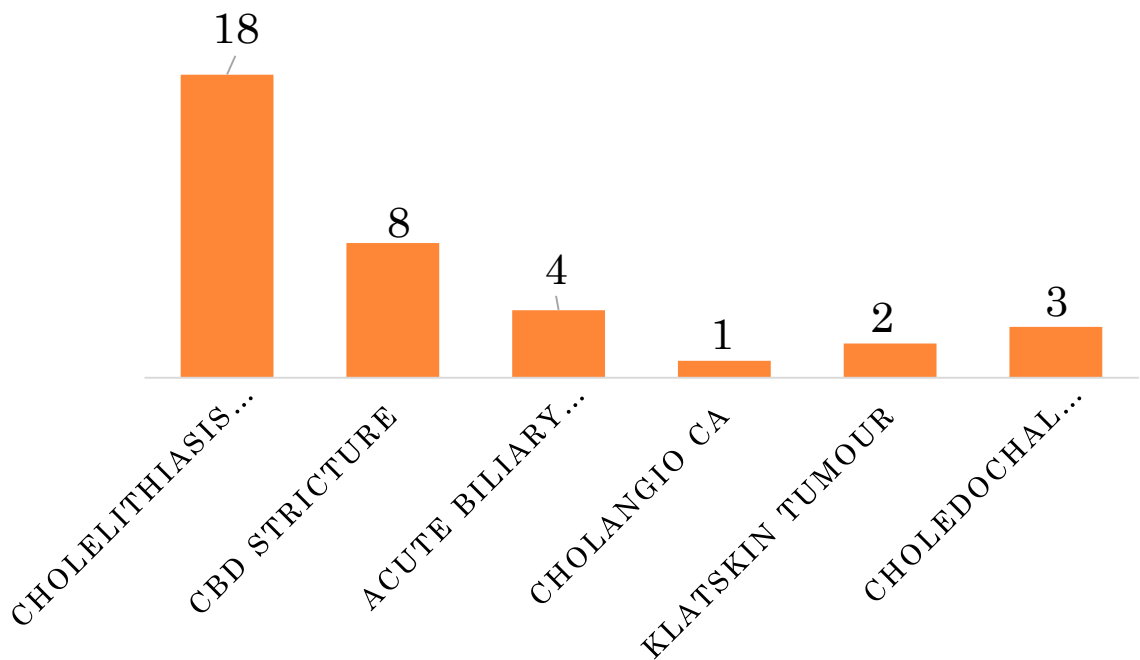
ERCP INDICATION



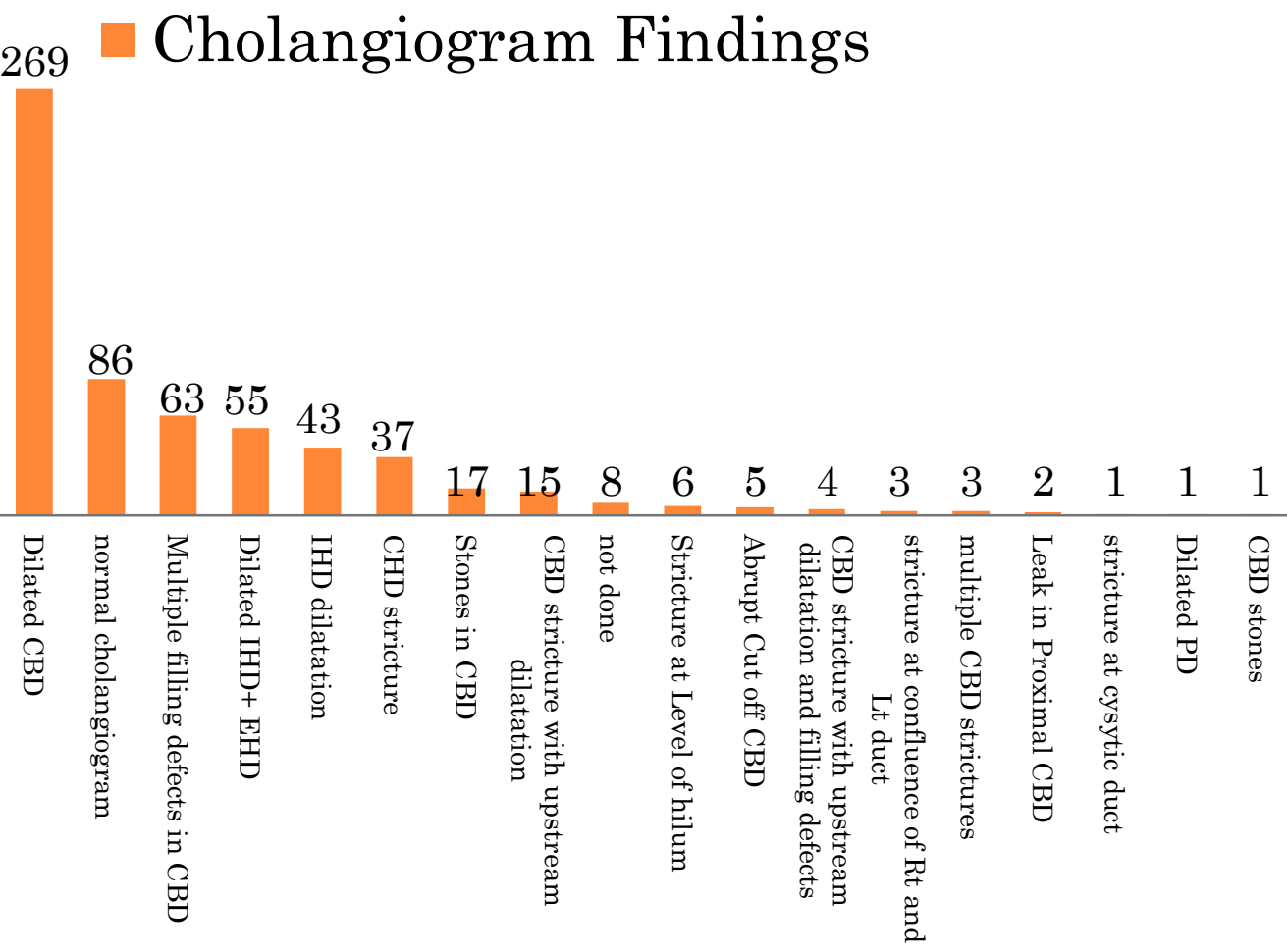
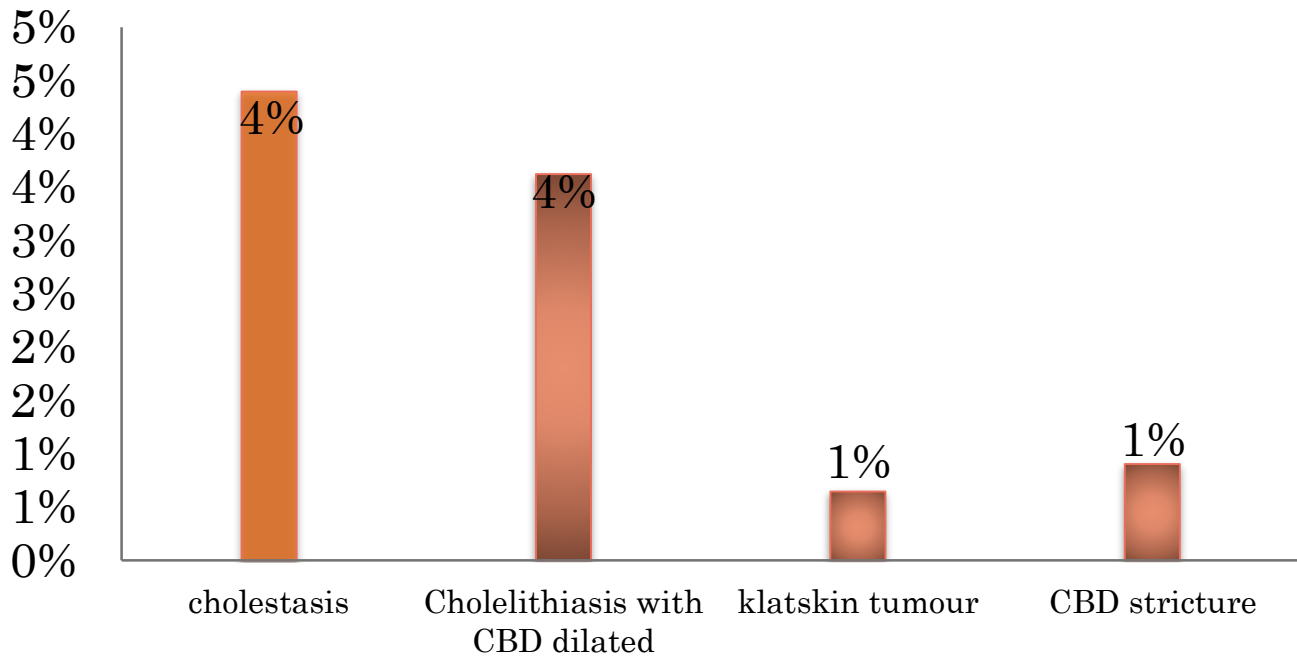
USG FINDINGS



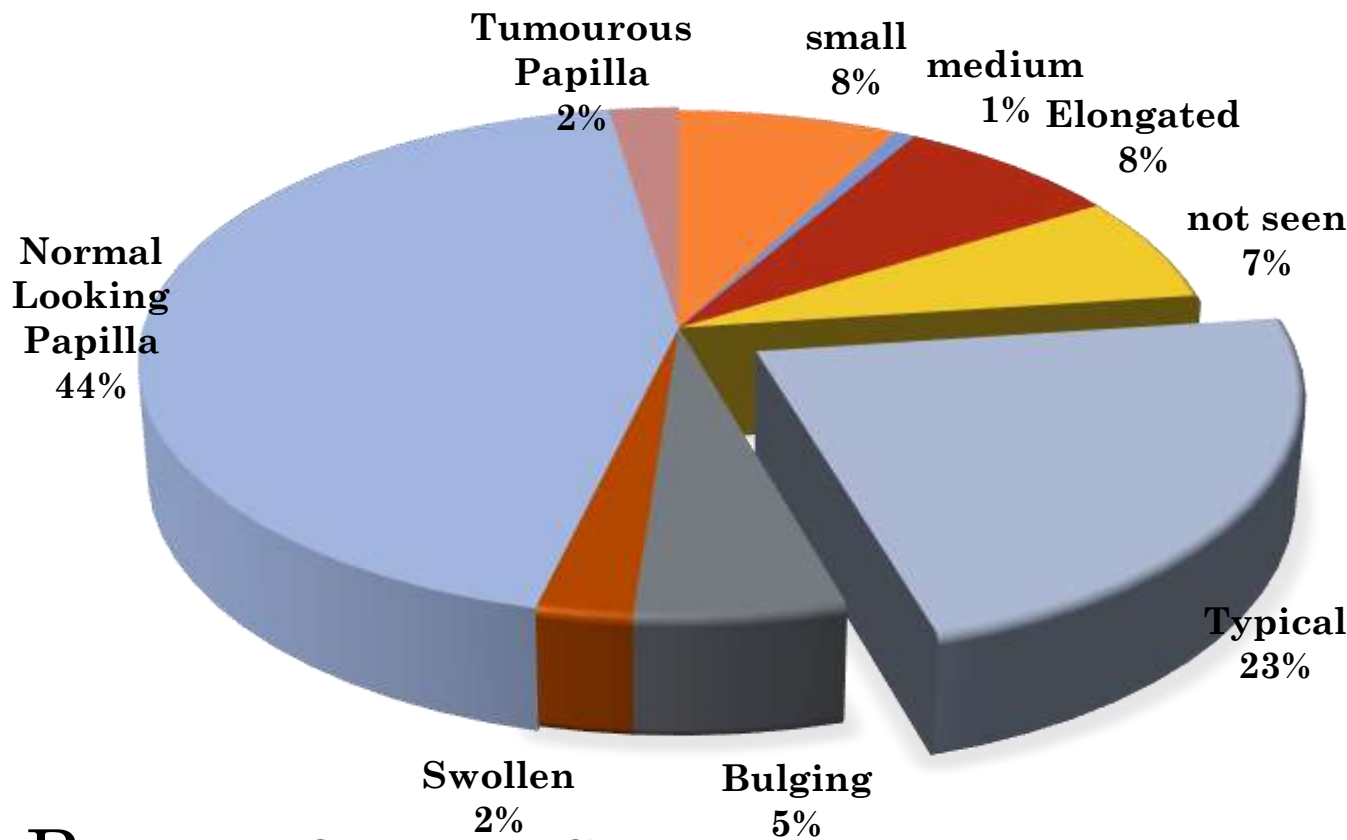
CT SCAN FINDINGS



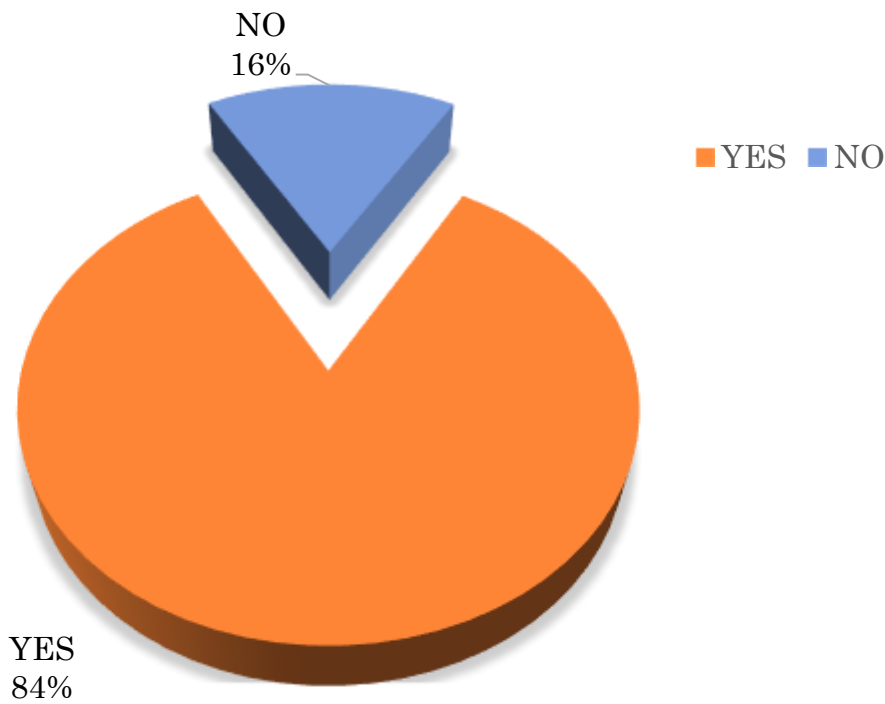
MRCP FINDINGS



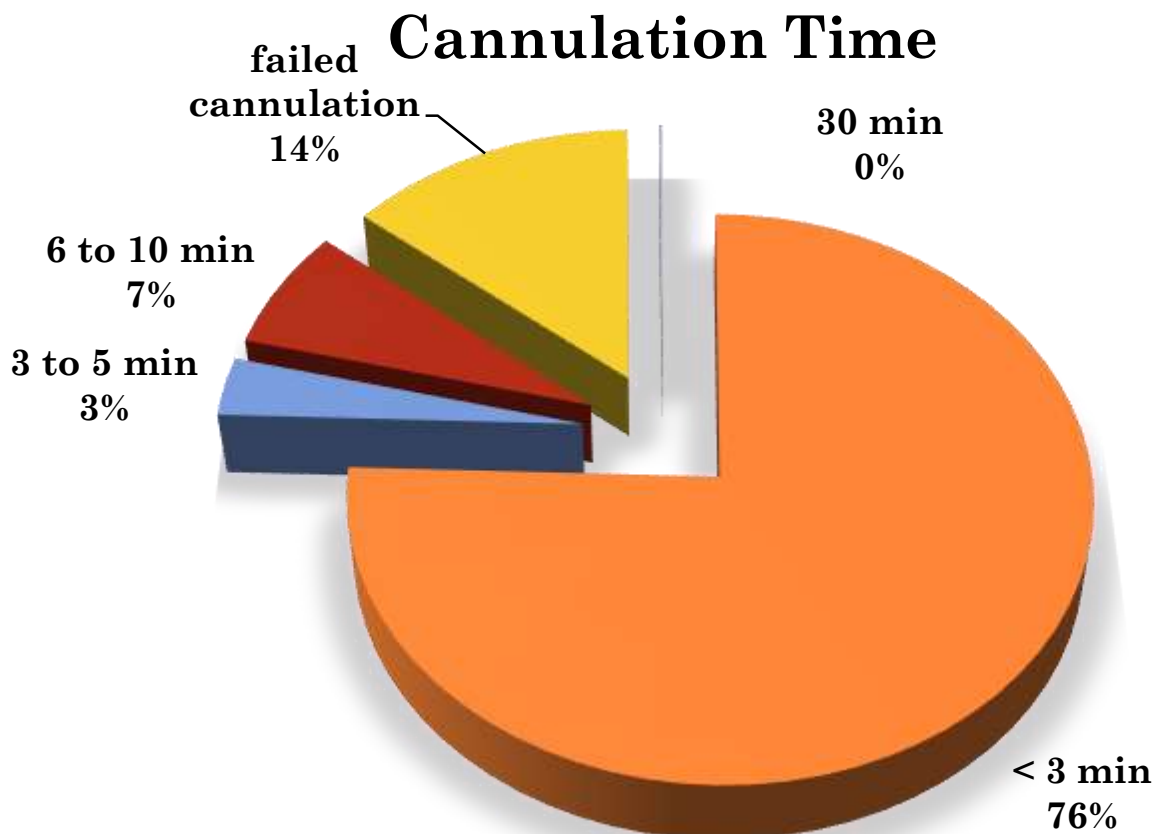
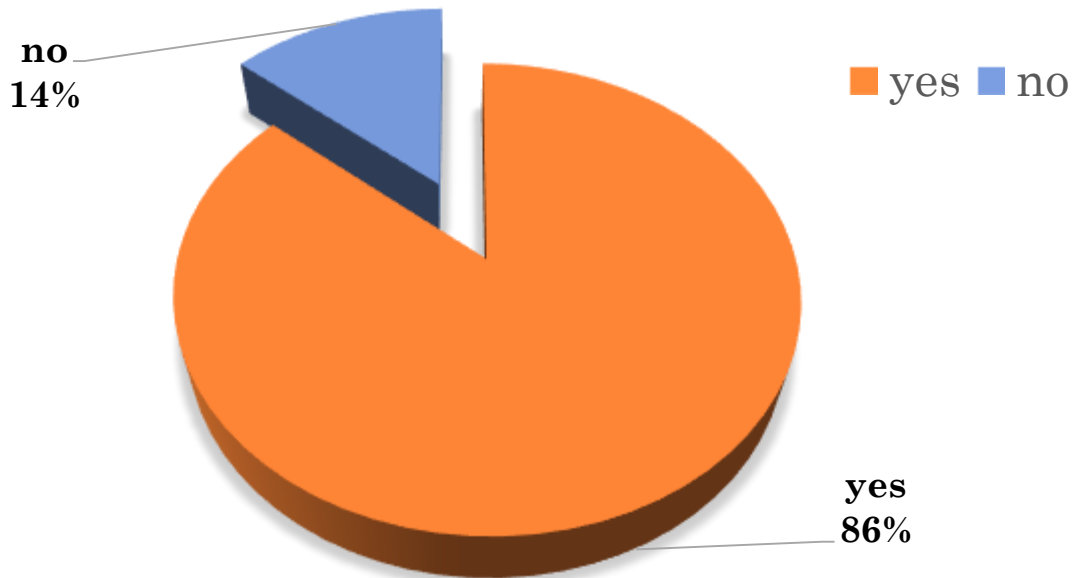
TYPE OF PAPILLA



BILE FLOW PRESENT

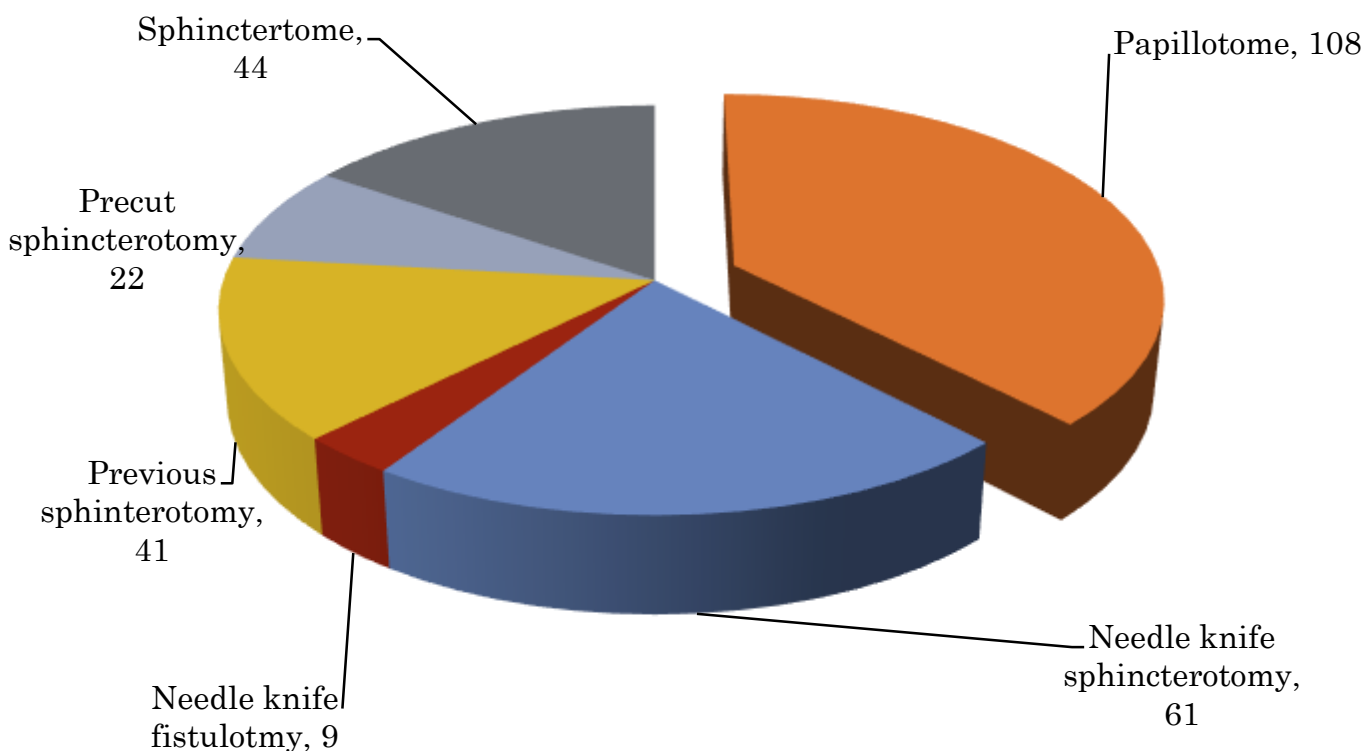
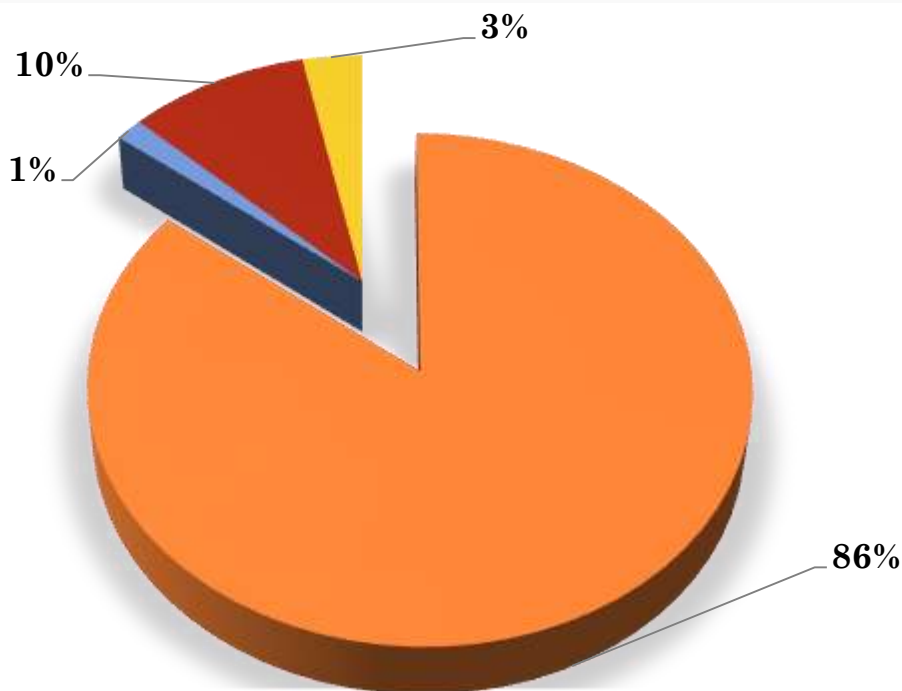


CANNULATION SUCCESSFUL

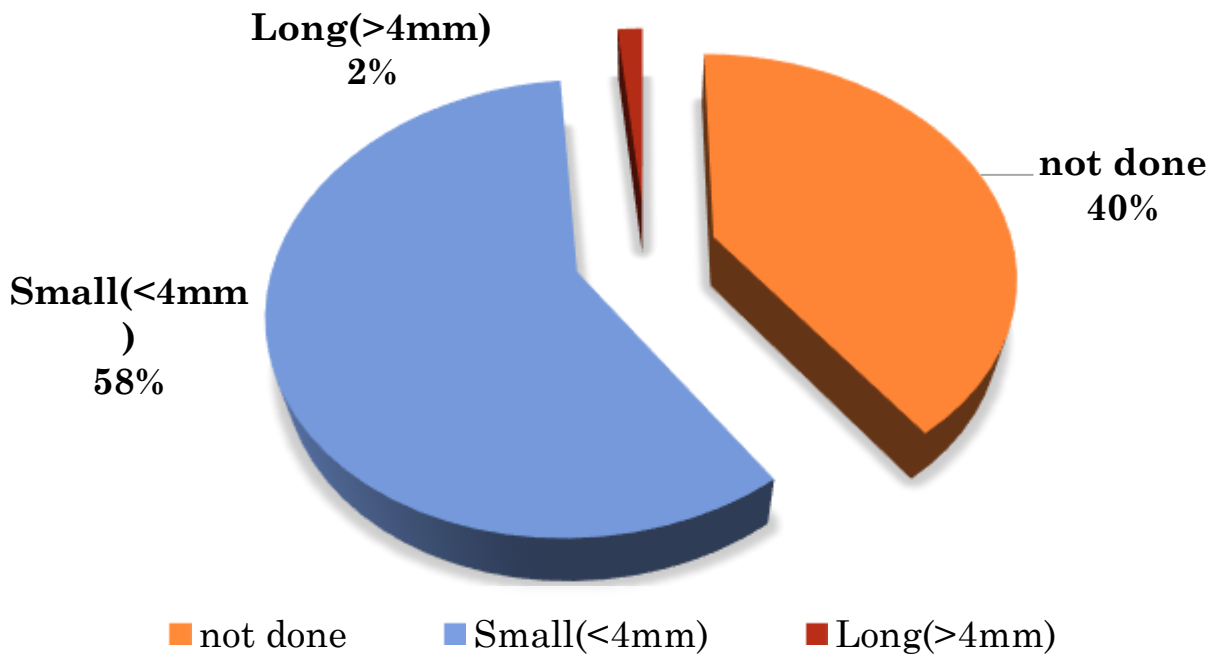


DIFFICULT CANNULATION

Easy Medium Difficult Failed

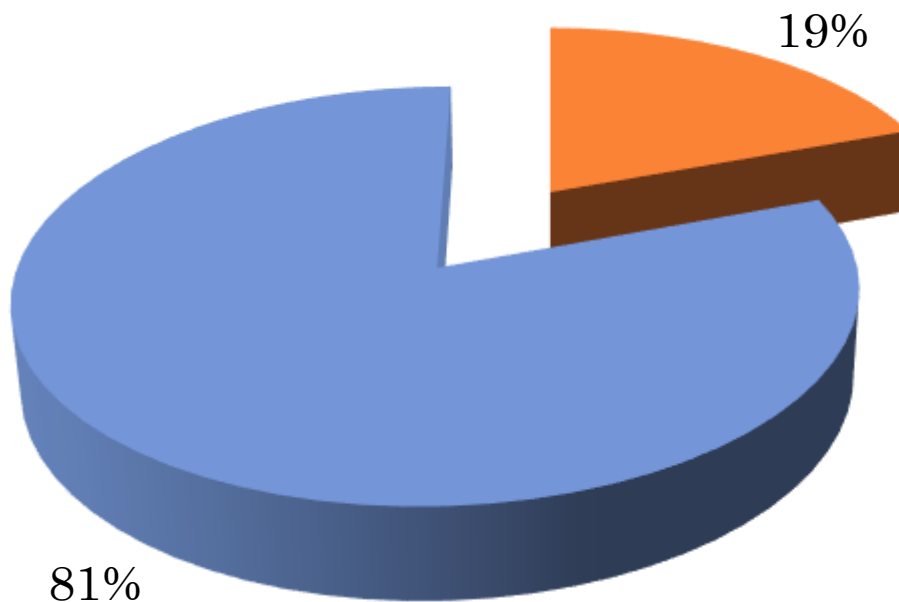


SPHINCTEROTOMY

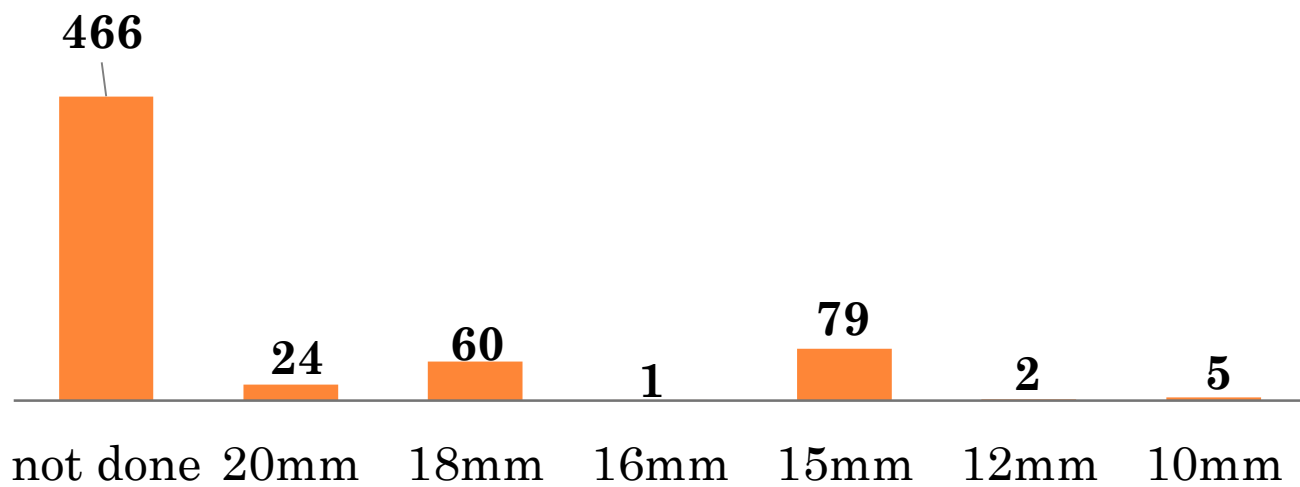


Sphincteroplasty

Done Not Done



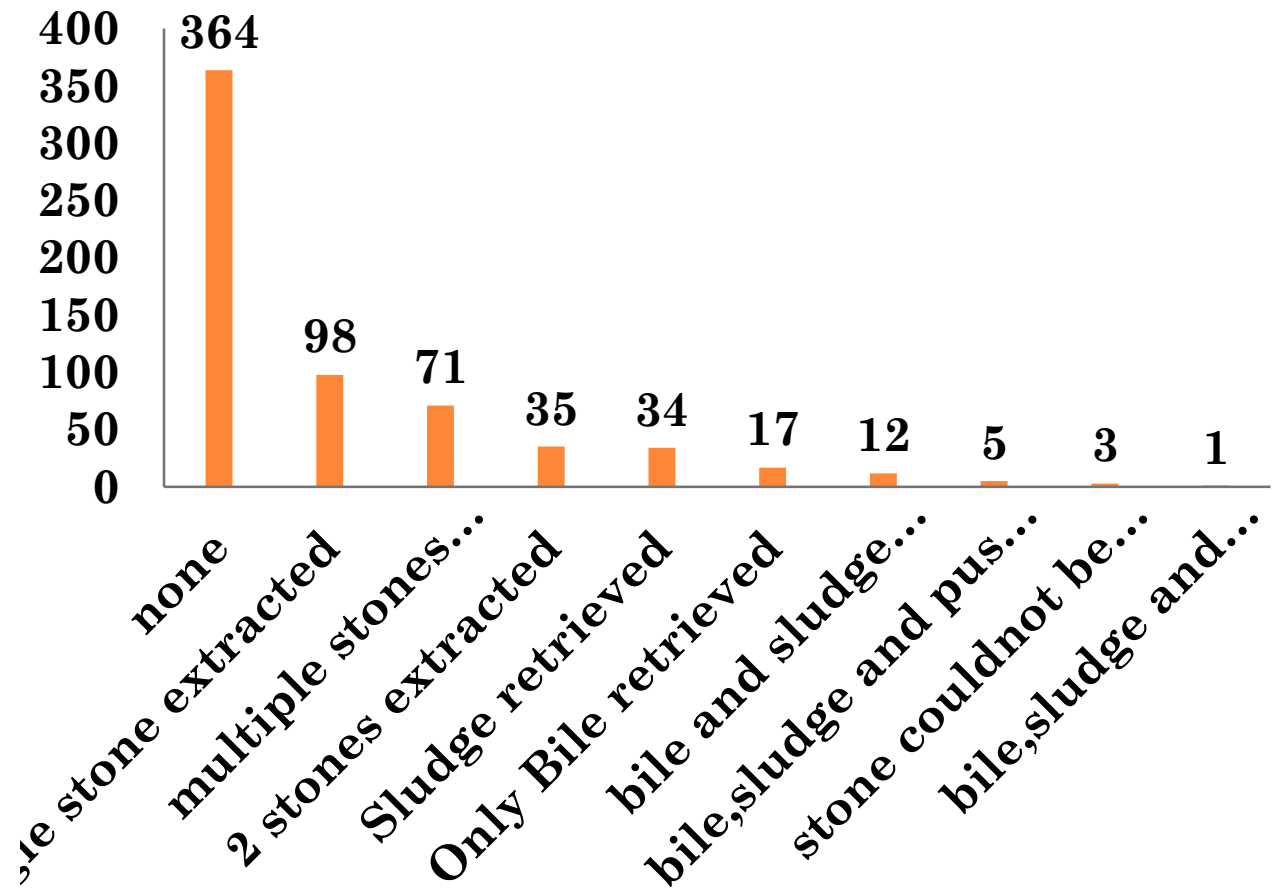
BALLOON DILATION DIAMETER



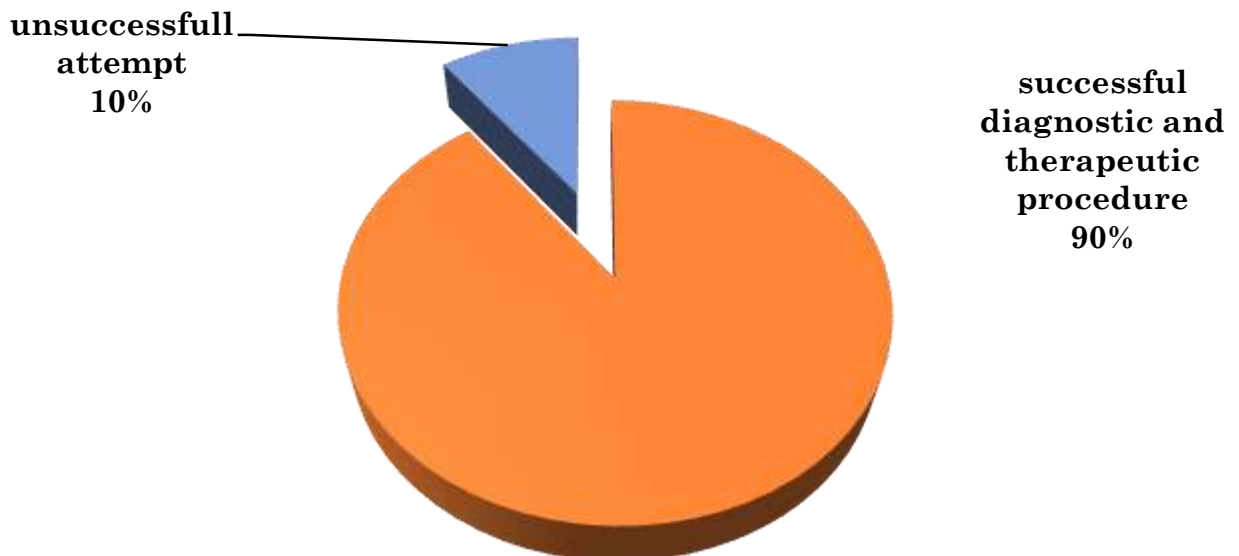
Balloon Sweep Performed



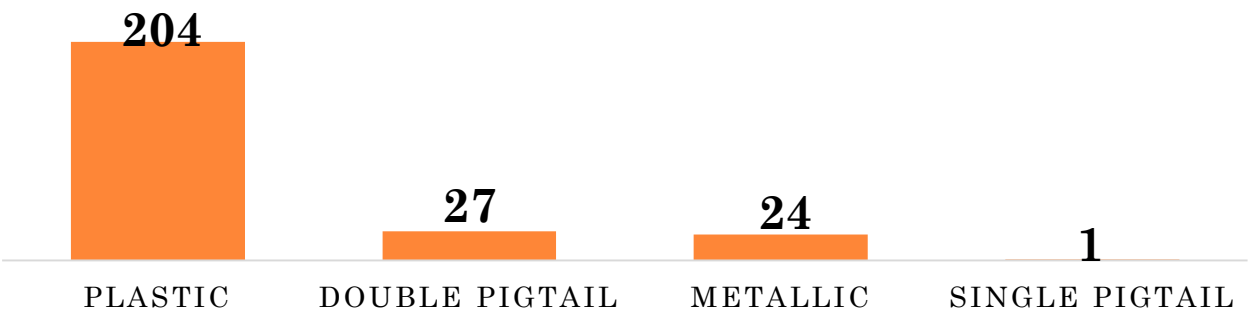
STONE AND SLUDGE EXTRACTION



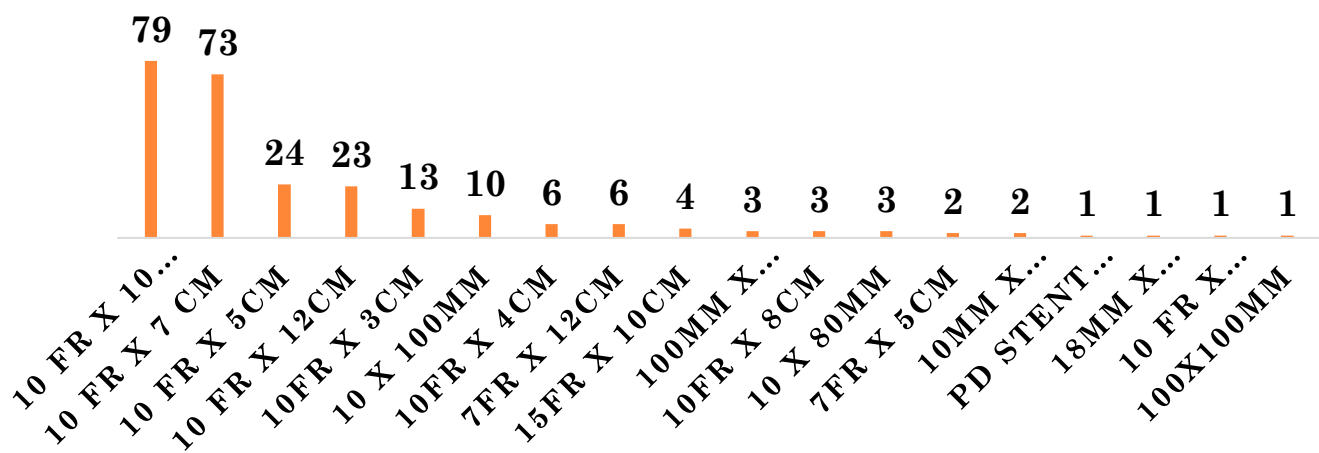
Procedure Successful Rate



STENT PLACED



SIZE OF STENTS



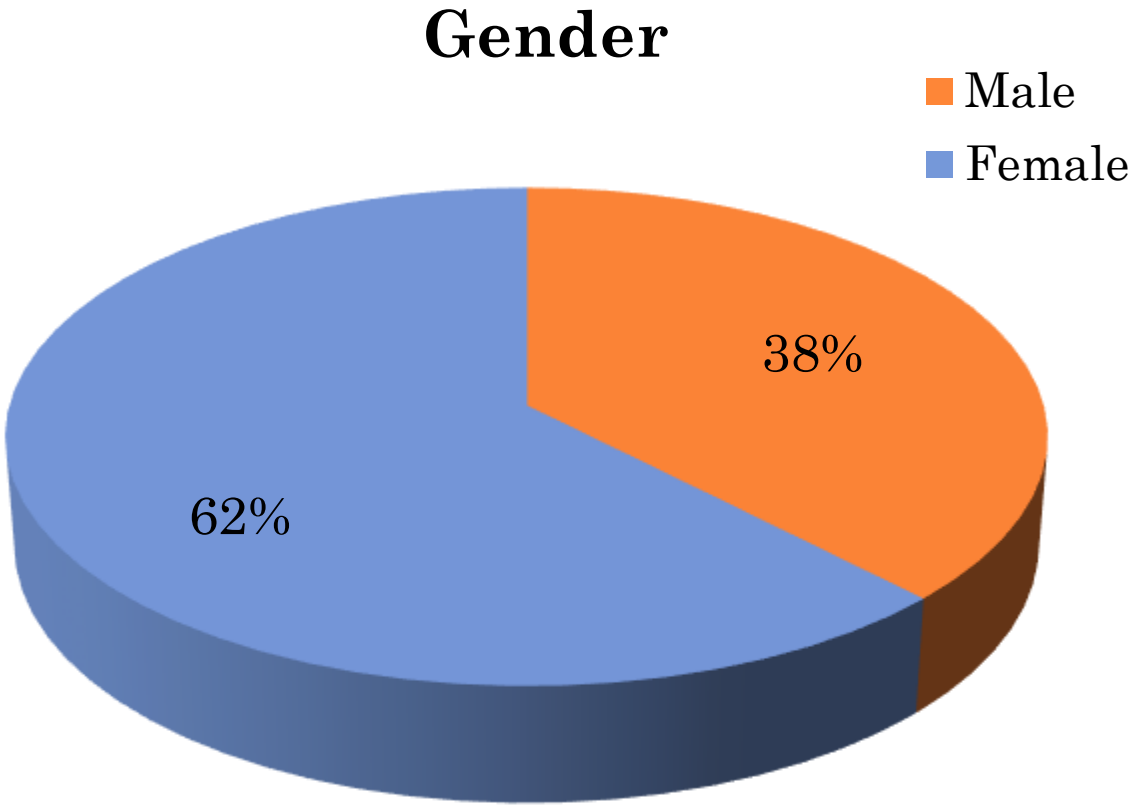
PROCEDURE SUCCESSFUL RATE



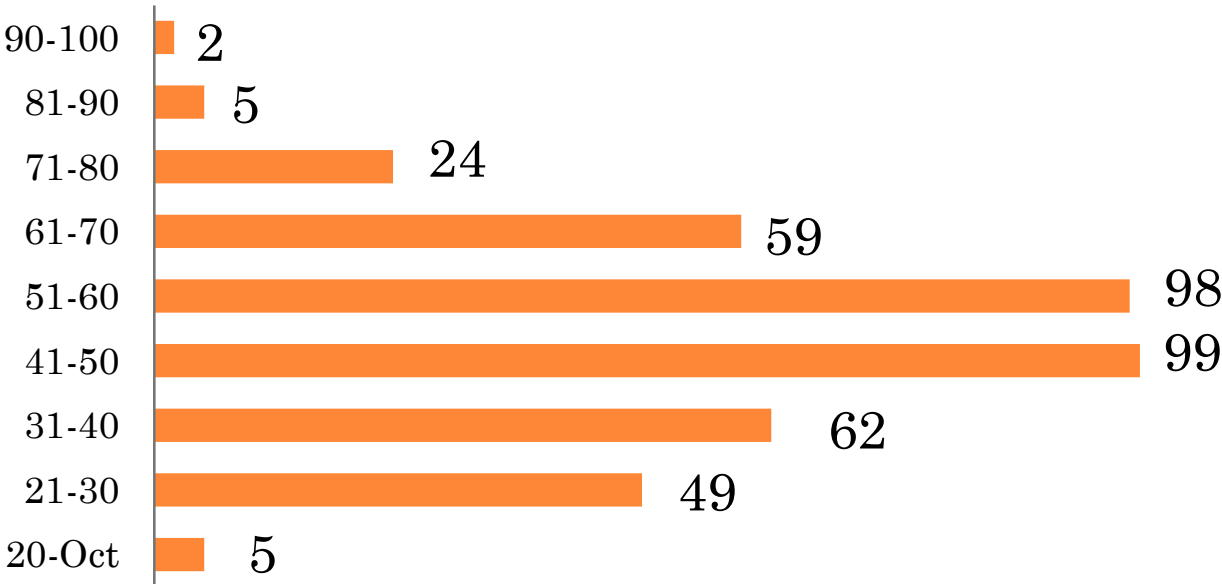
2022

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION.

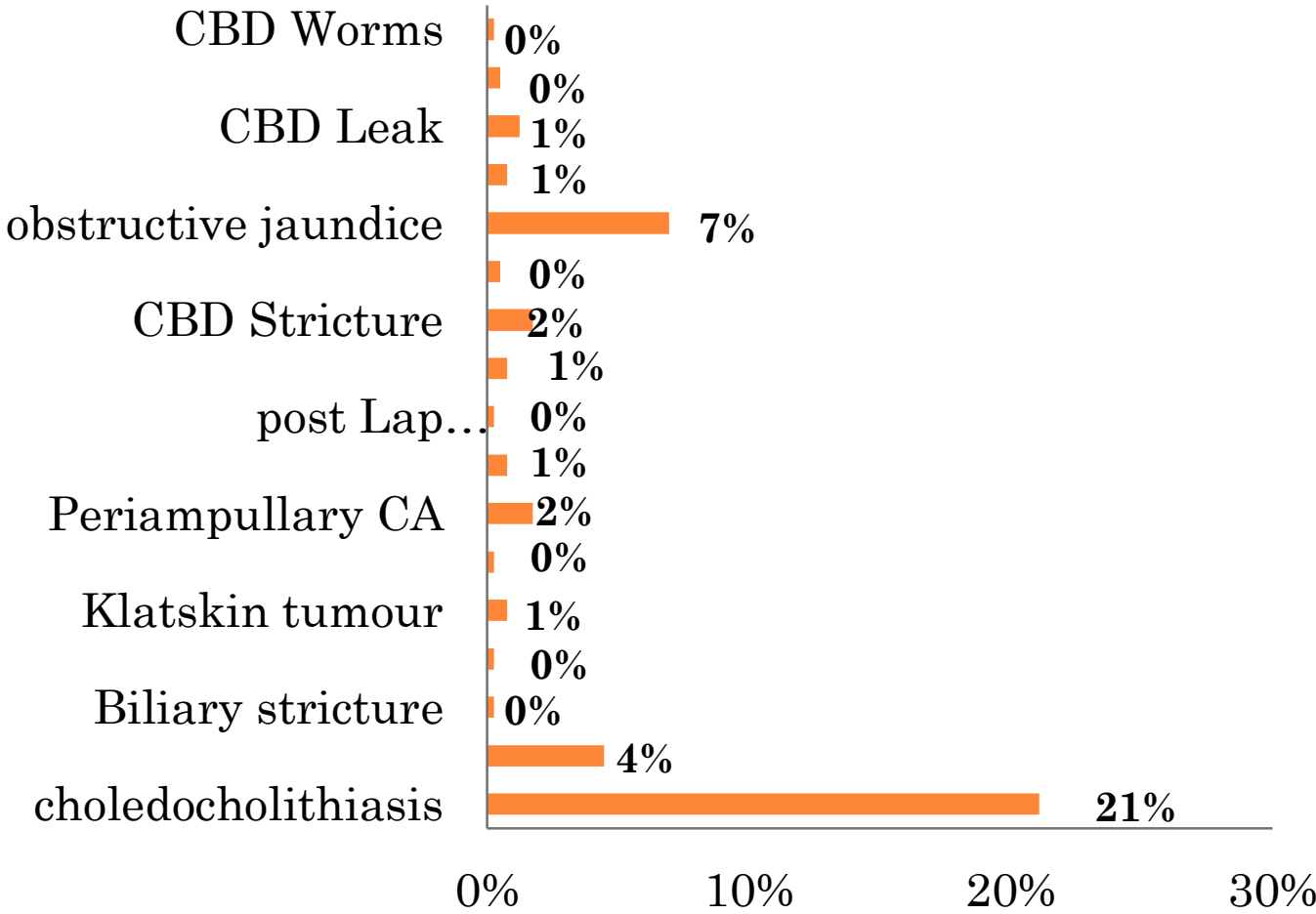
Total No of Patients	403
Male	152
Female	251



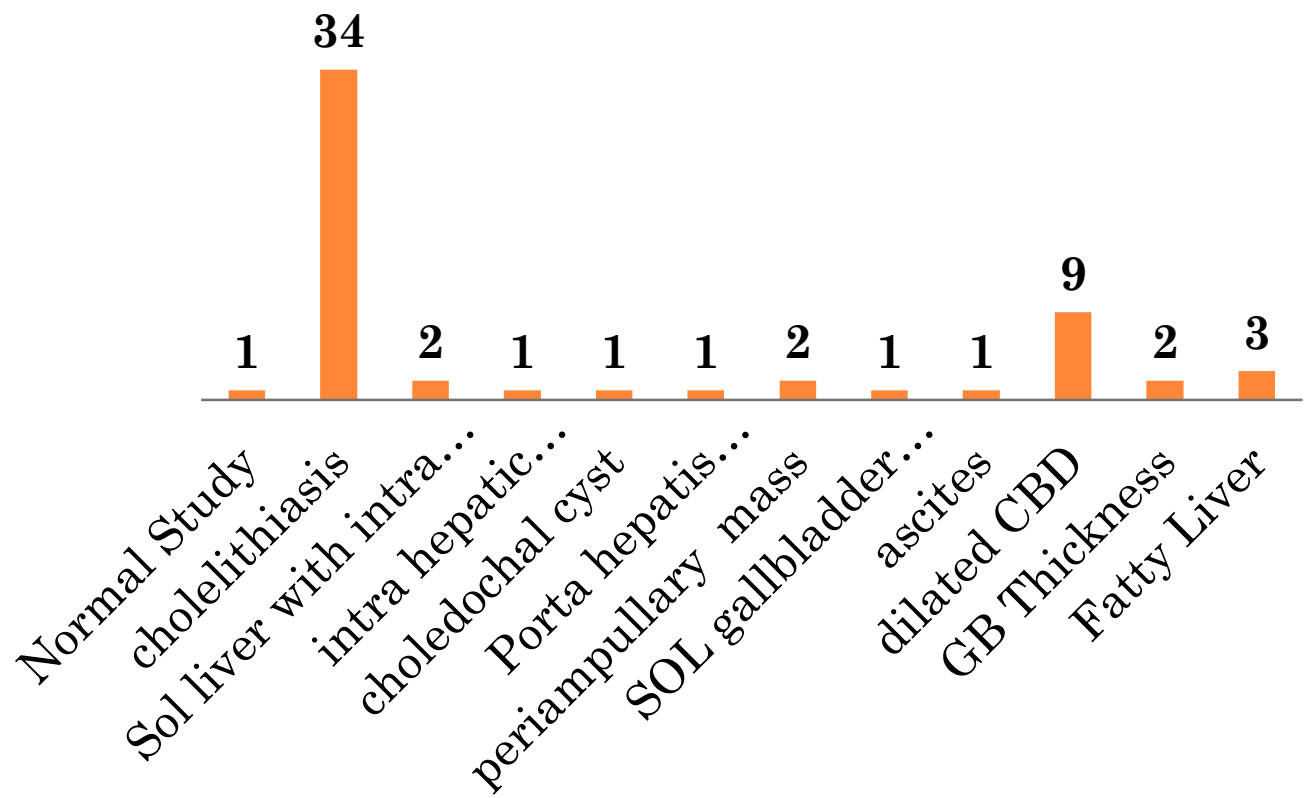
AGE WISE DISTRIBUTION



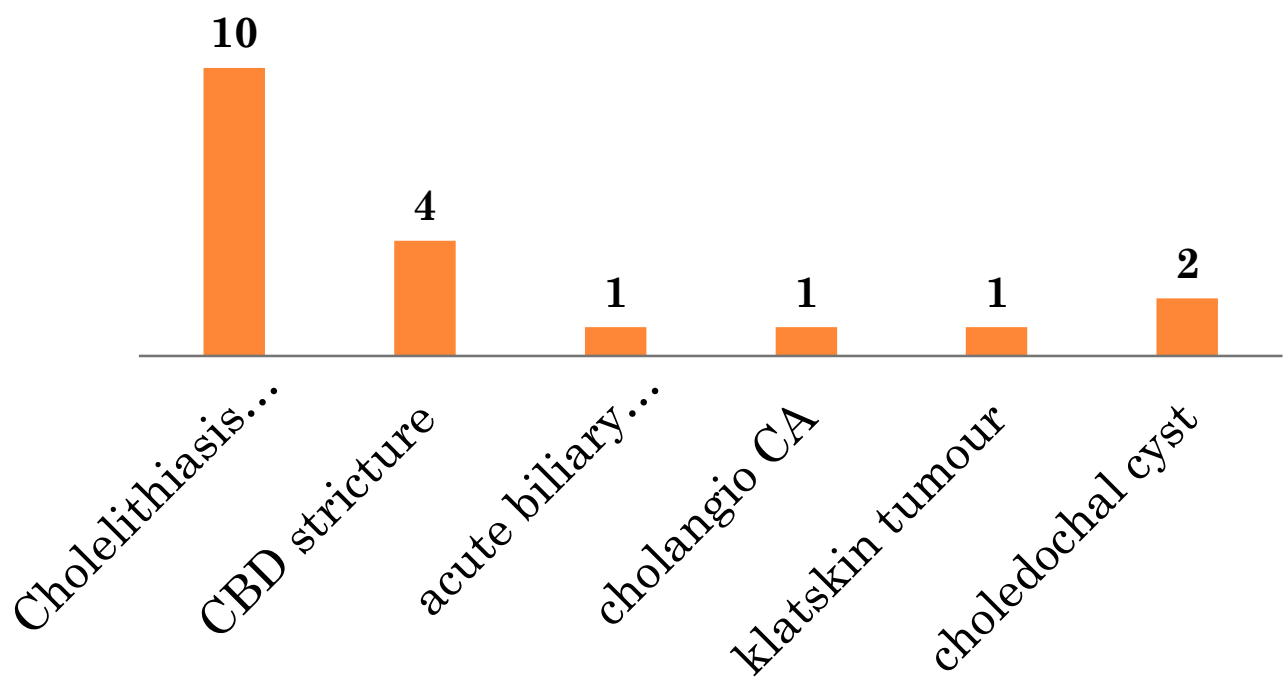
ERCP INDICATION



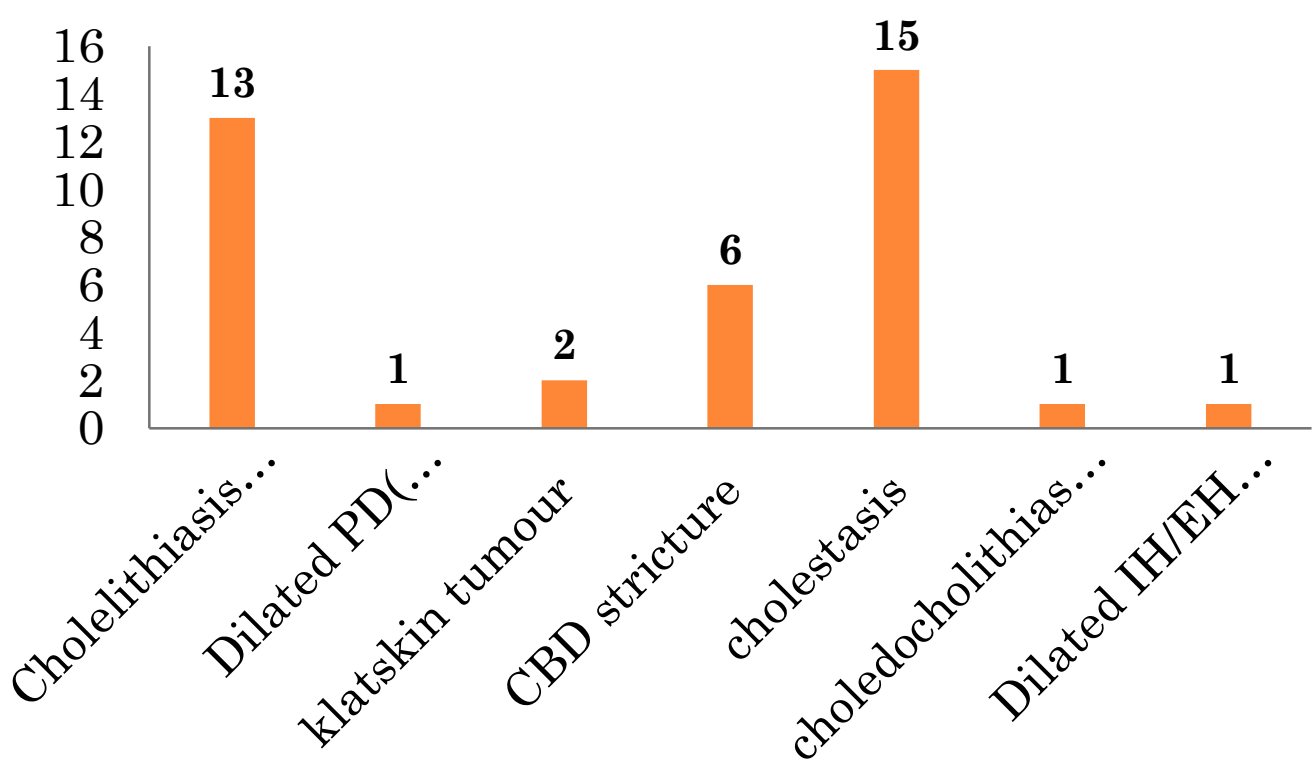
USG AND CT SCAN FINDINGS



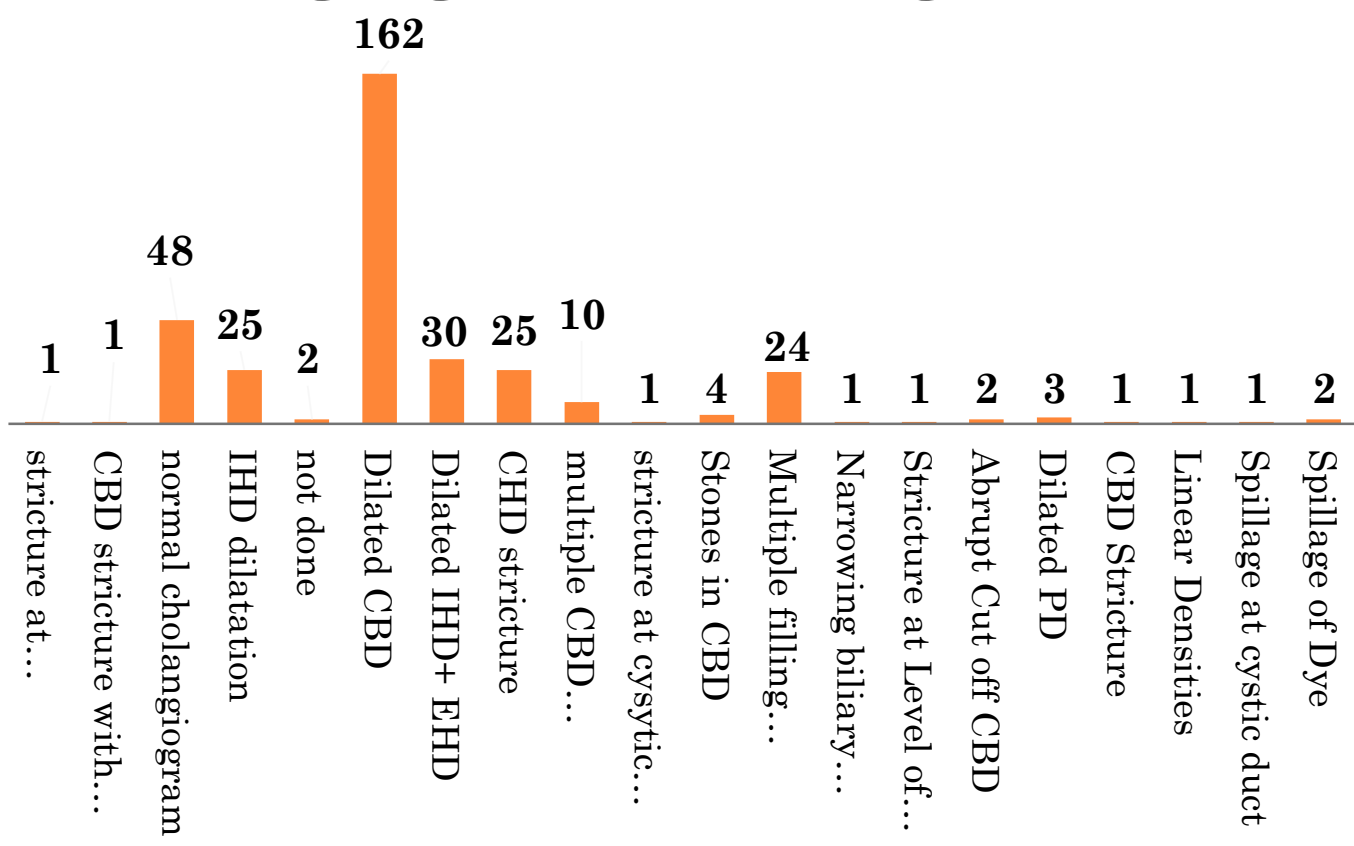
CT Scan



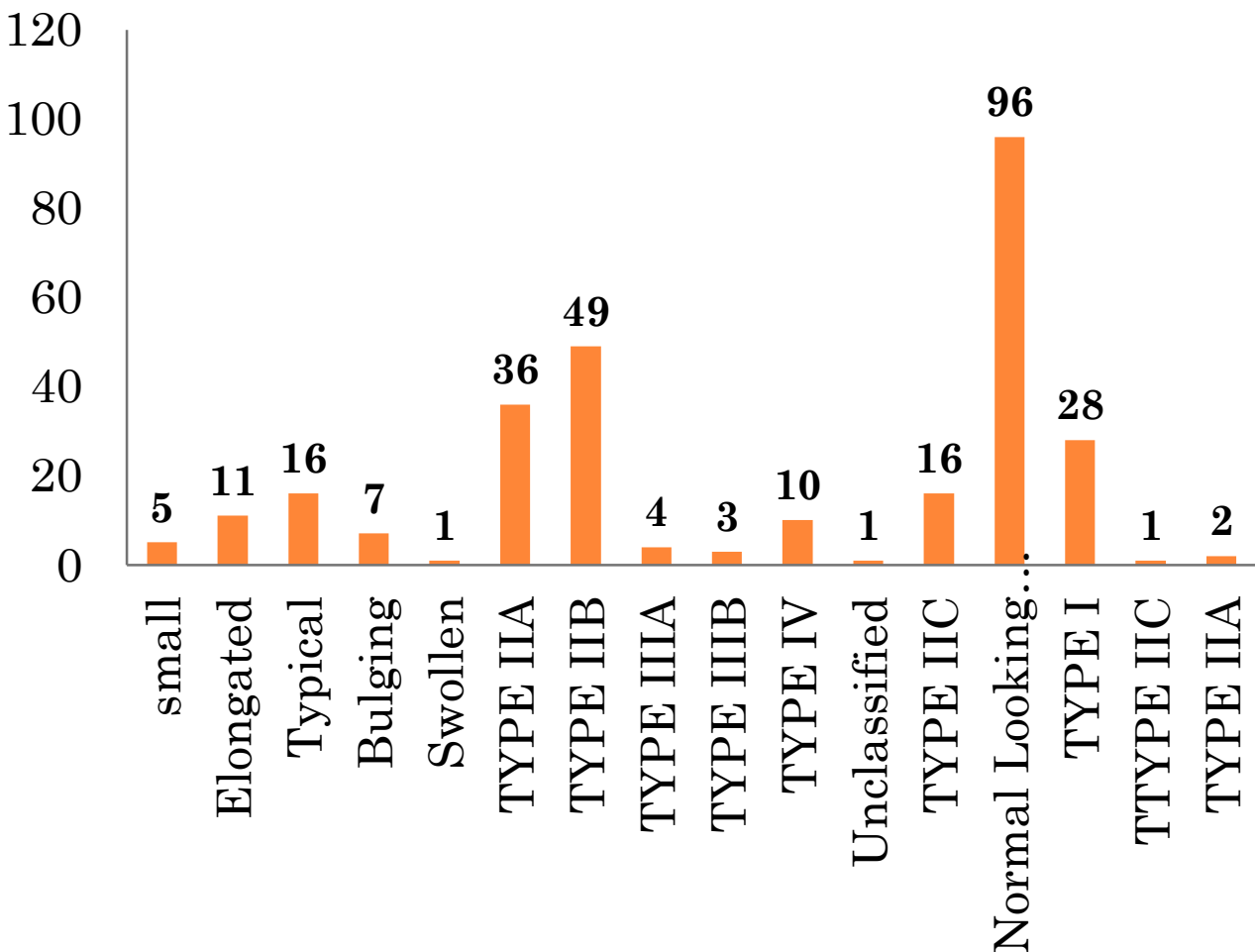
MRCP FINDINGS



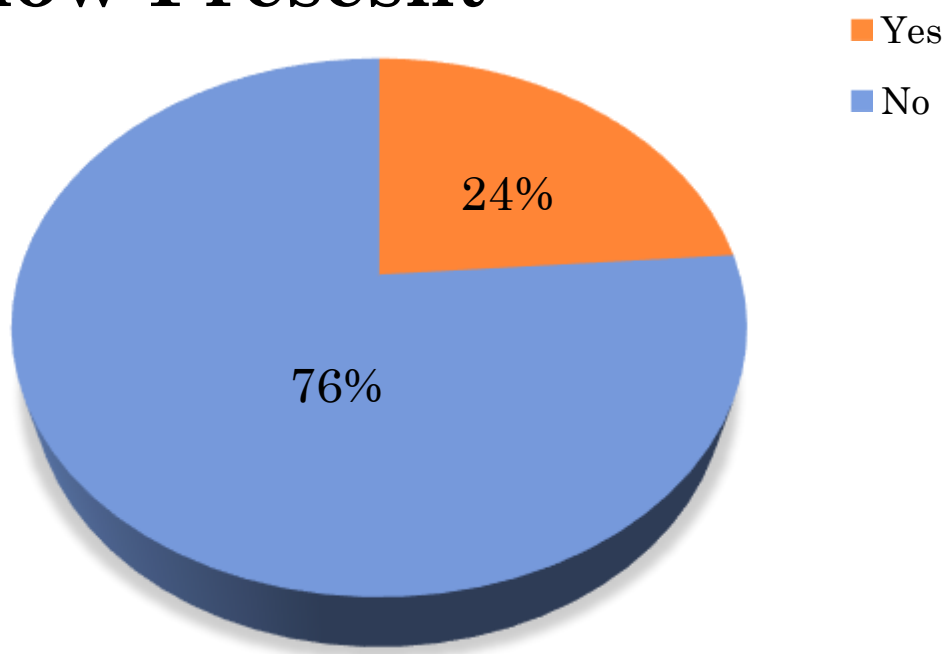
Cholangiogram Findings



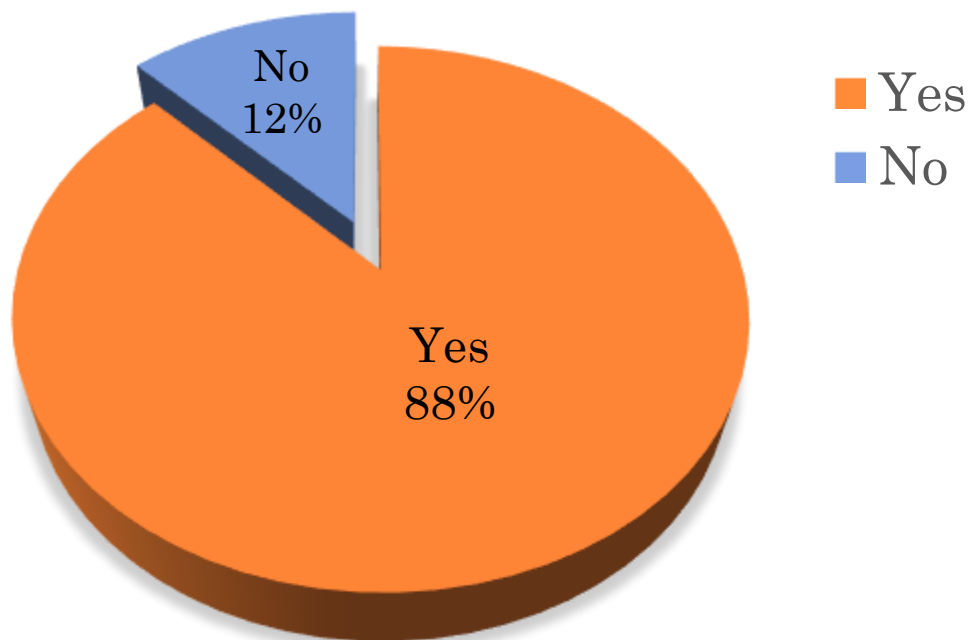
Type of Papilla



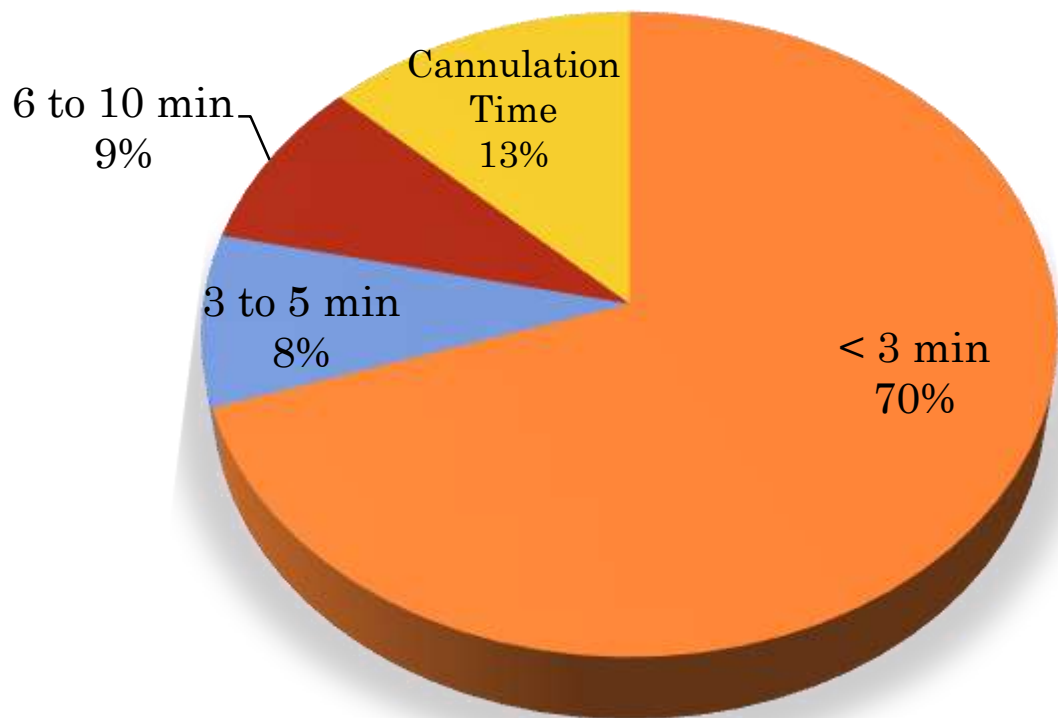
Bile Flow Presesnt



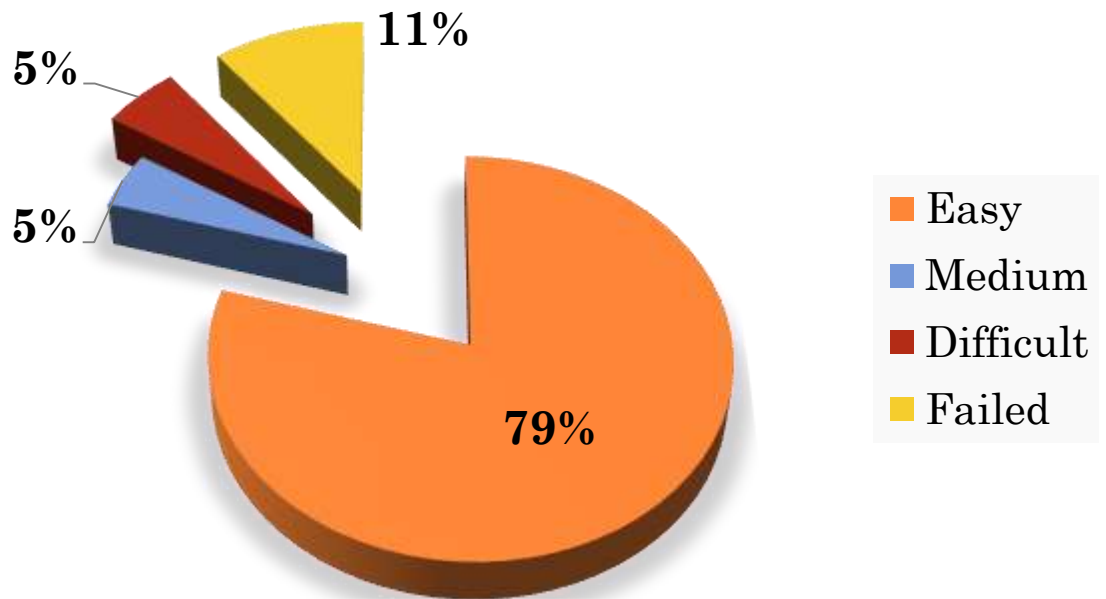
CANNULATION SUCCESSFUL



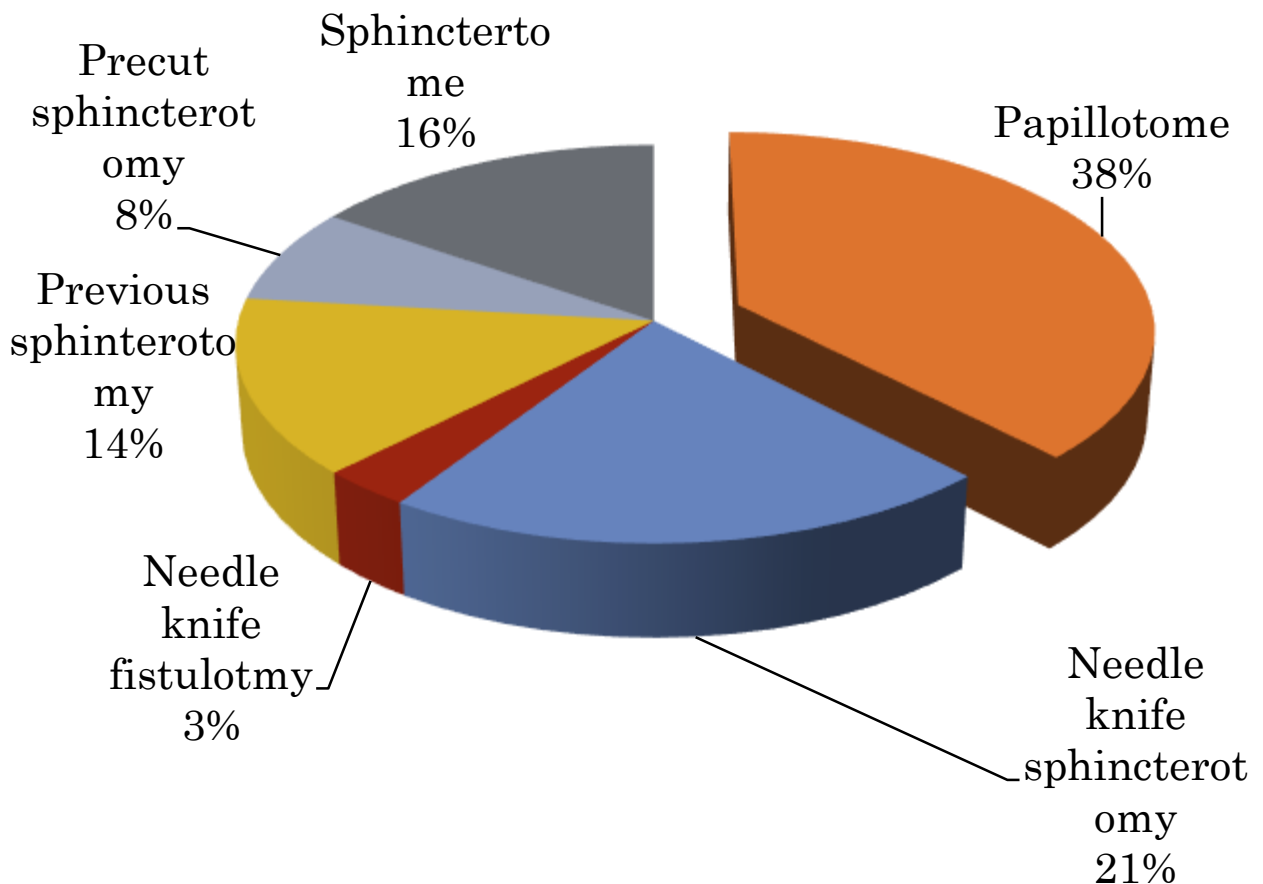
CANNULATION TIME IN MINUTES



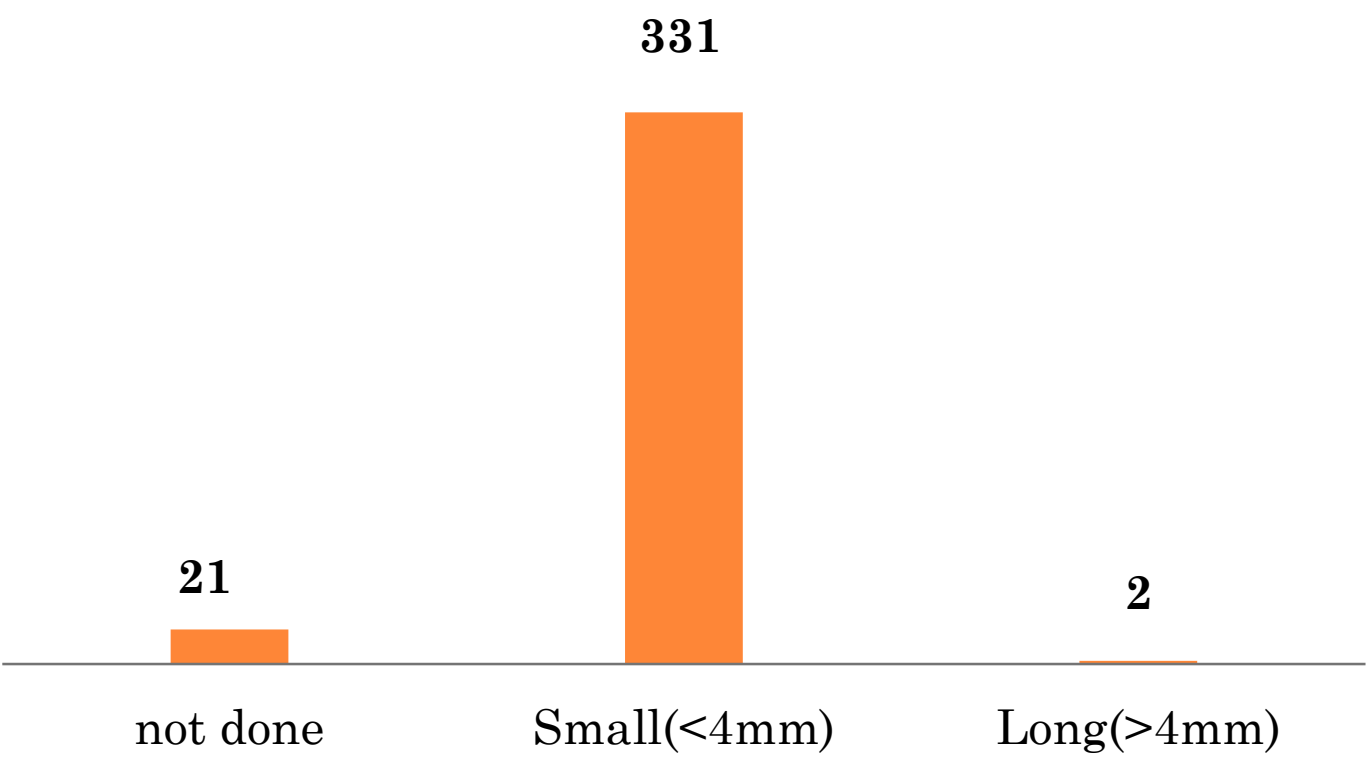
DIFFICULT CANNULATION



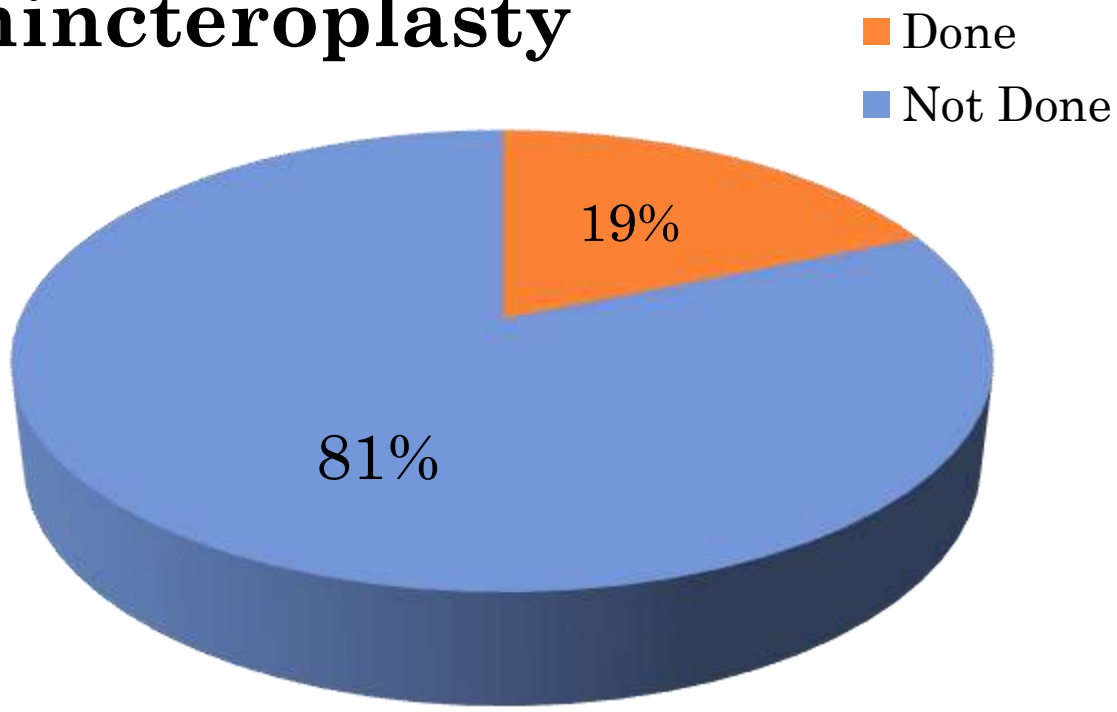
CANNULATION INSTRUMENT



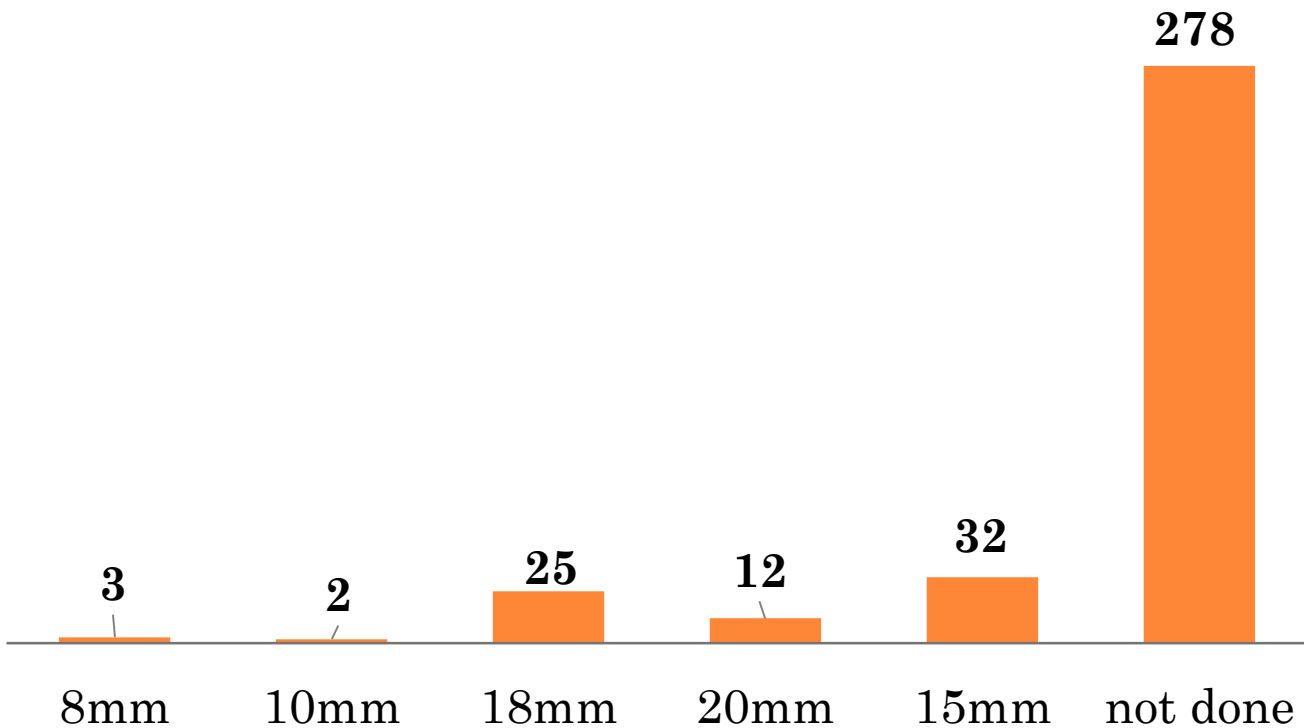
SPHINCTEROTOMY



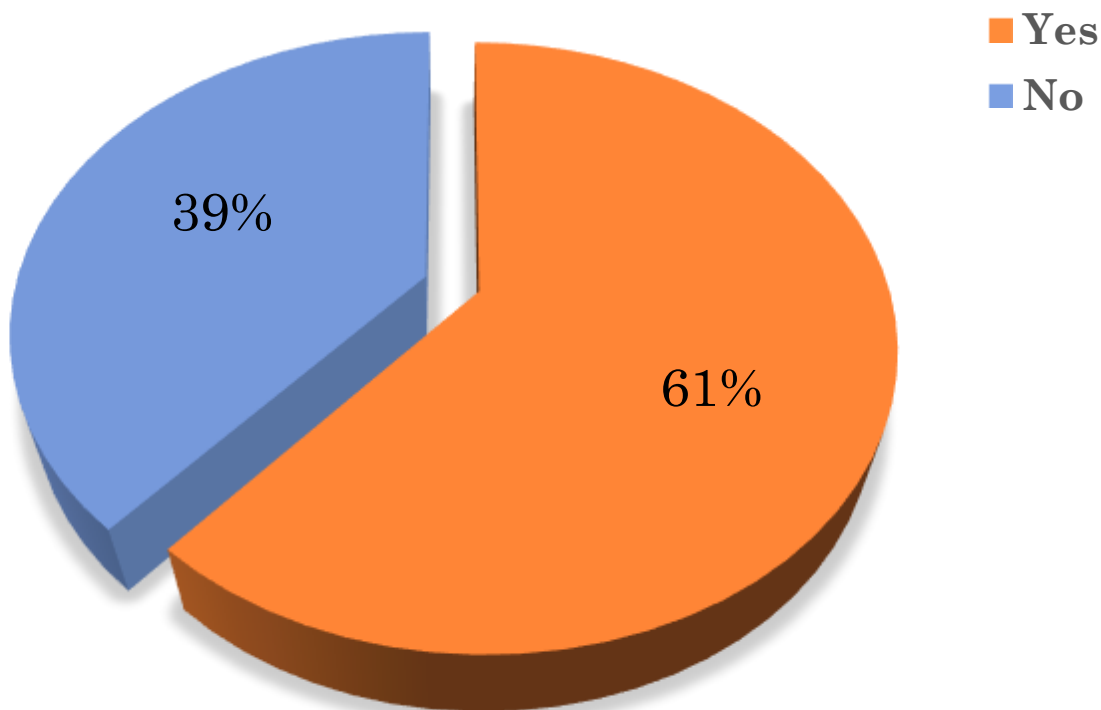
Sphincteroplasty



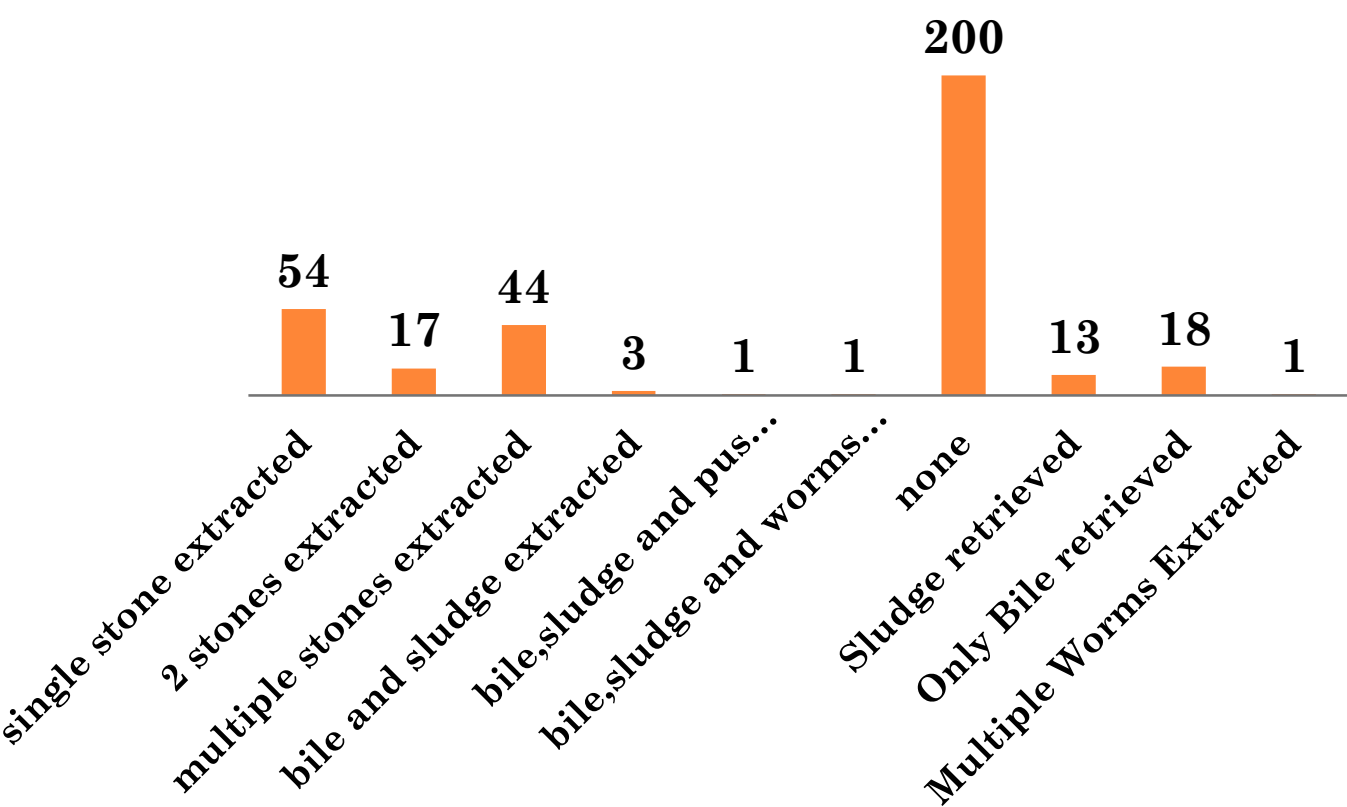
BALLOON DILATION DIAMETER



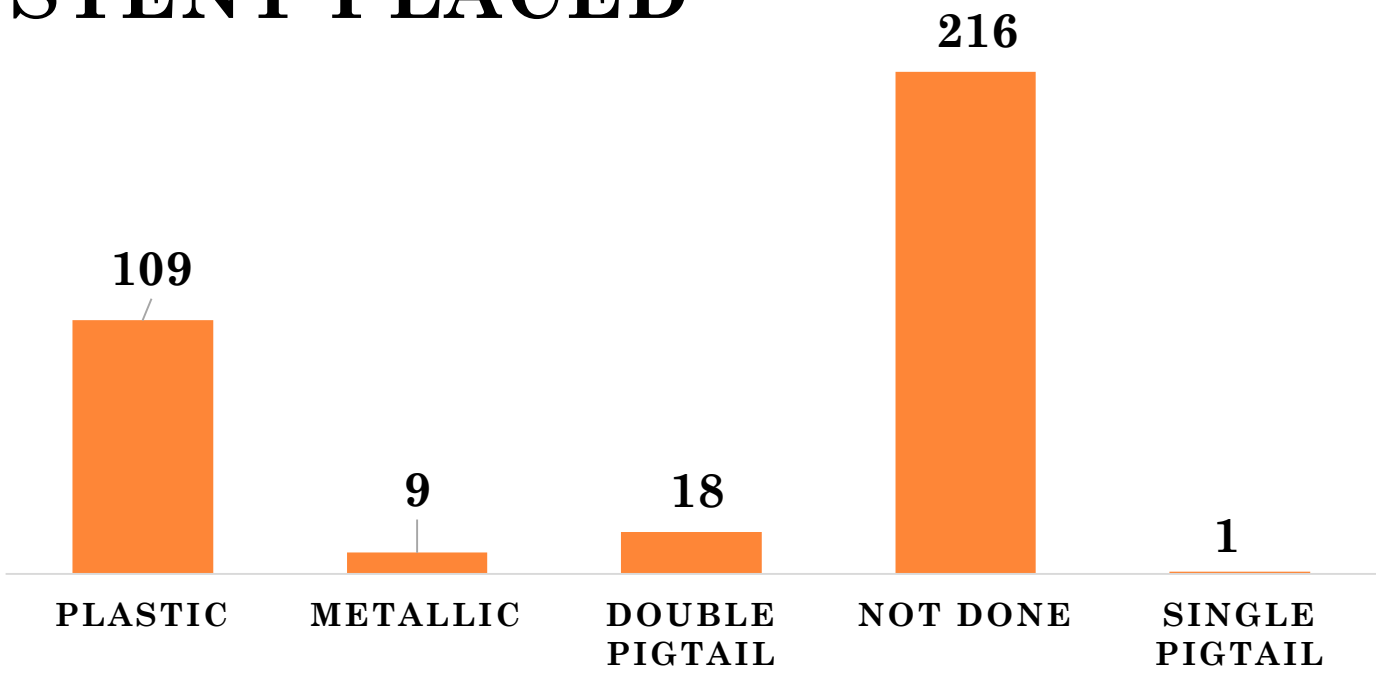
Balloon Sweep Performed



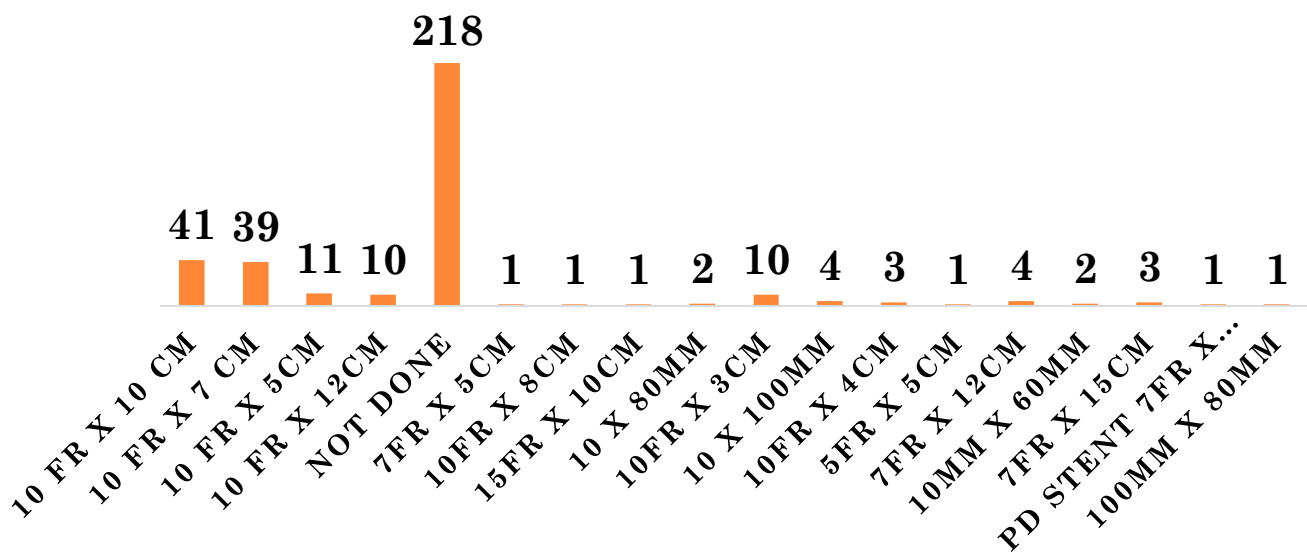
STONE AND SLUDGE EXTRACTION



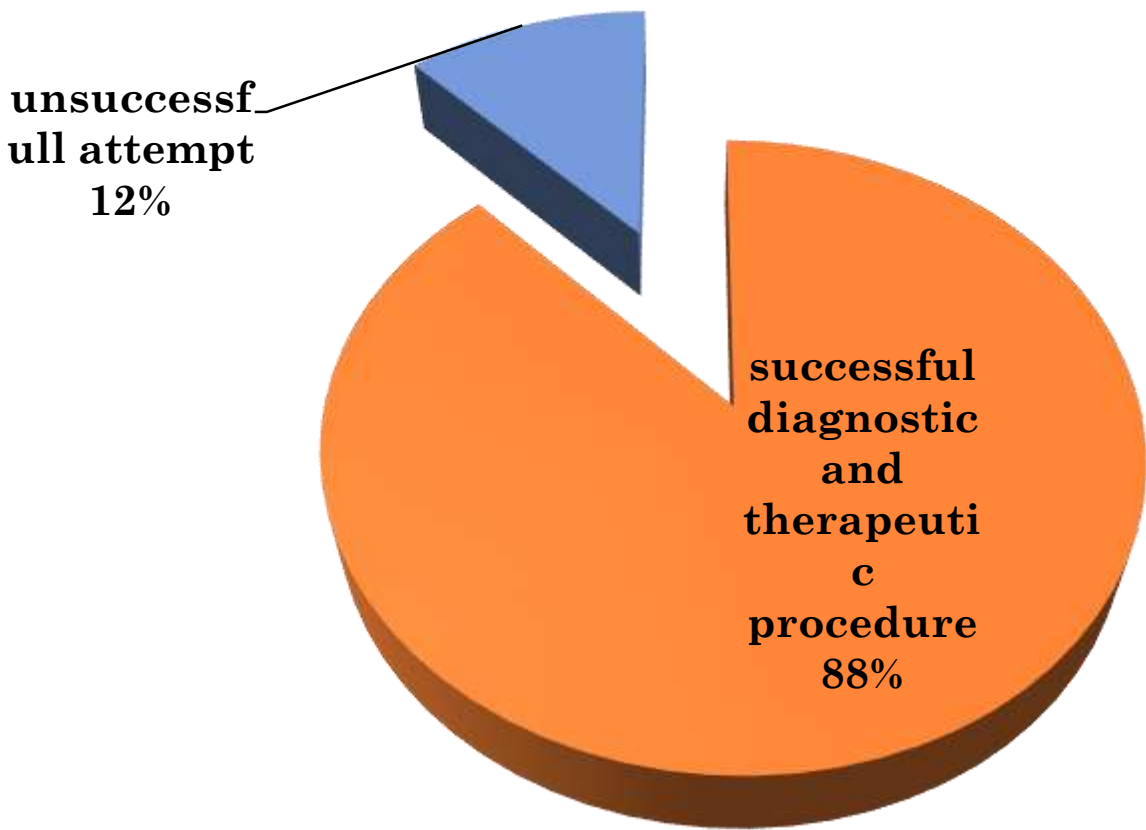
STENT PLACED



SIZE OF STENTS



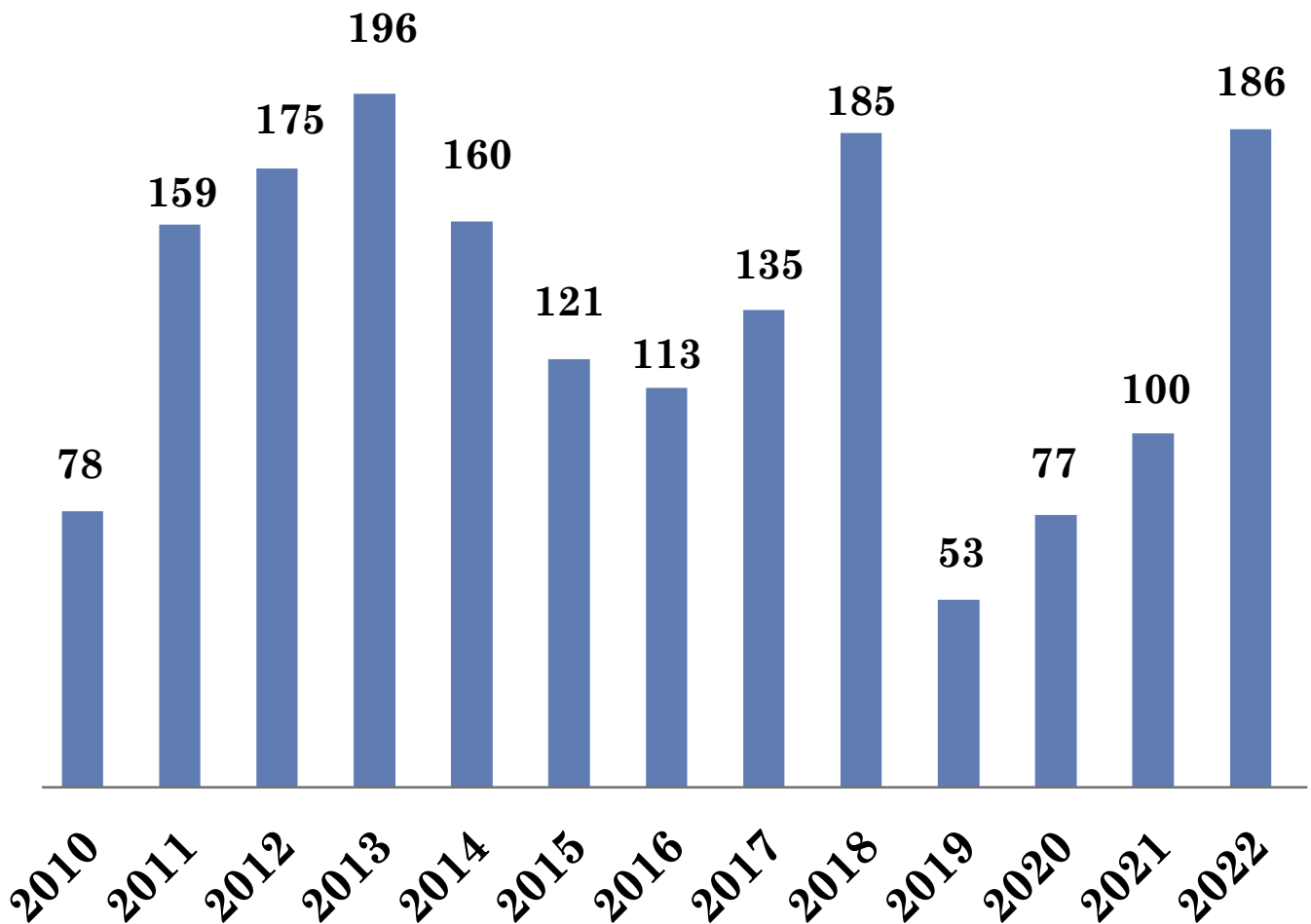
PROCEDURE SUCCESSFUL RATE



PD CANNULATION 60 TIMES

EUS Audit

- EUS is a novel minimally invasive technique with very limited availability in Pakistan. Our center is one of the oldest center providing this facility free of cost in public sector of Pakistan. More than 1700 patients took advantage of this procedure since its availability in our center. Our center has also the availability of onsite Histology by consultant histopathologist. During the COVID year the center facilitated 77 patients in 2020 and 100 patients in 2021. The number again raised to 186 in 2022.

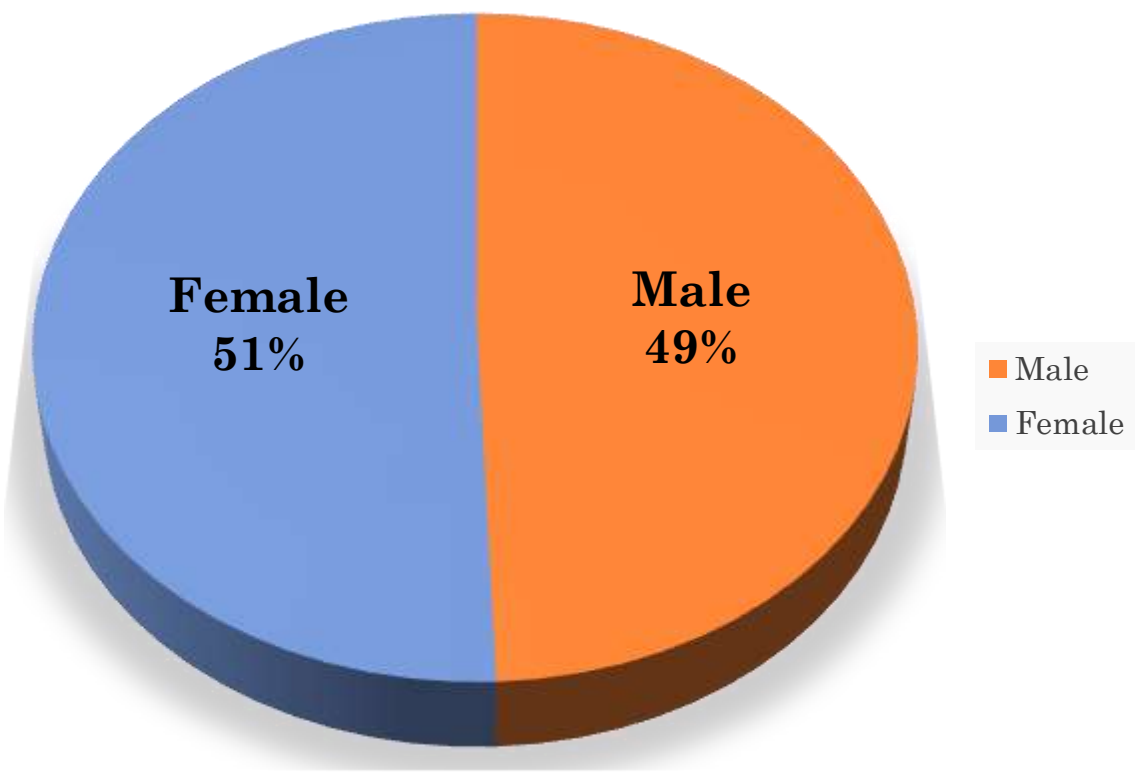


2020

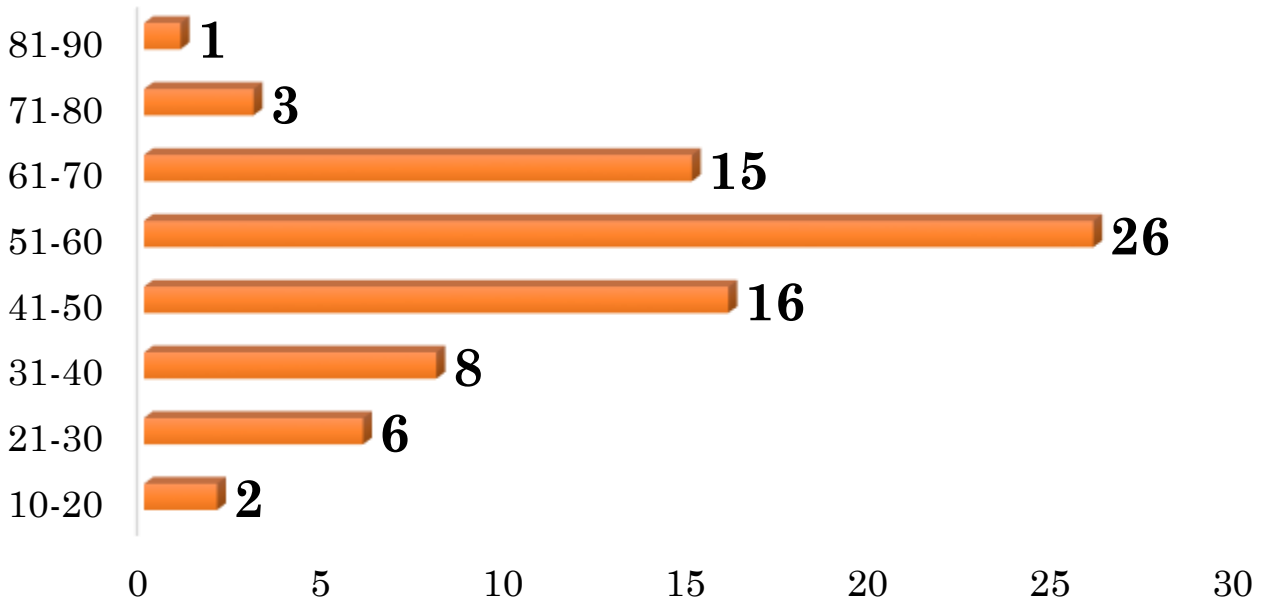
TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

Total No of Patients	77
Male	38
Female	39

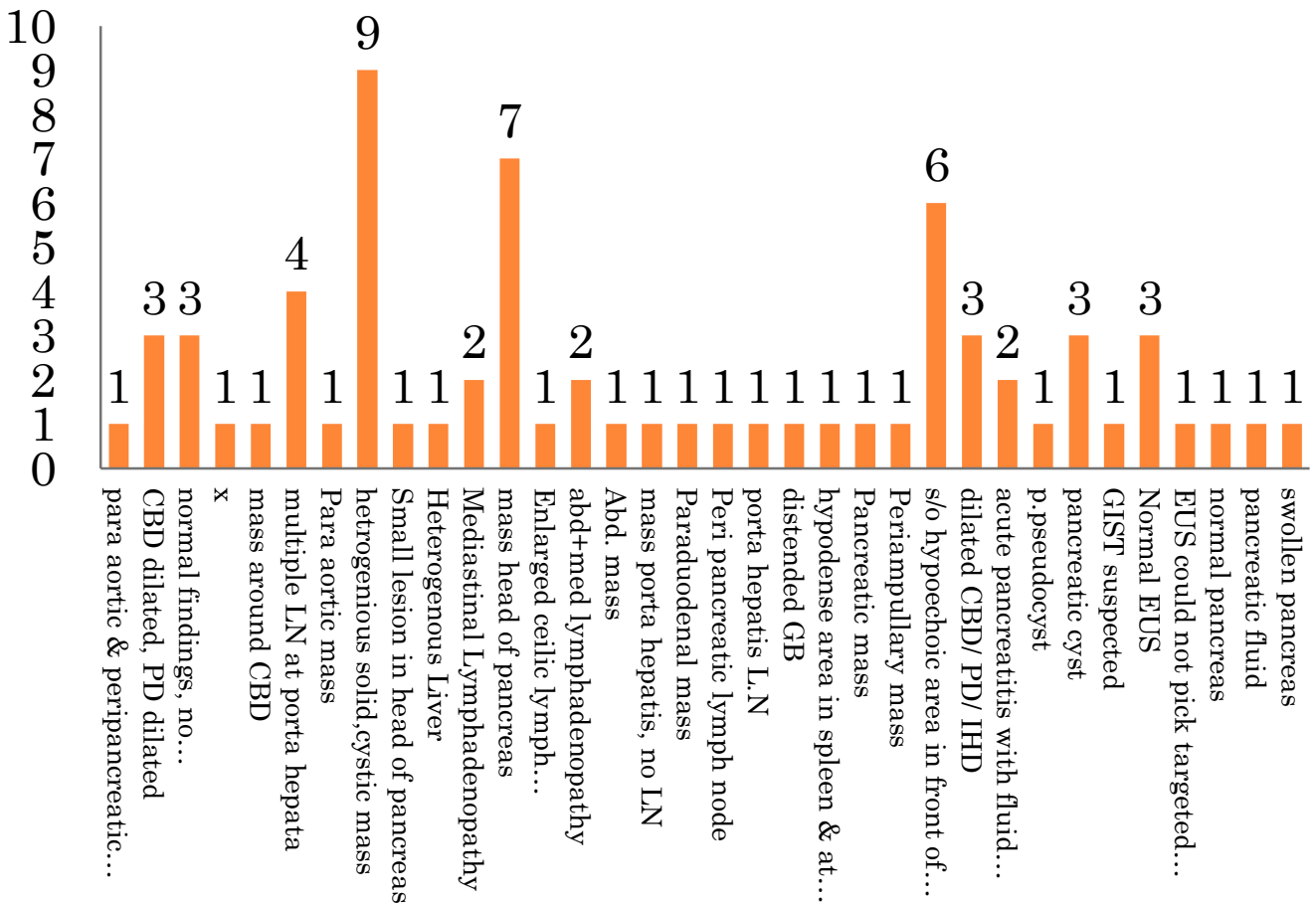
Gender Distribution



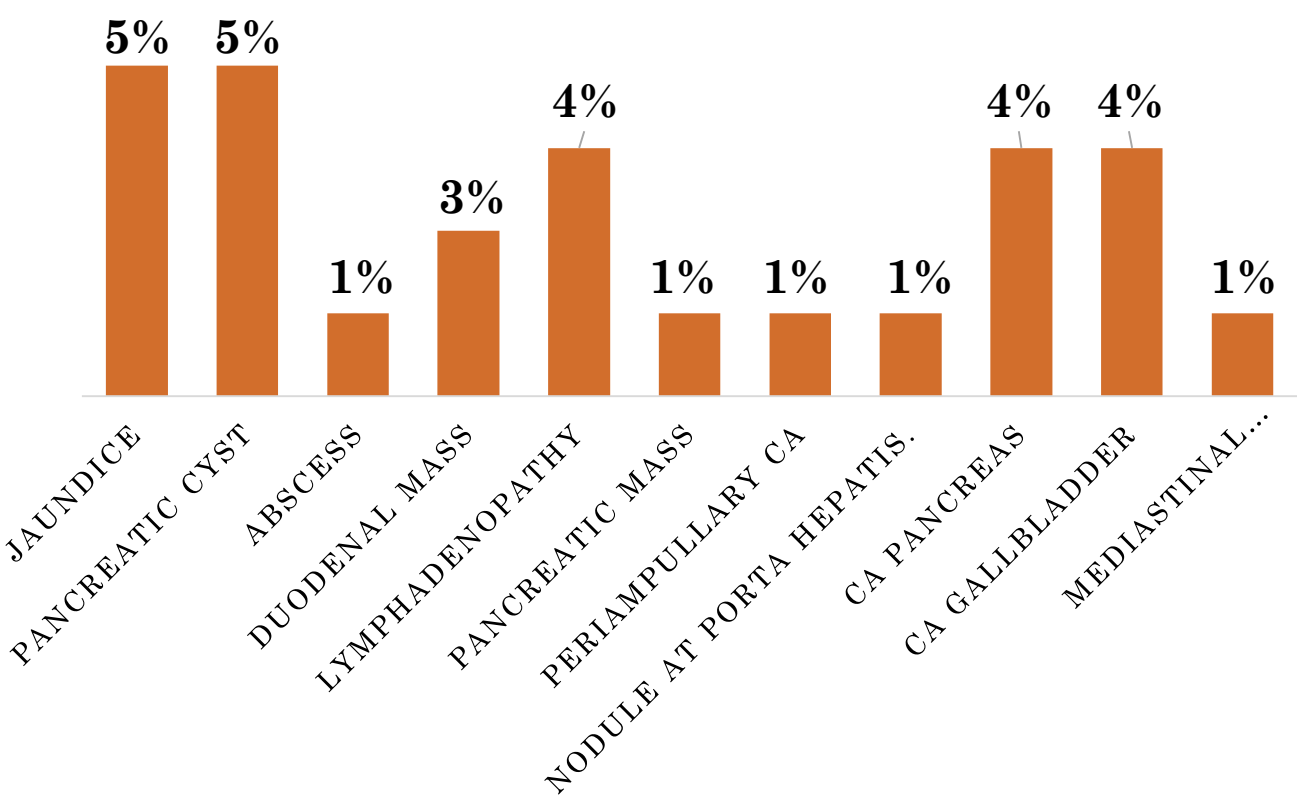
Age Distribution:



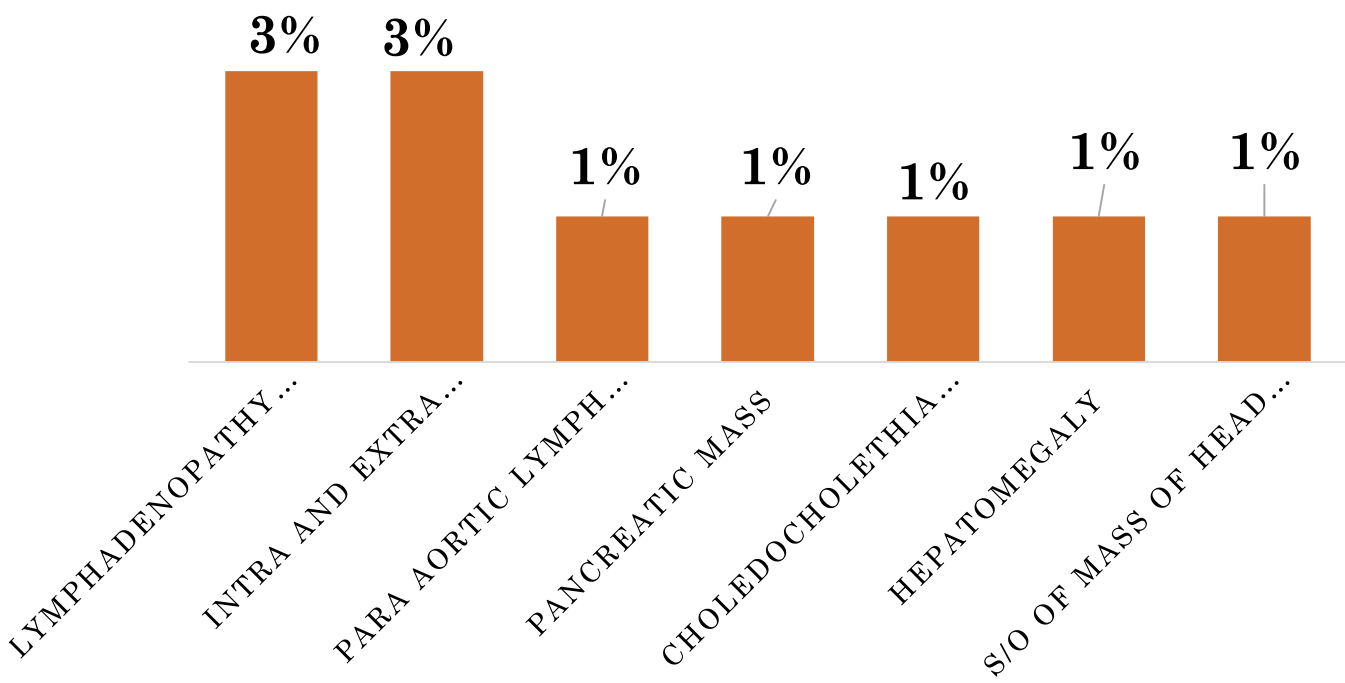
PROCEDURAL FINDINGS



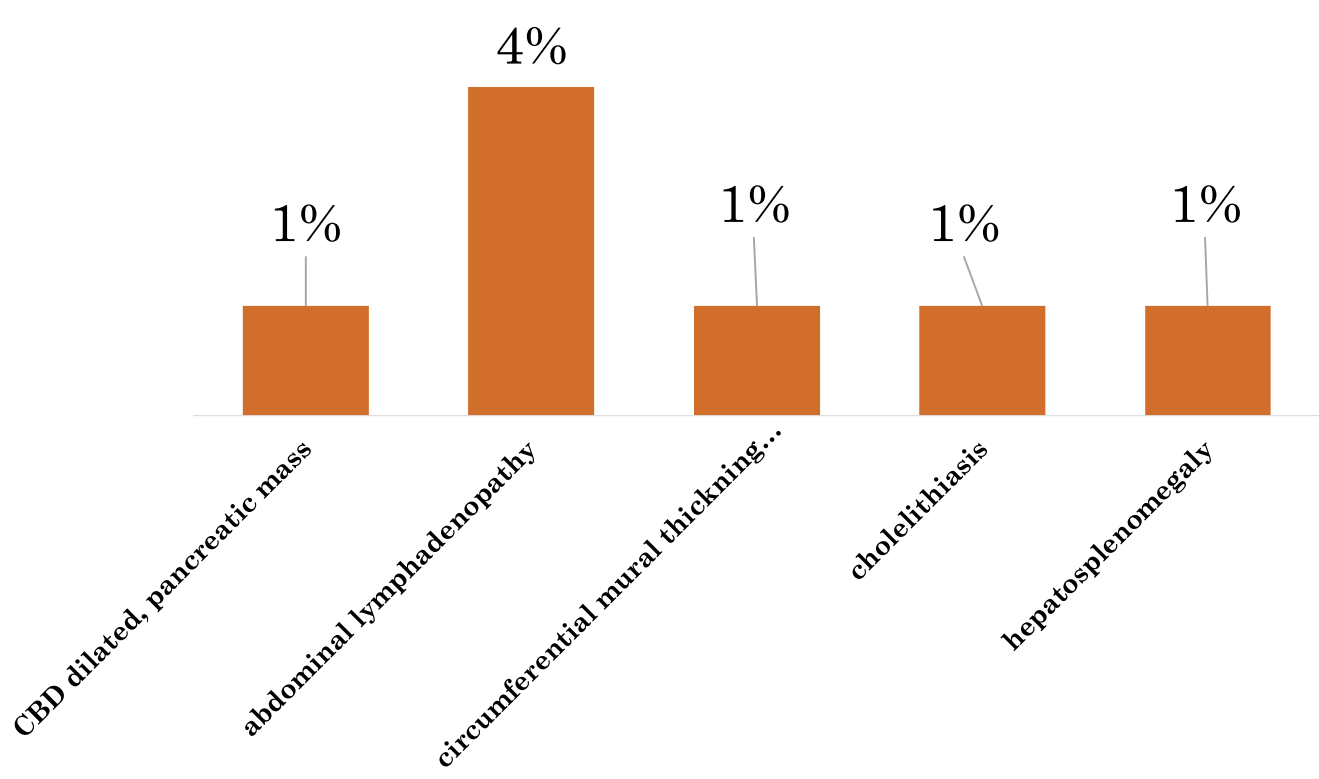
INDICATION



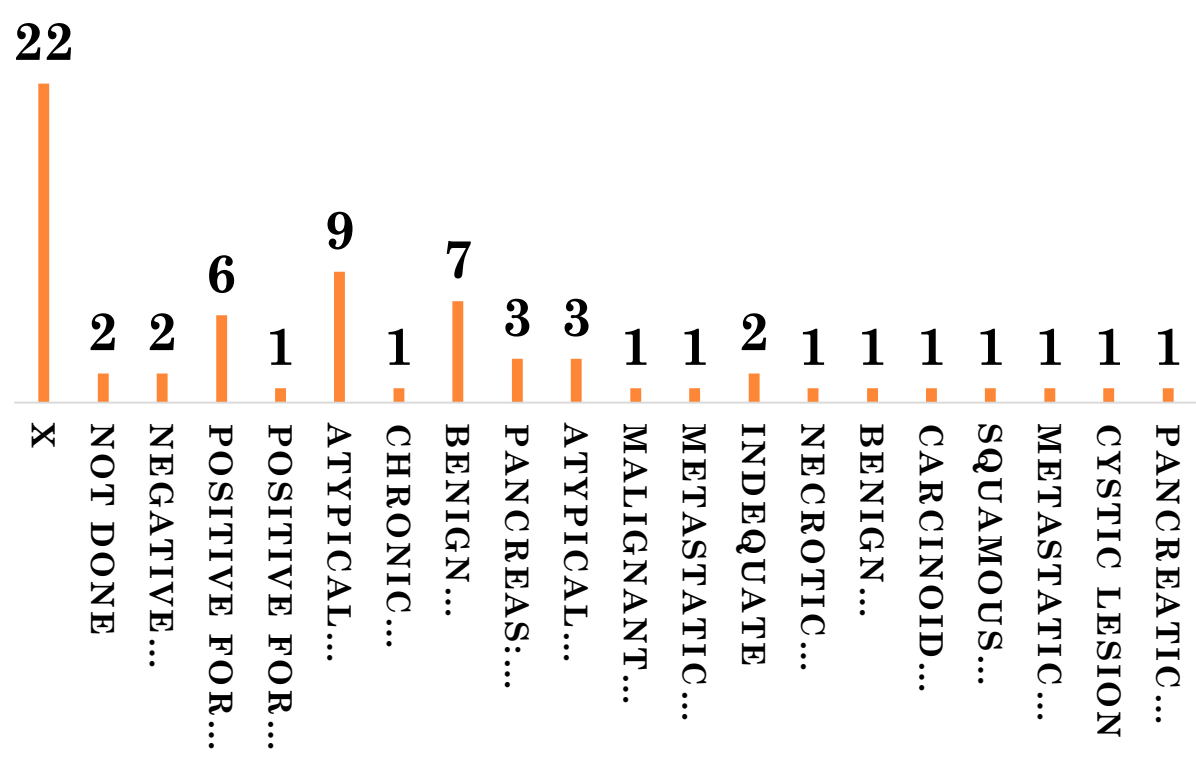
USG FINDINGS



CT SCAN FINDINGS

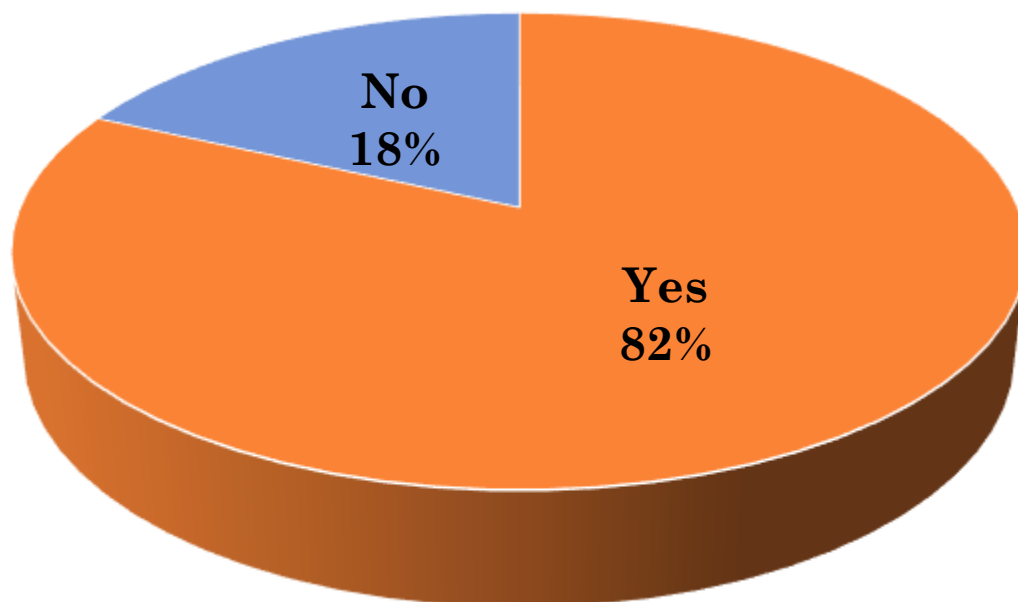


HISTOPATHOLOGY FINDINGS



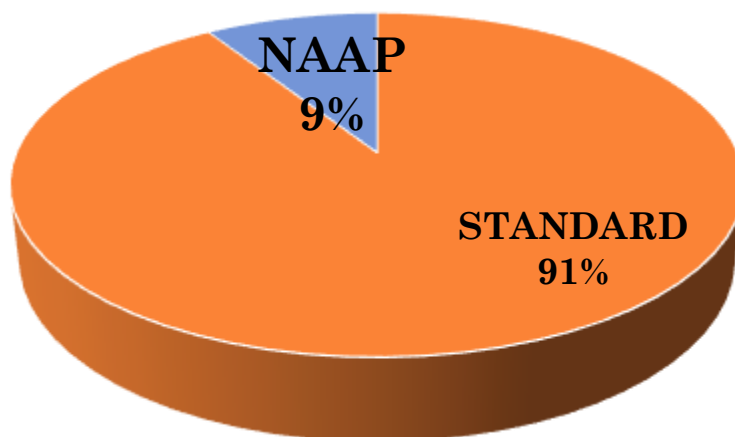
BIOPSY PROCEDURE

■ Yes
■ No



TYPE OF SEDATION

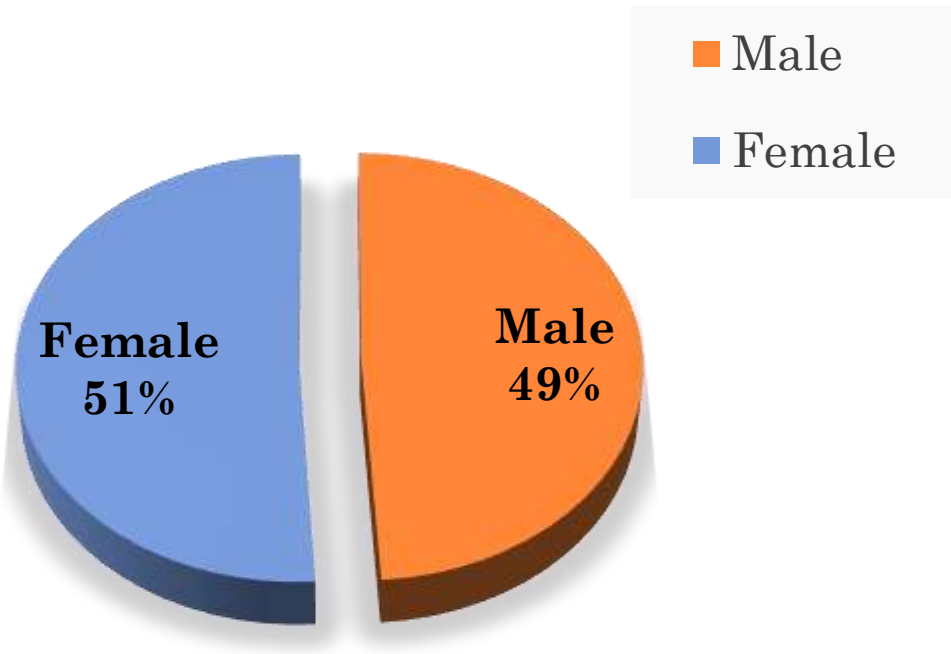
■ STANDARD
■ NAAP



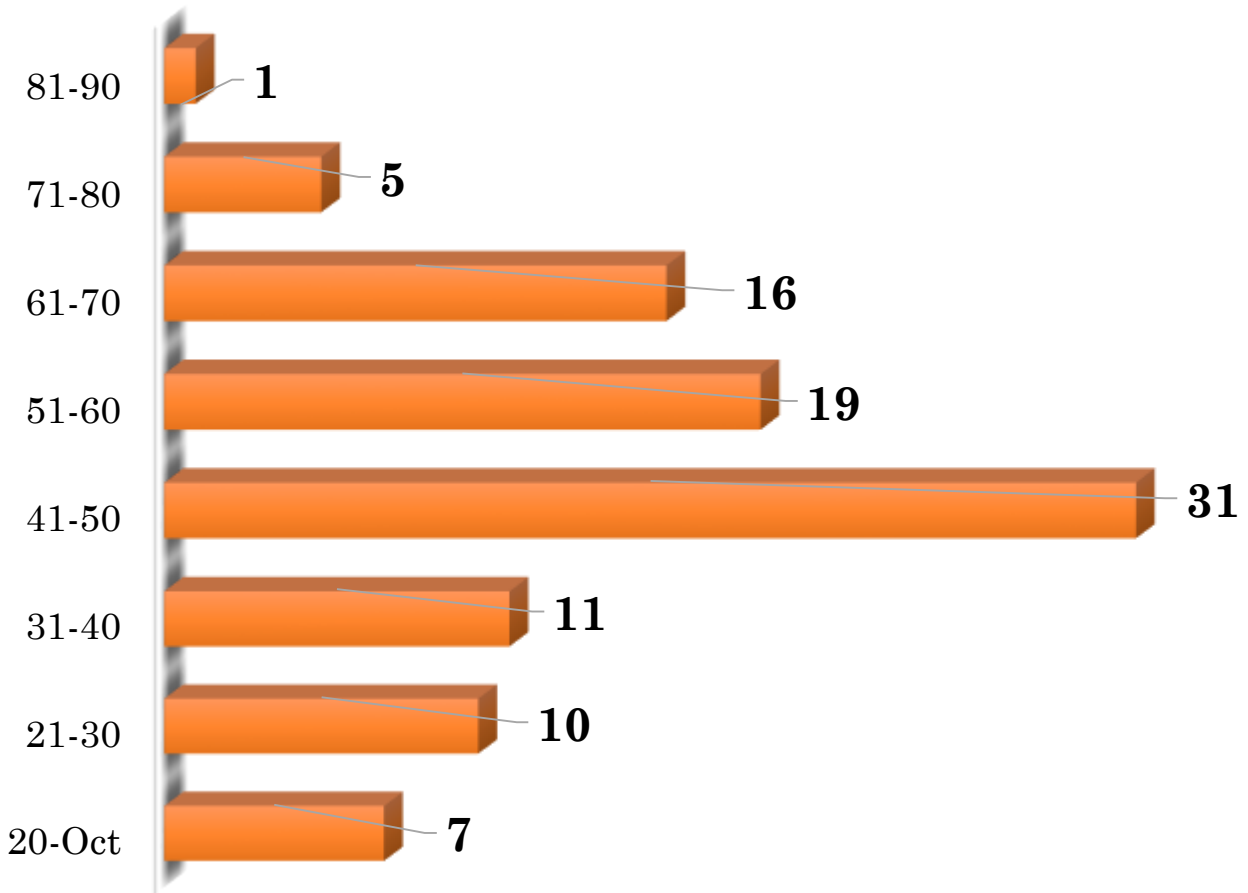
2021

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

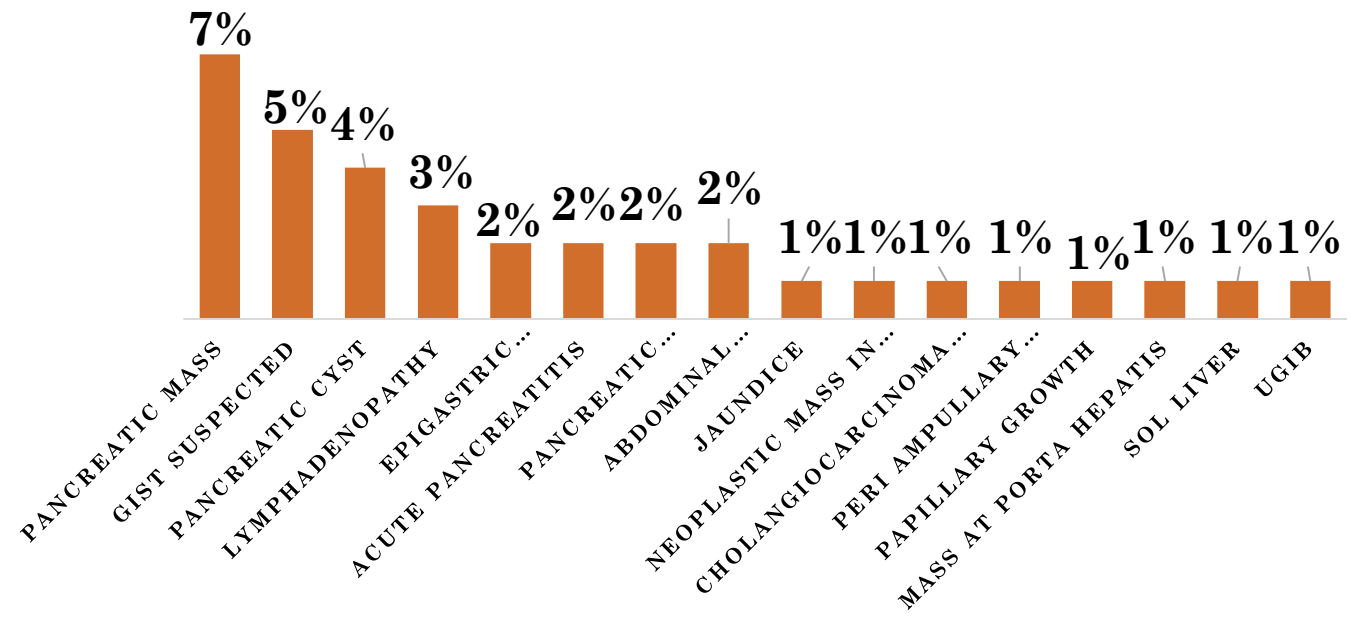
Total No of Patients	100
Male	49
Female	51



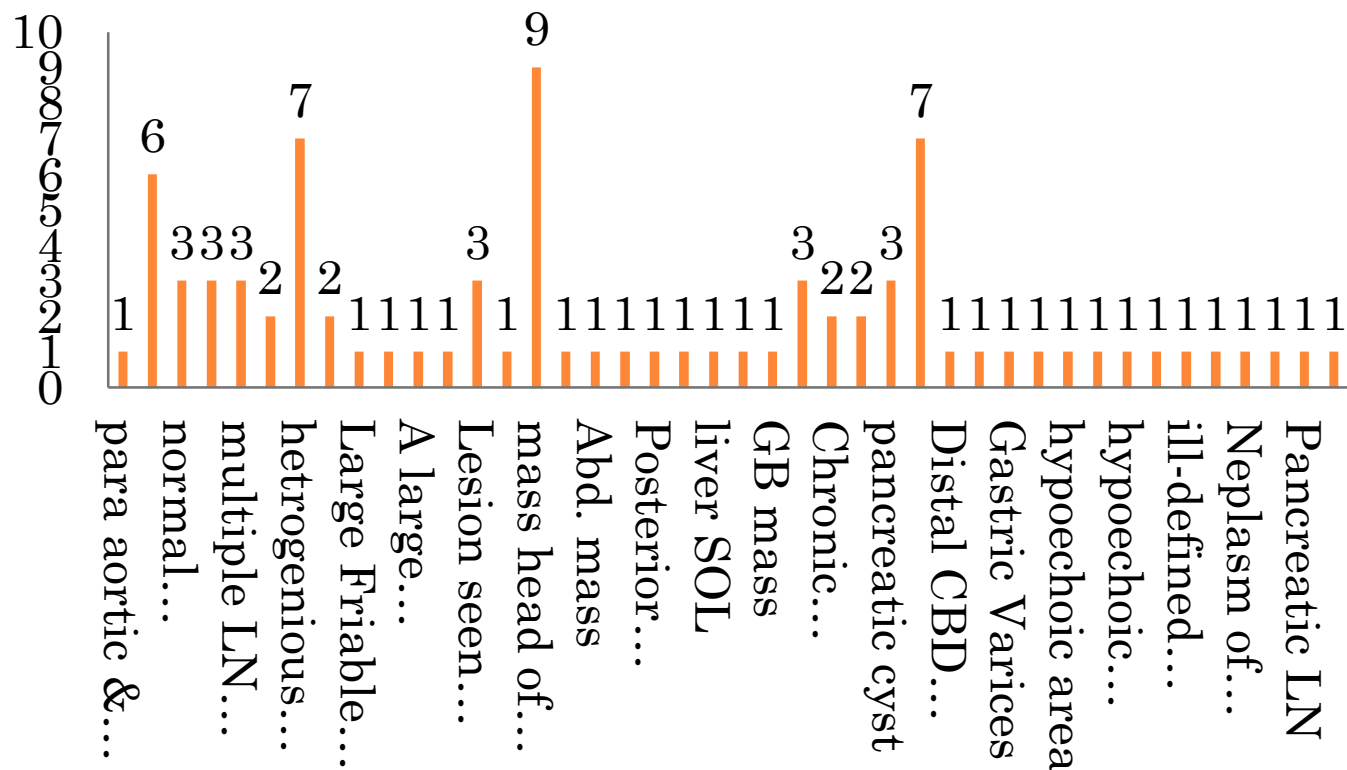
Age Distribution:



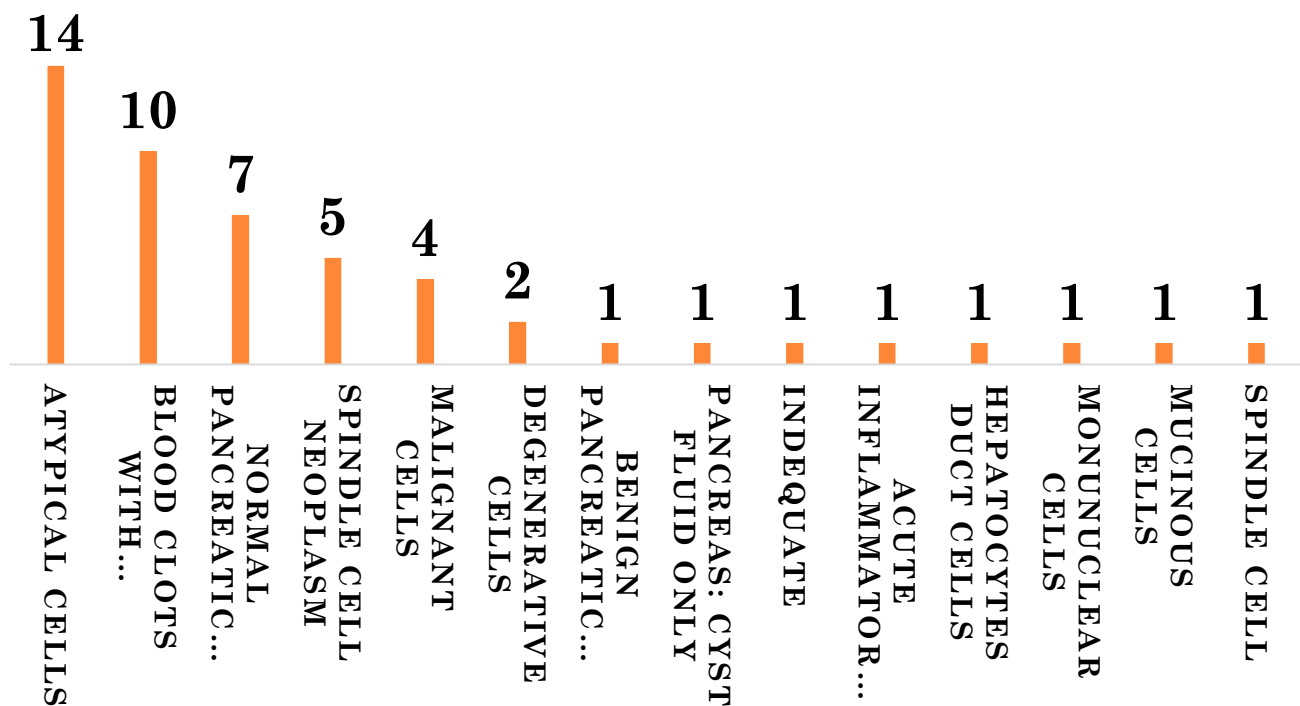
INDICATION



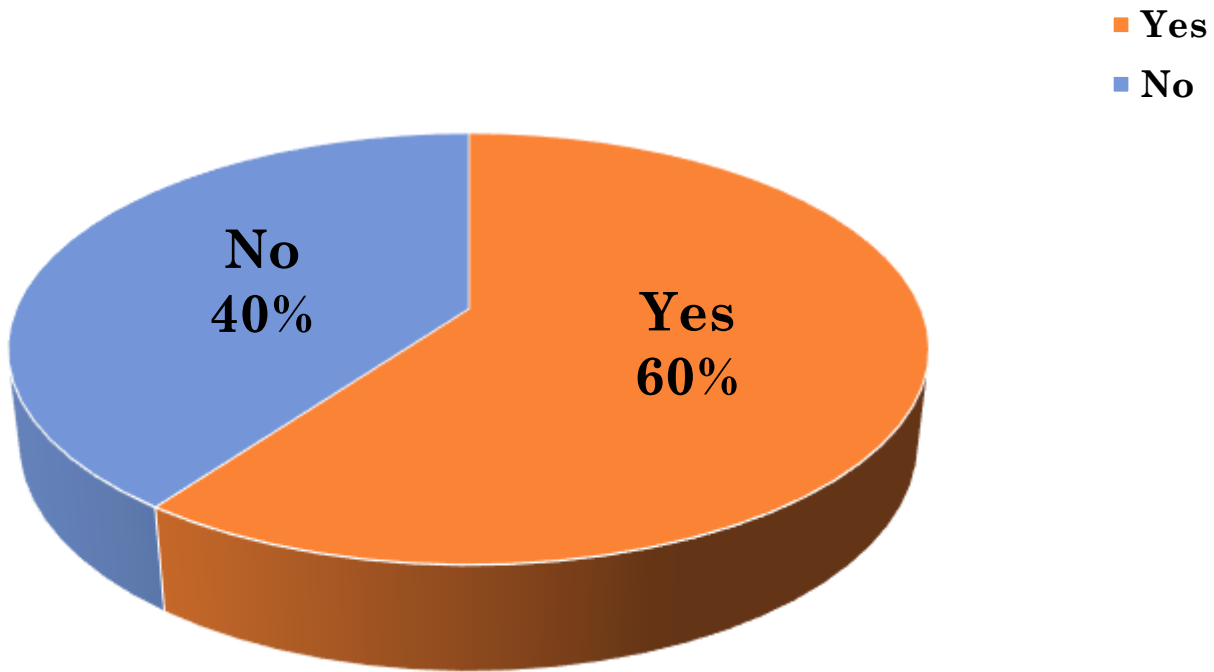
PROCEDURAL FINDINGS



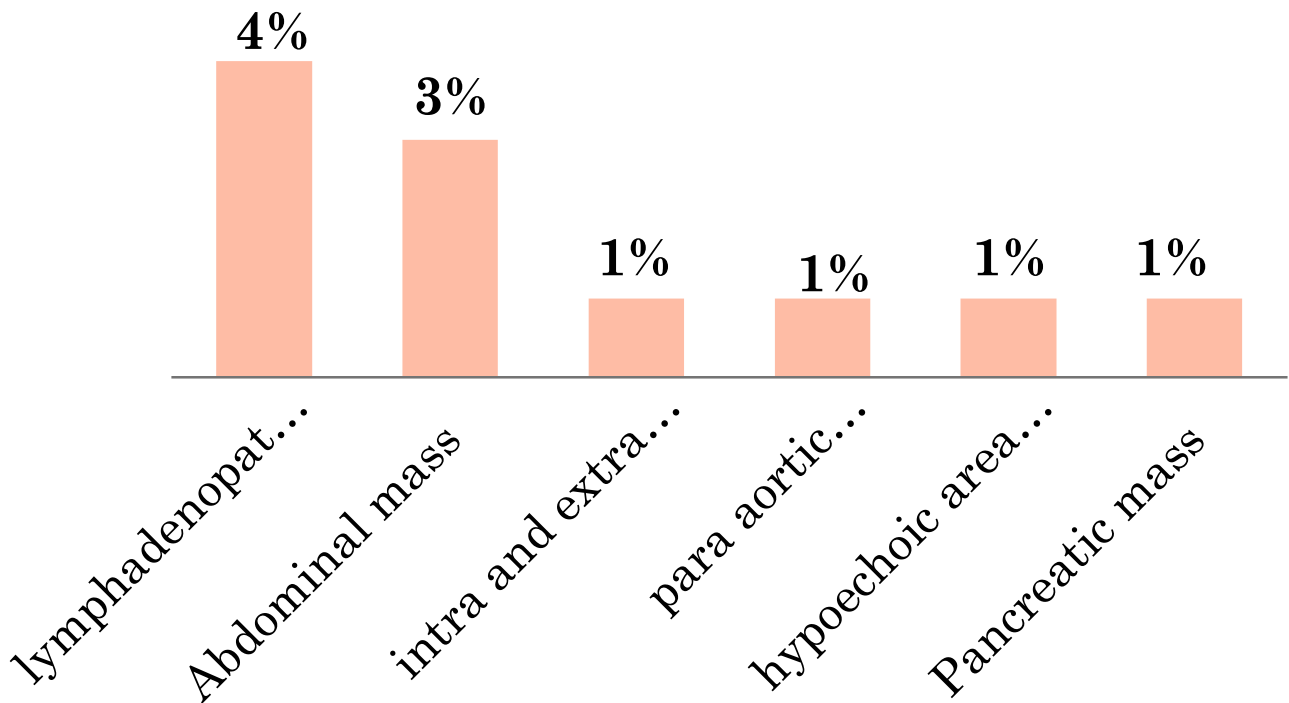
HISTOPATHOLOGY FINDINGS



BIOPSY PROCEDURE



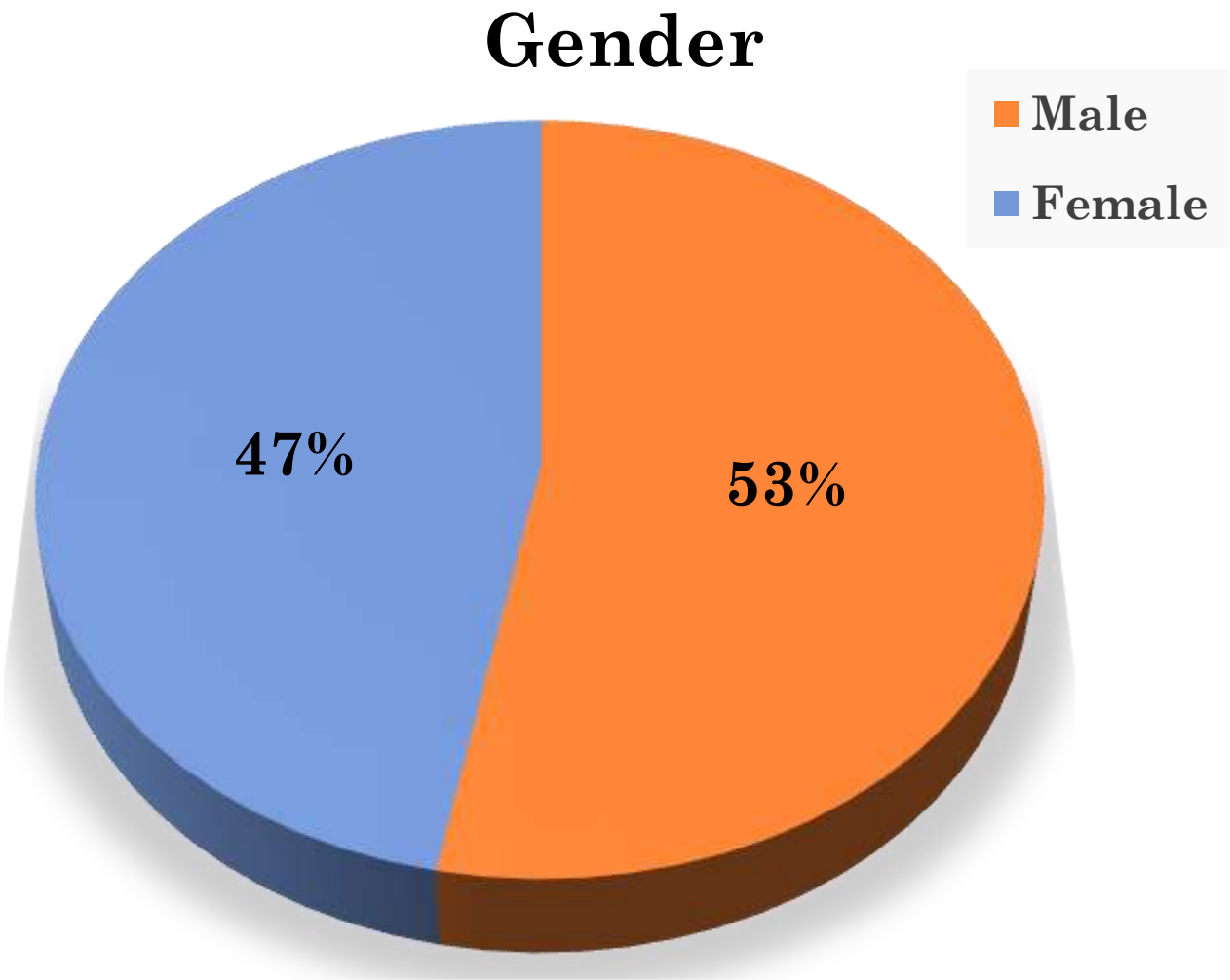
USG FINDINGS



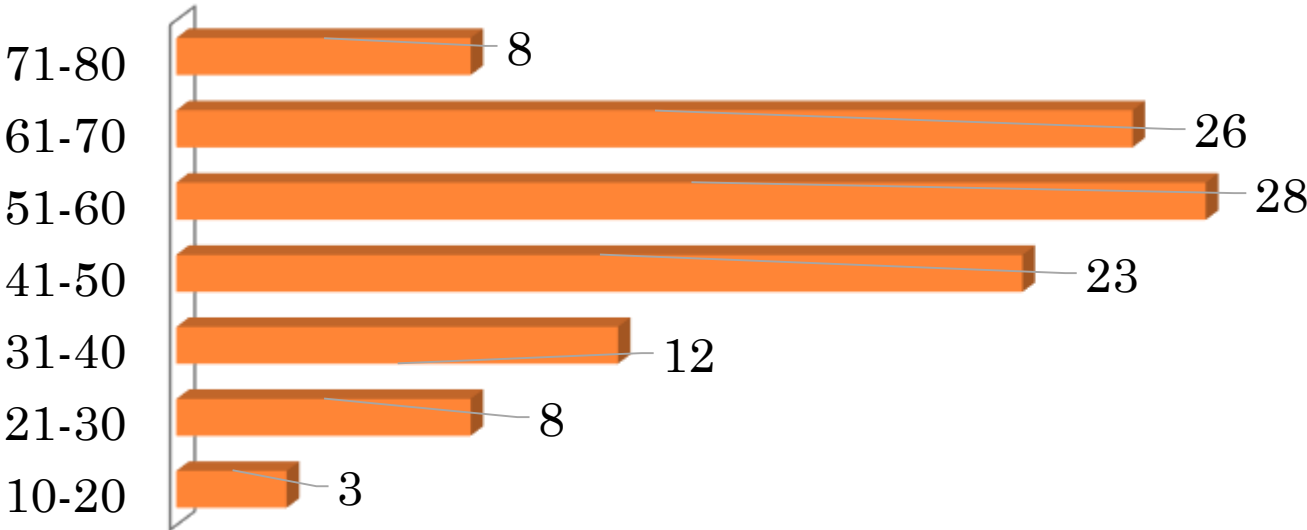
2022

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

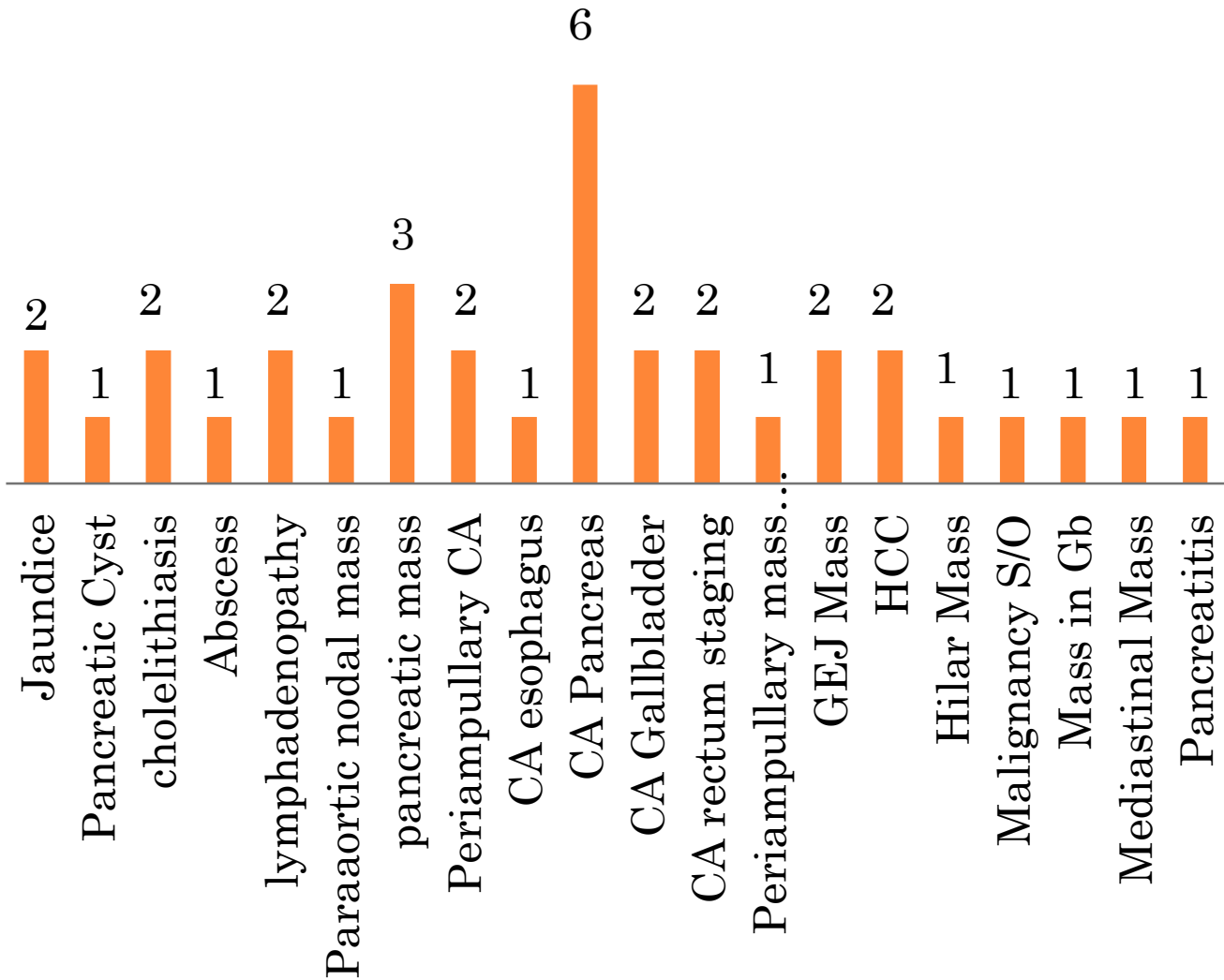
Total No of Patients	181
Male	96
Female	85



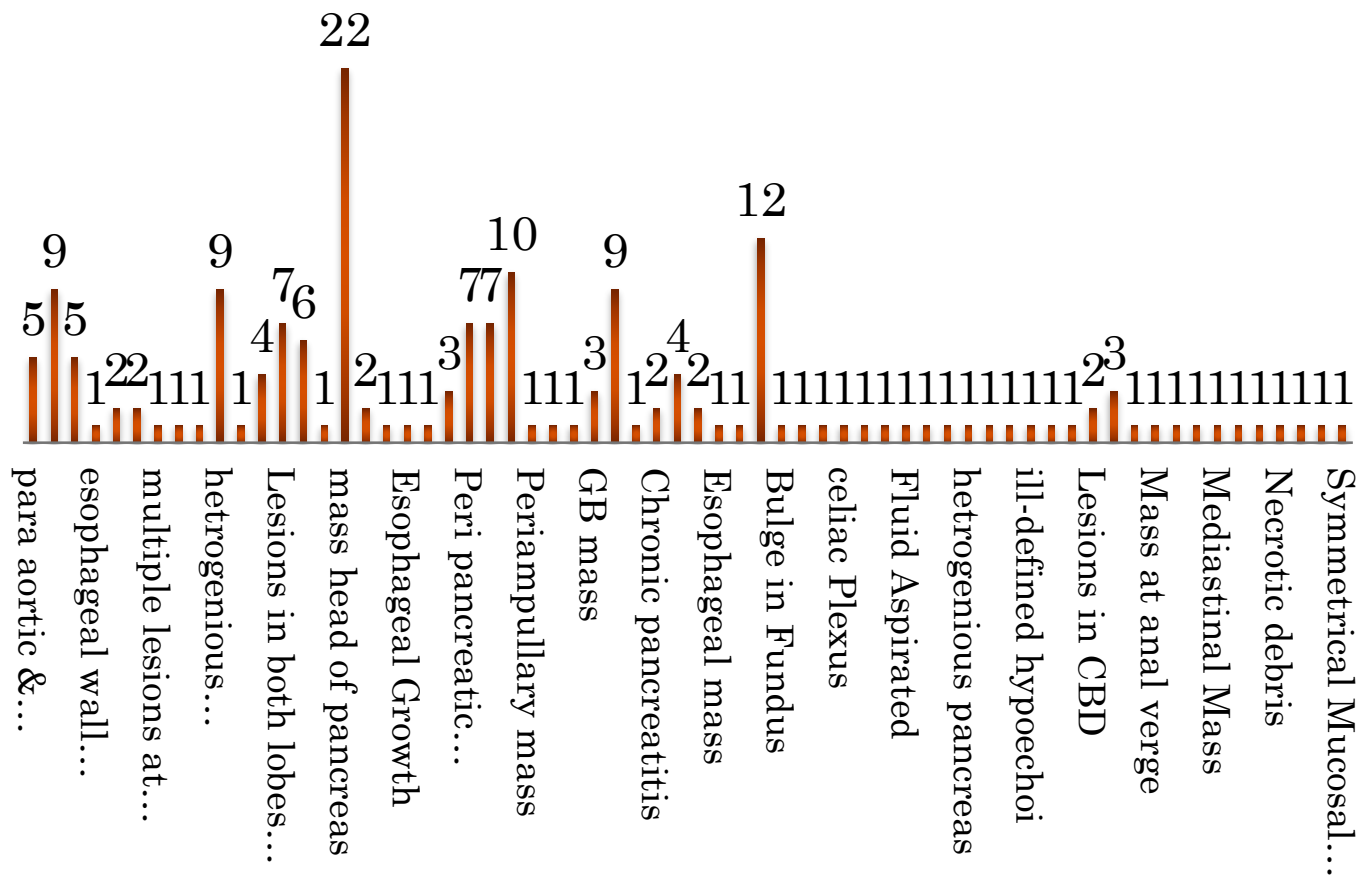
Age Distribution:



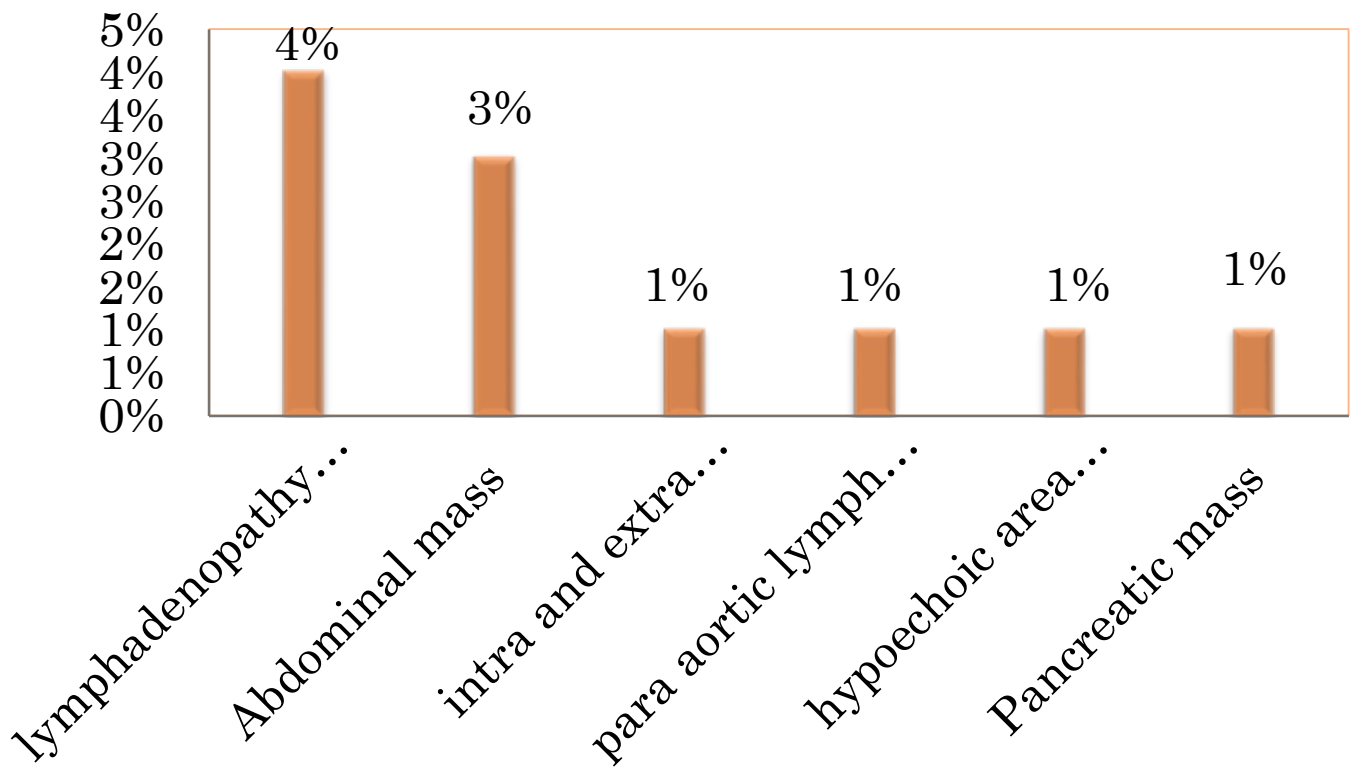
INDICATION



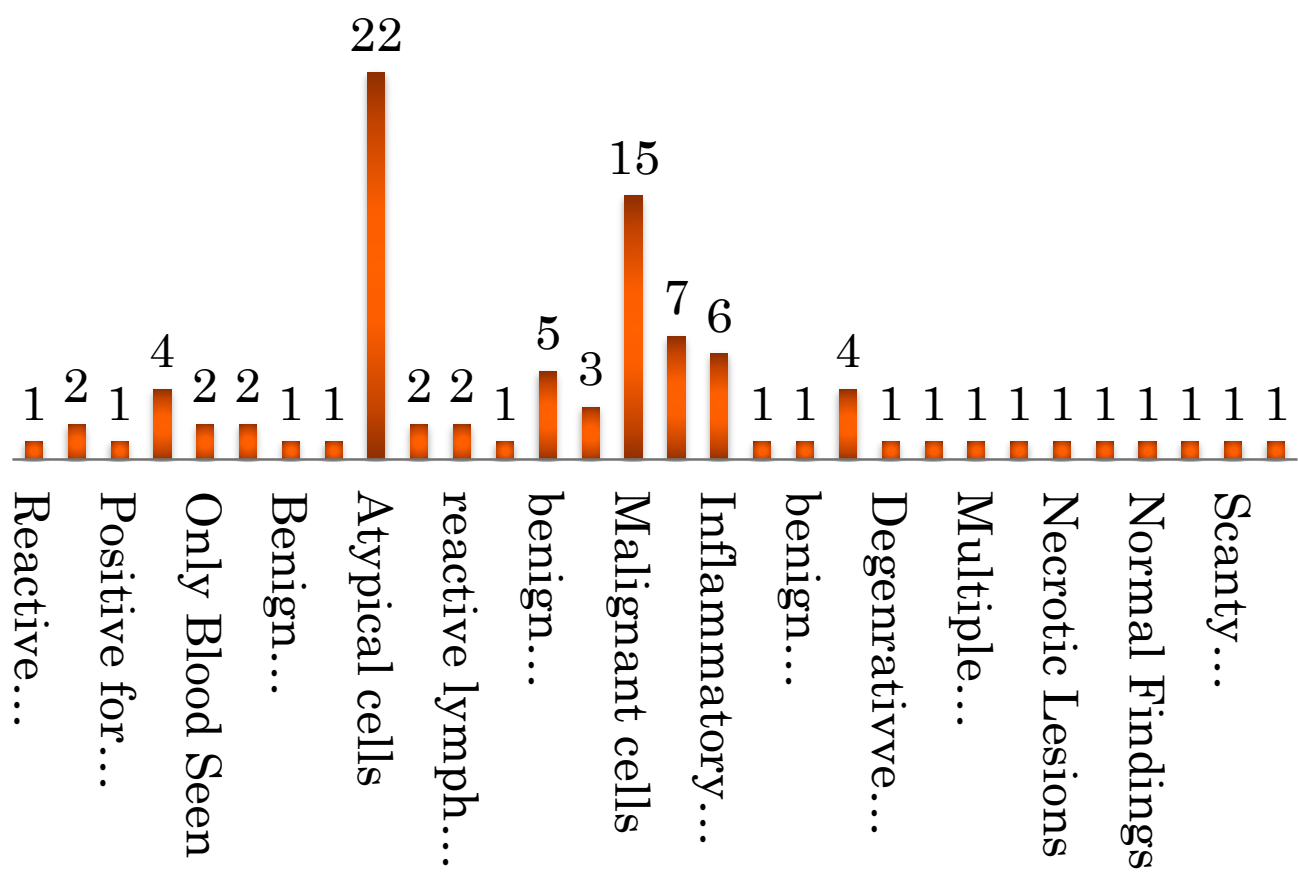
PROCEDURAL FINDINGS



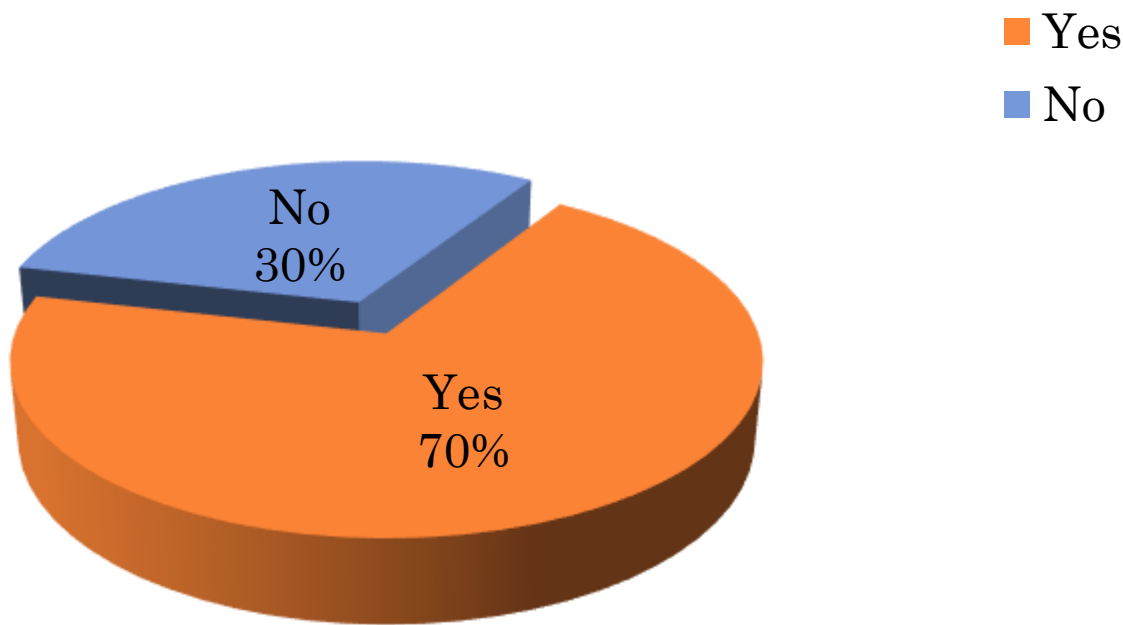
USG FINDINGS



HISTOPATHOLOGY FINDINGS



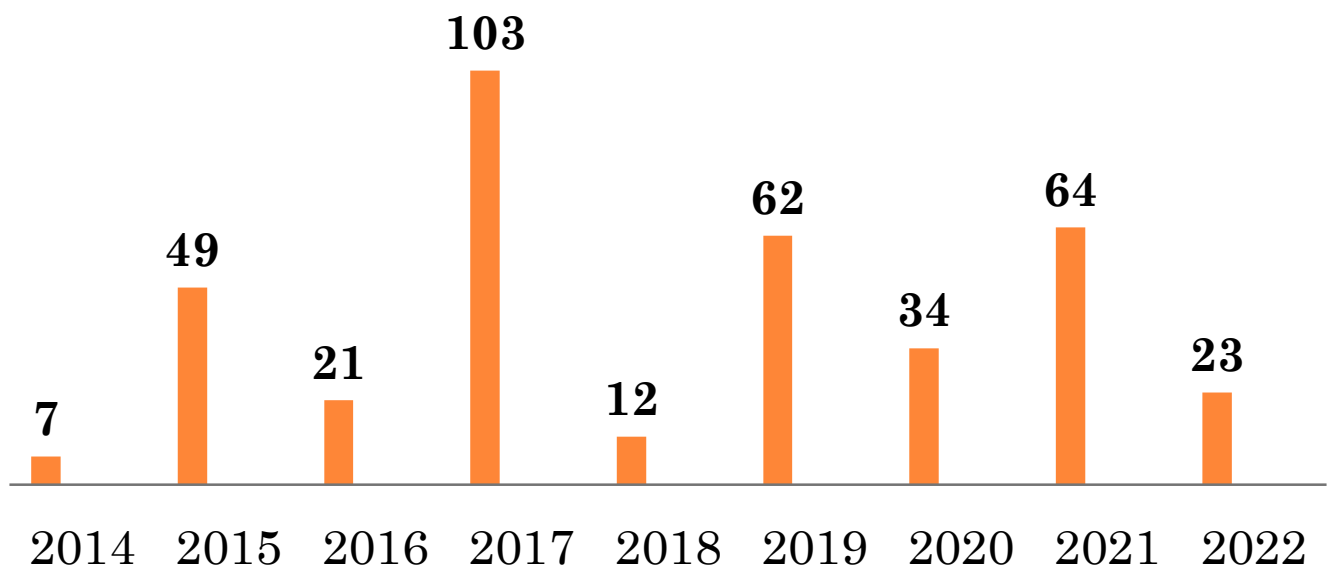
BIOPSY Procedure



Manometry Audit

Incidence of esophageal motility disorders in patients with dysphagia and chest pain ranges from 25% to 63%. The gold standard diagnostic tool is high resolution impedance manometry. It is a diagnostic modality with limited availability in Pakistan and center for liver and GI diseases, holy family hospital Rawalpindi is the first public sector hospital which has an experience of more than 9 years in conducting this procedure. During the COVID year 34 patients were entertained following all precautionary measures. The number improved to 64 in 2021 as the COVID conditions improved. In the year 2022 our motility lab underwent upgradation with the latest HRM system and software's. In 2022 our center also started motility services for anorectal disorders. Achalasia remained the commonest diagnosis. Most of the achalasia patients under went pneumatic dilation successfully at our center and are being followed up in the dedicated motility disorder clinic on every Wednesday. The center is also providing patient support program for Achalasia cases through social media platform

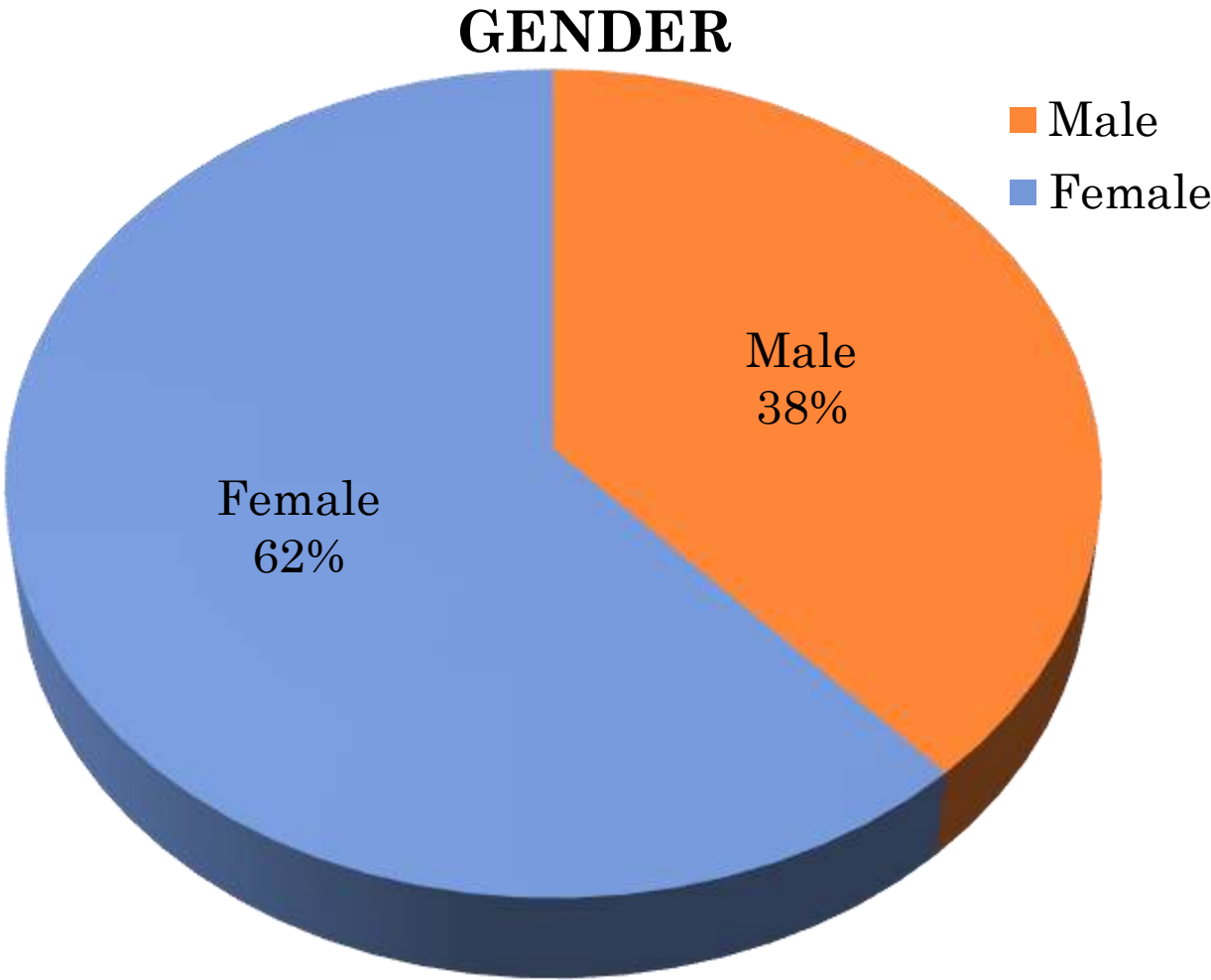
<https://www.facebook.com/Achalasia-Support-Group-Pakistan-108419877757357/>



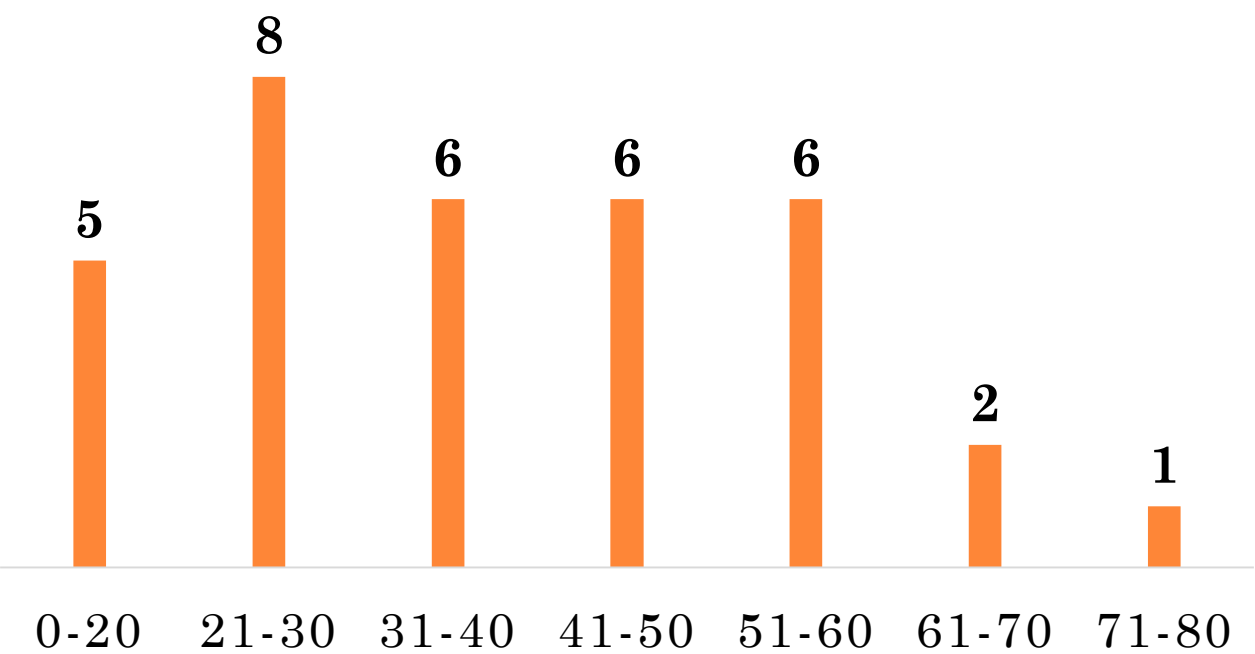
2020

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

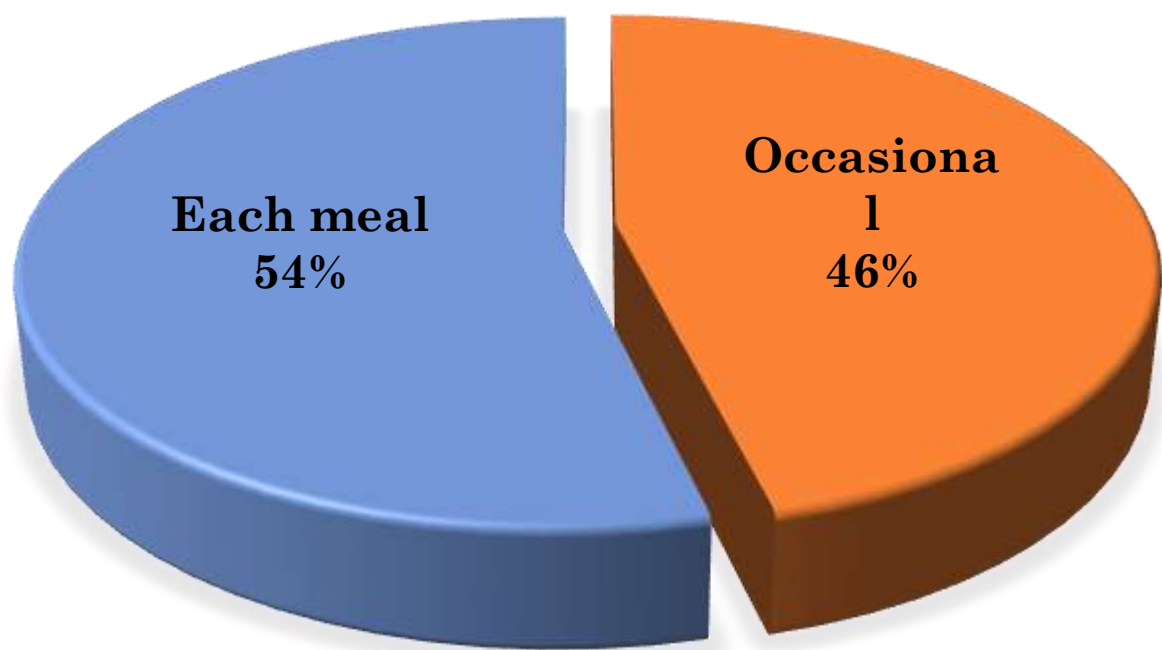
Total No of Patients	34
Male	13
Female	21



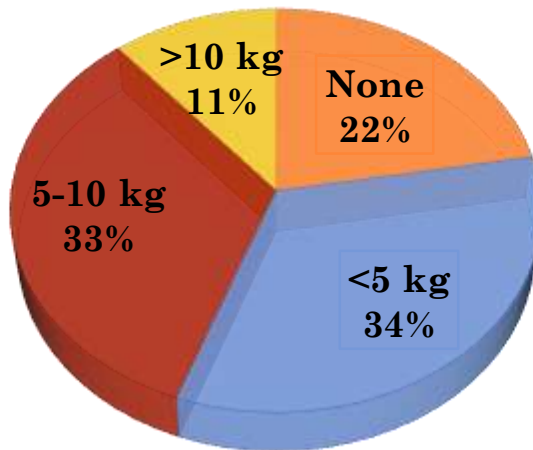
AGE WISE DISTRIBUTION



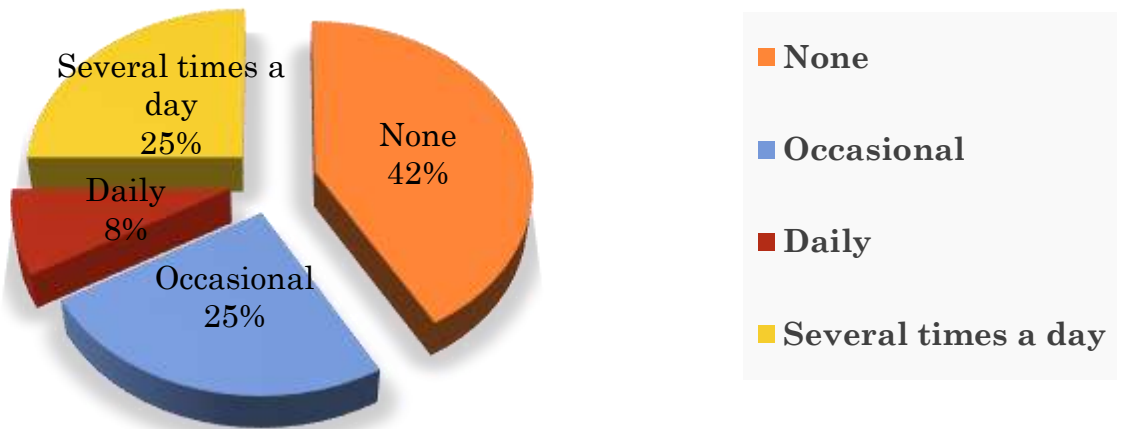
PRESENTING COMPLAINT (DYSPHAGIA SEVERITY)



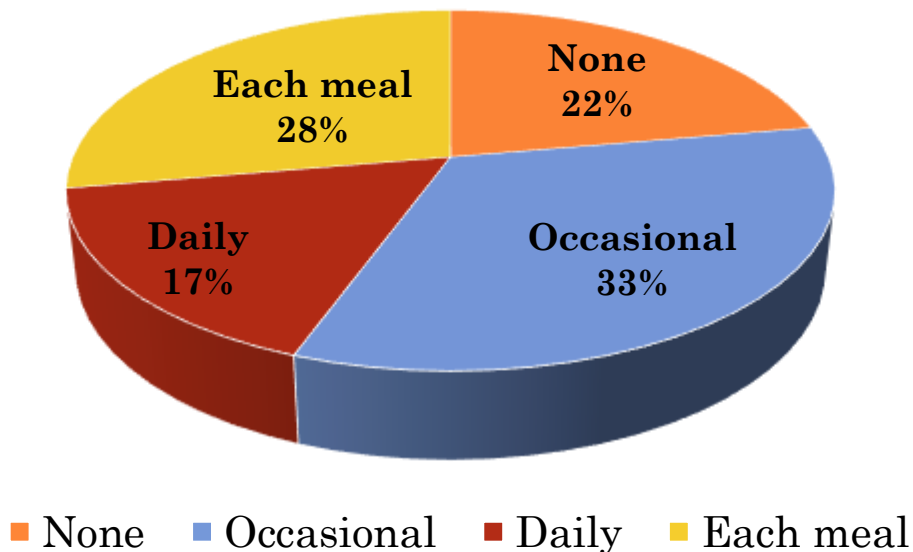
WEIGHT LOSS



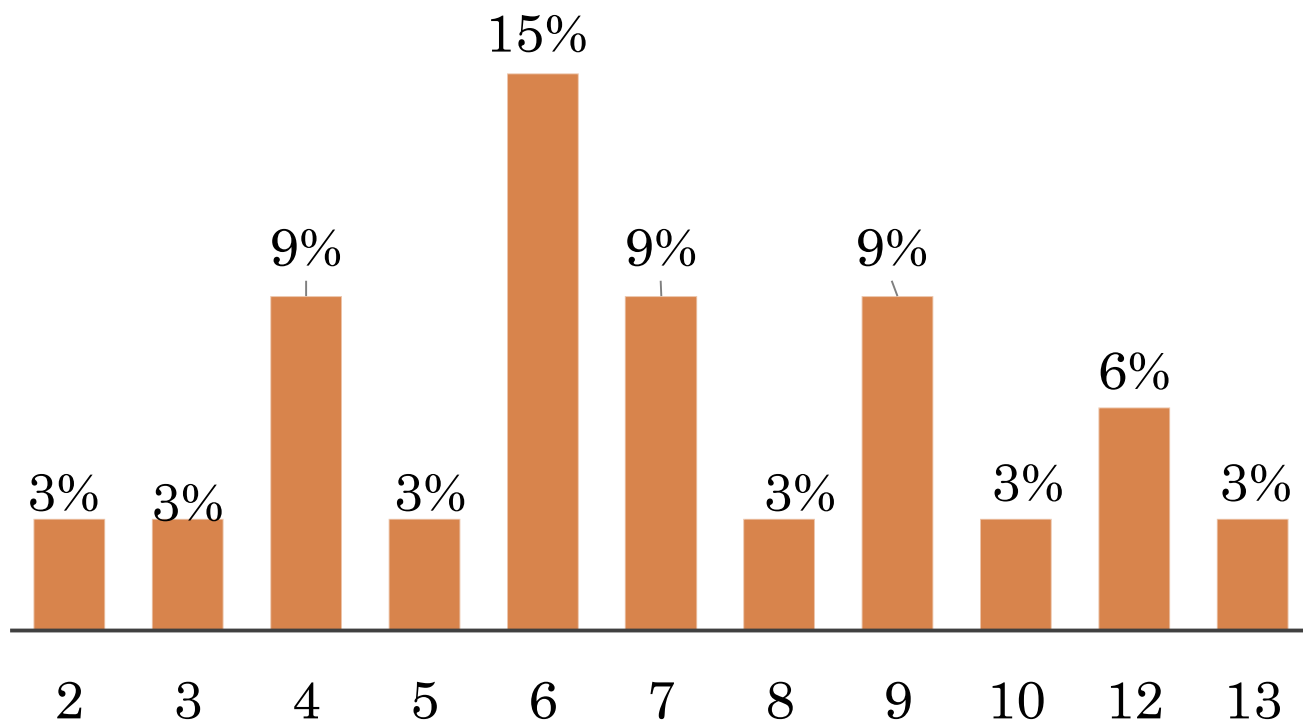
RETROSTERNAL PAIN



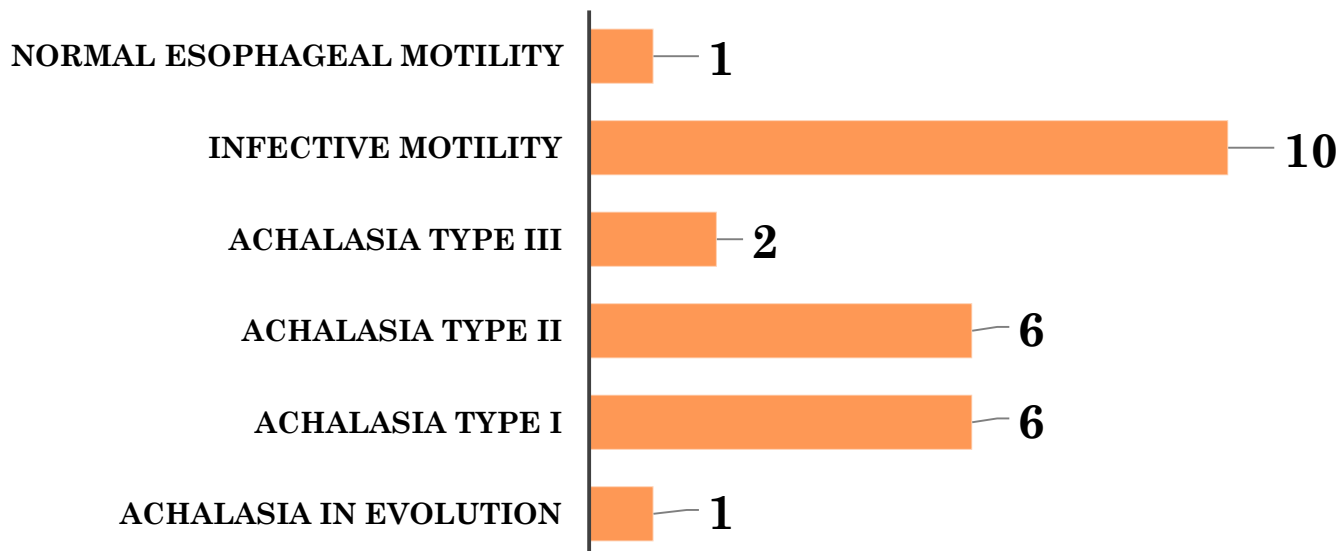
Regurgitation



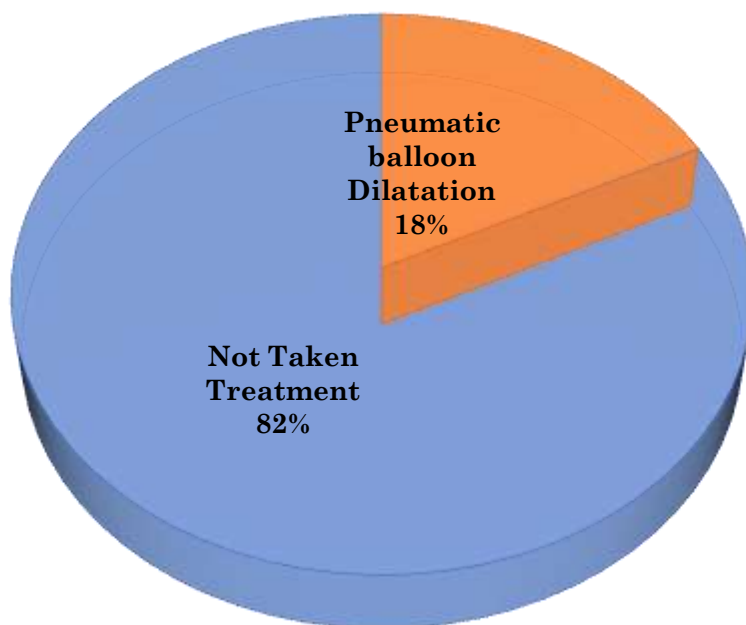
ECKARDT SCORE



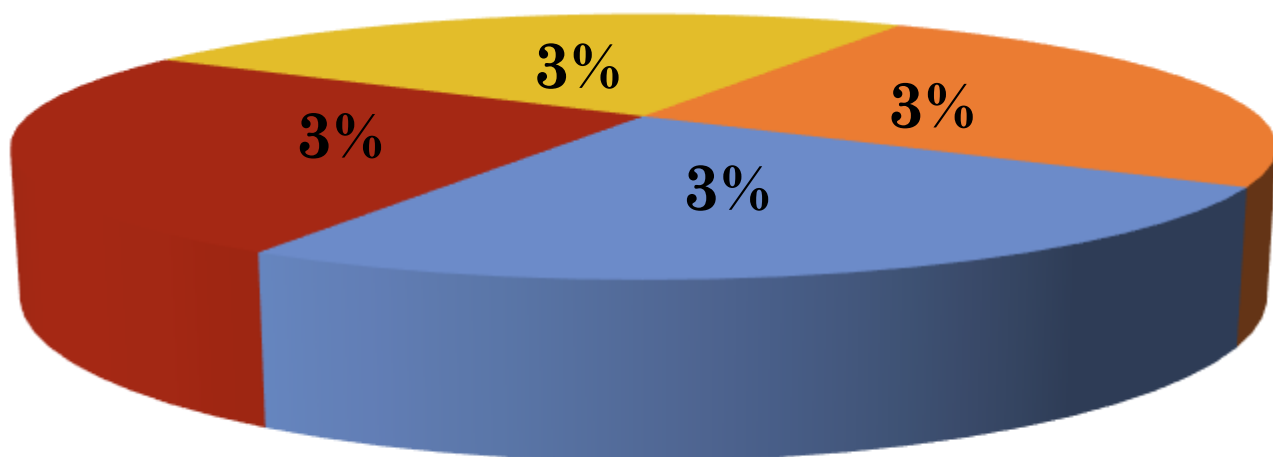
HRM DIAGNOSIS (CHICAGO CLASSIFICATION)



ACHALASIA PATIENTS WHO OPTED PNEUMETIC DILATATION IN OUR CENTRE



PRESSURE USED DURING PROCEDURE BALLOON DILATATION IN ACHALASIA PATIENTS

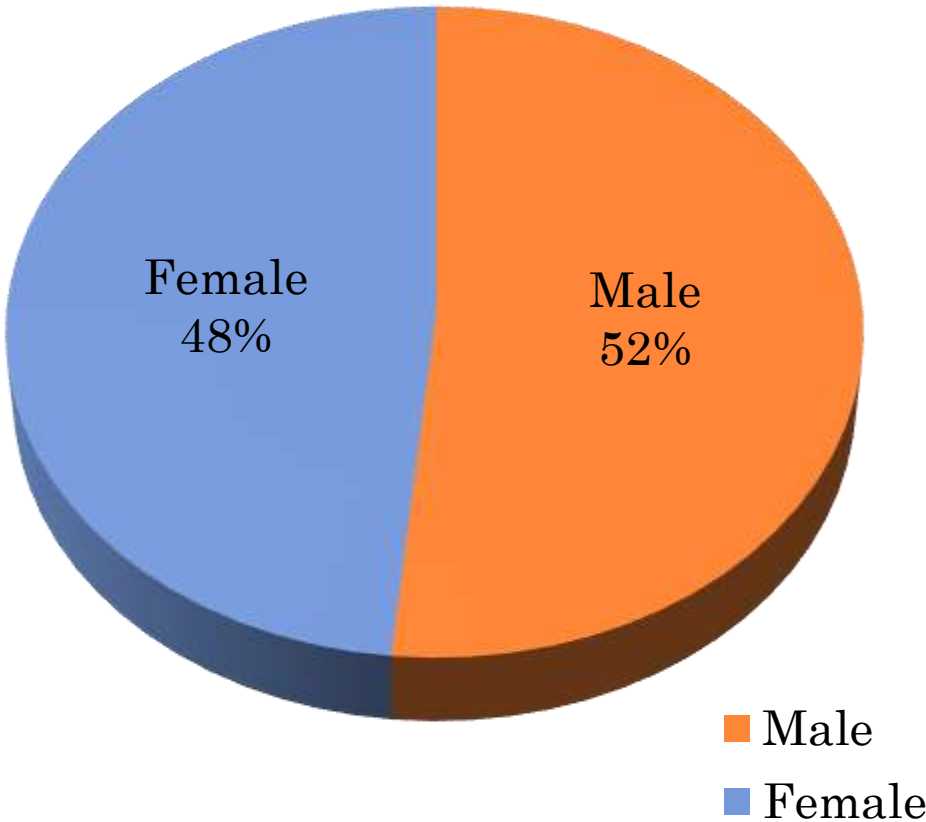


2021

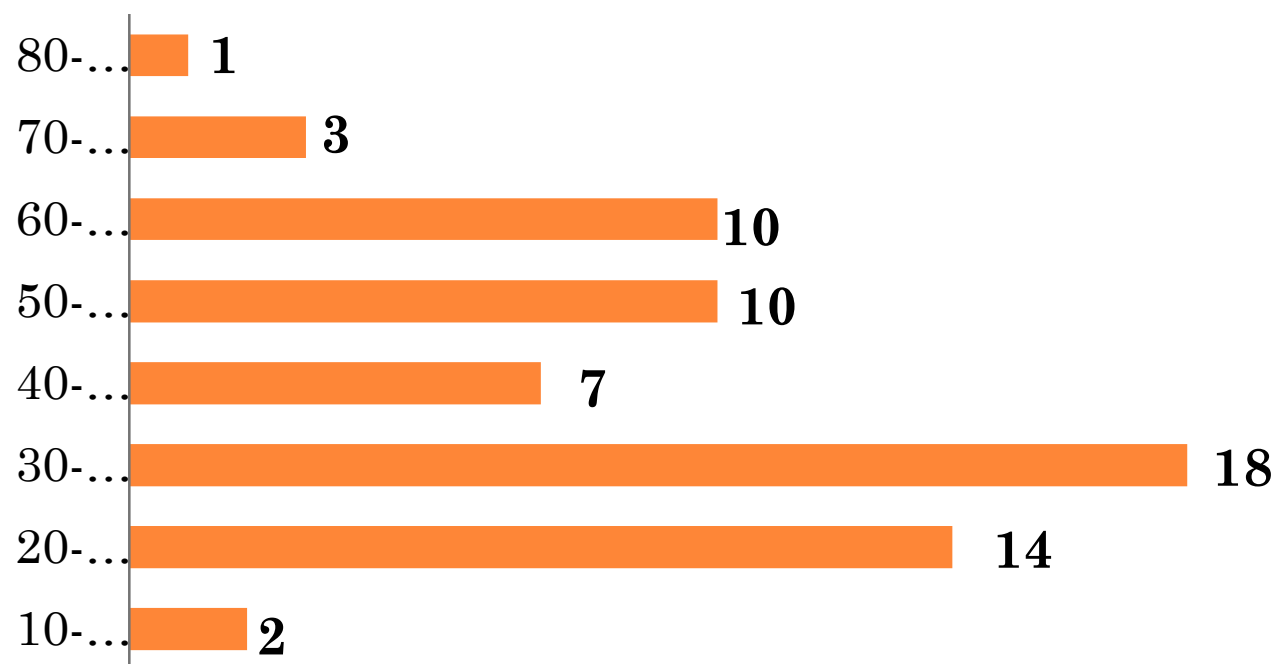
TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

Total No of Patients	64
Male	33
Female	31

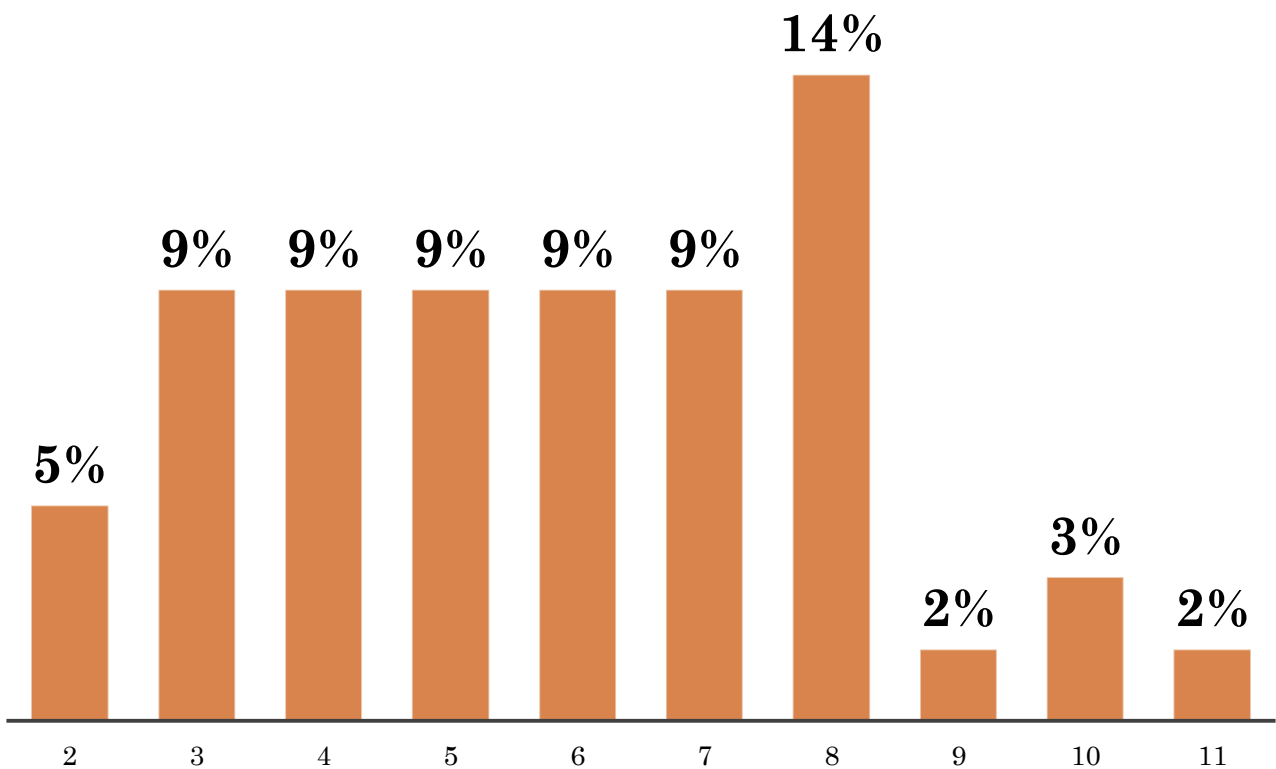
GENDER



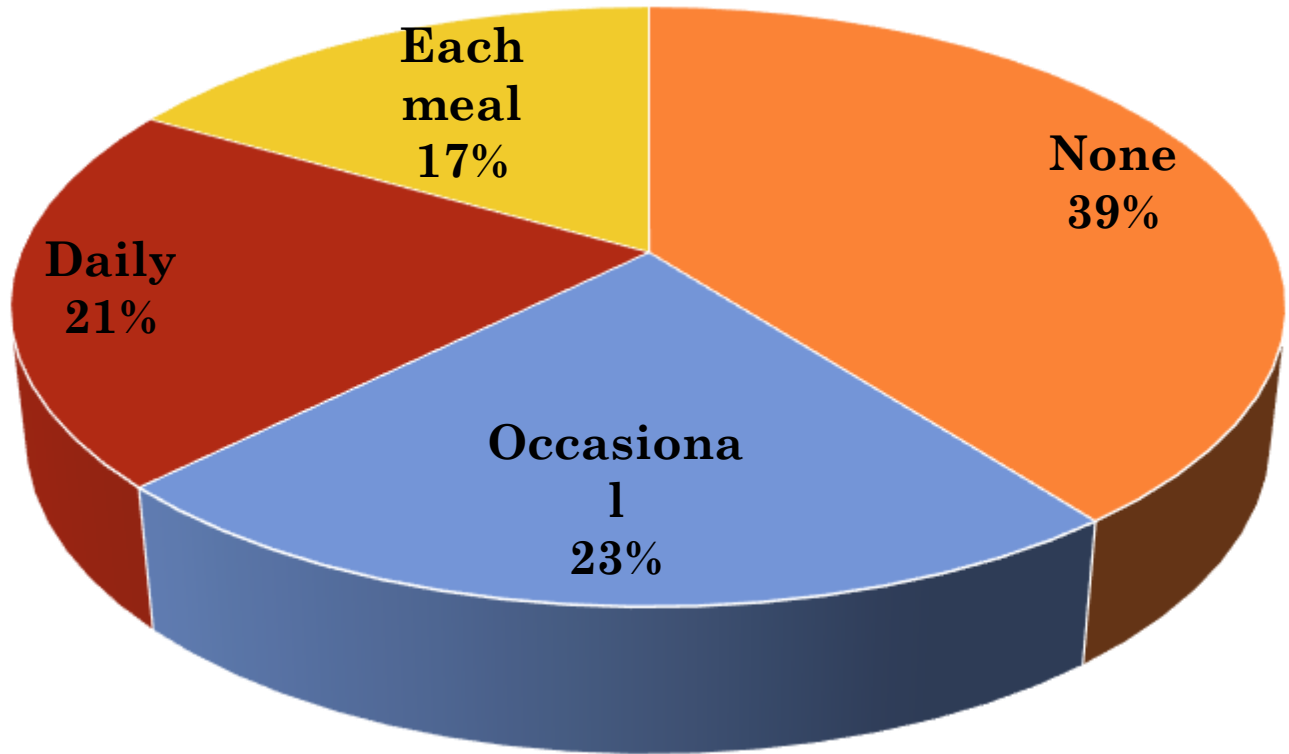
AGE WISE DISTRIBUTION



ECKARDT_SCORE

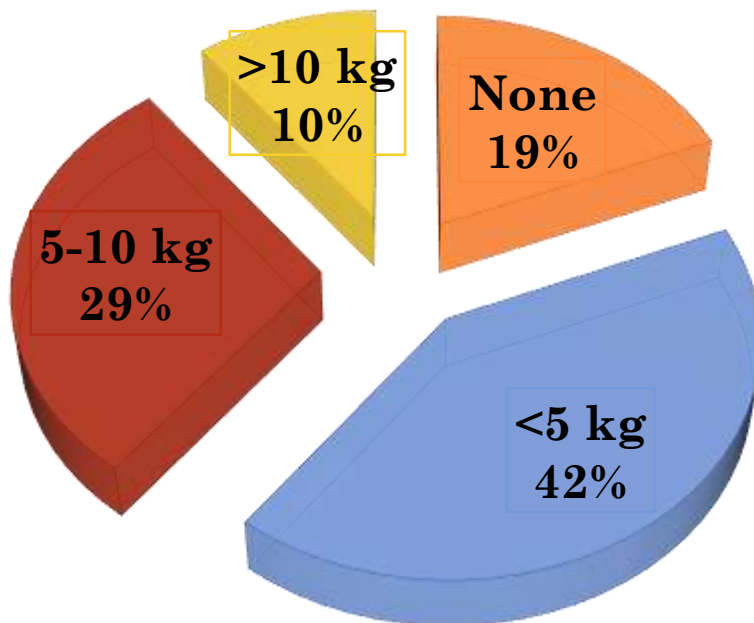


REGURGITATION

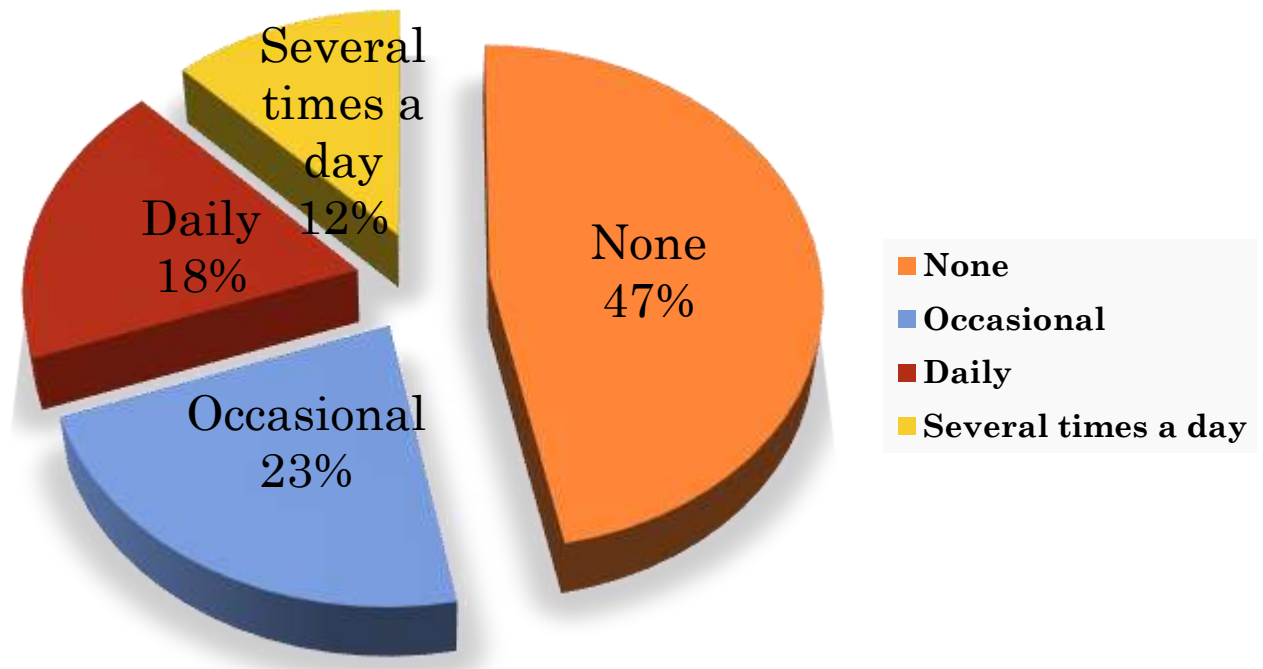


■ None ■ Occasional ■ Daily ■ Each meal

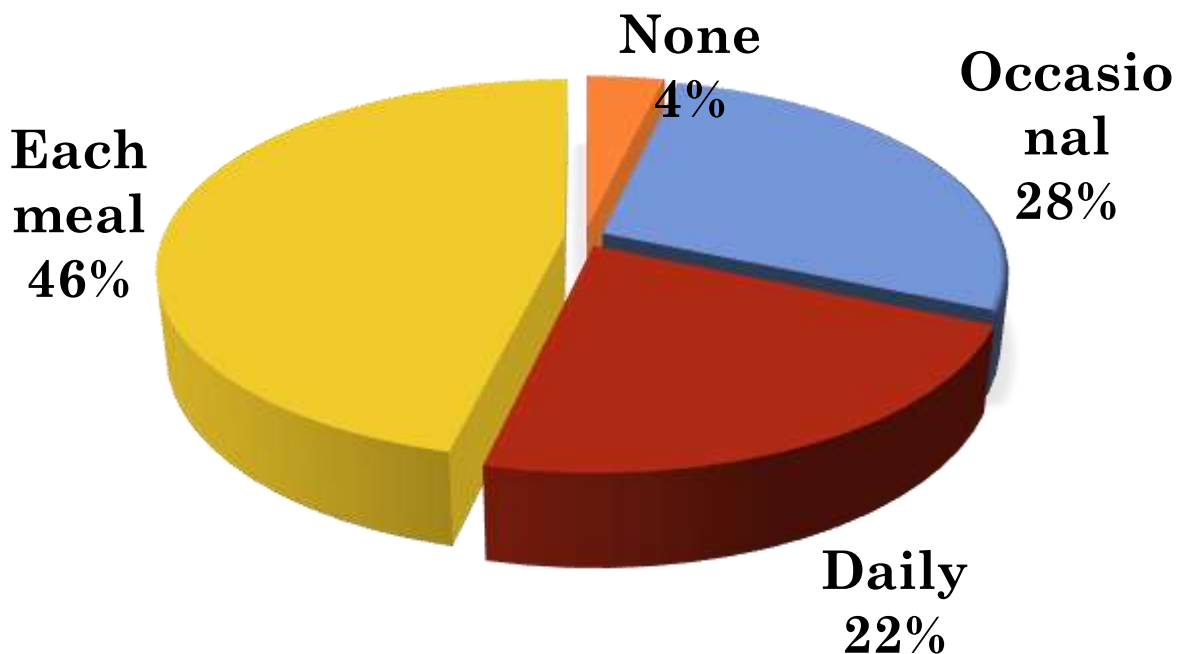
WEIGHT LOSS



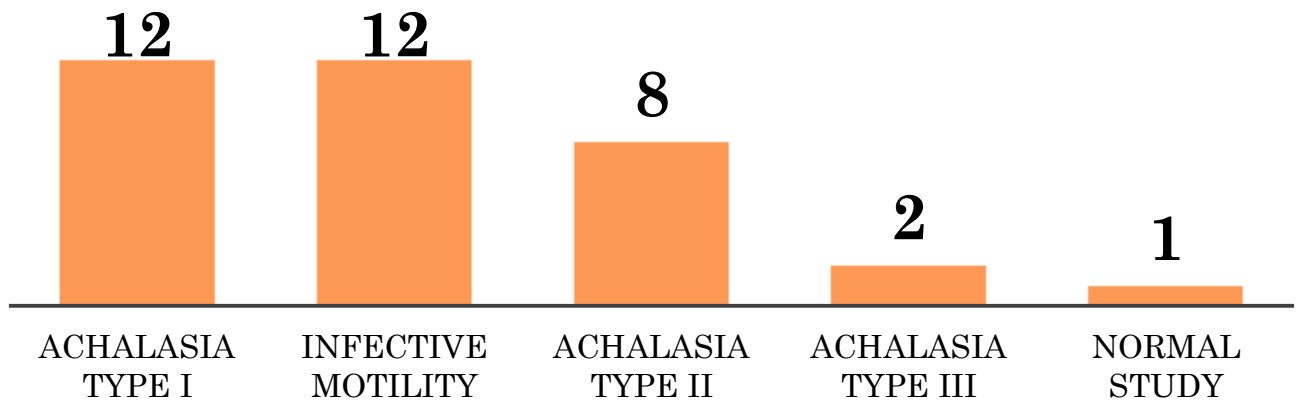
RETROSTERNAL PAIN



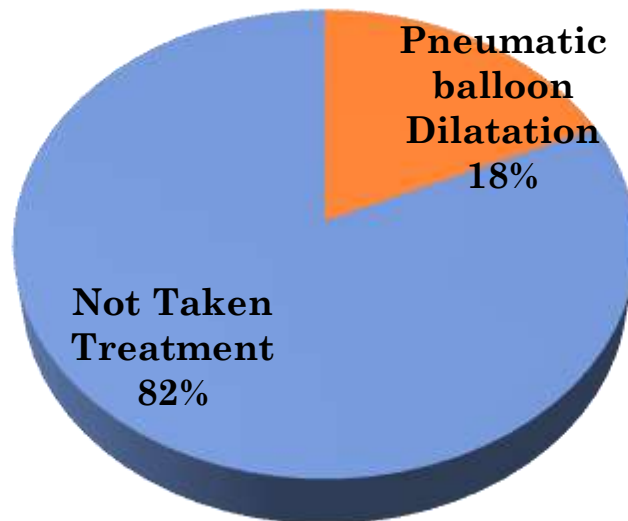
PRESENTING COMPLAINT (DYSPHAGIA SEVERITY)



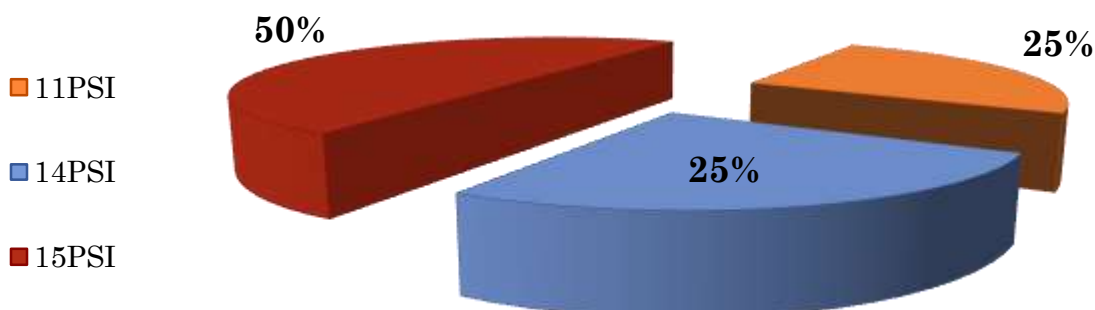
HRM_DIAGNOSIS (CHICAGO CLASSIFICATION)



ACHALASIA PATIENTS WHO OPTED PNEUMETIC DILATATION IN OUR CENTRE



PRESSURE USED DURING PROCEDURE BALLOON DILATATION IN ACHALASIA PATIENTS

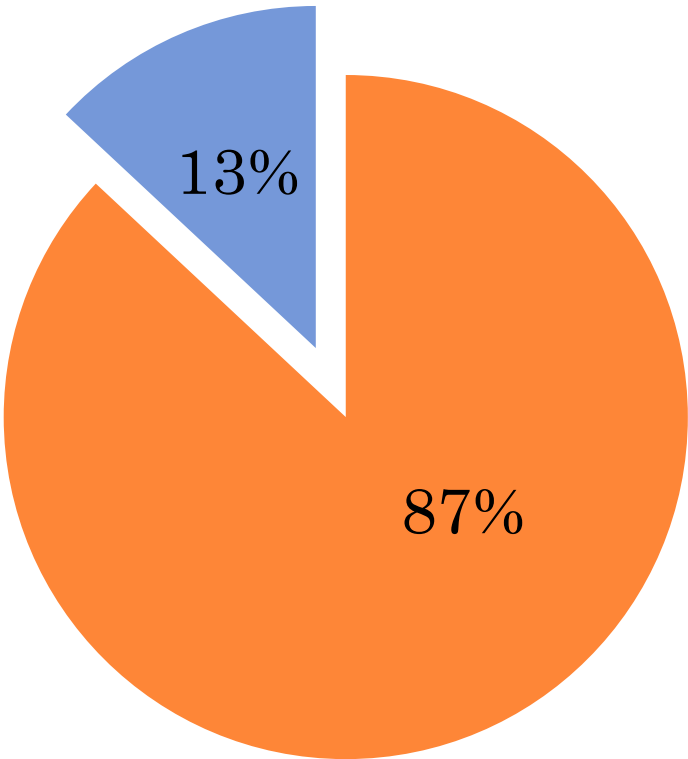


2022

TOTAL NUMBER OF PATIENTS WITH ESOPHAGEAL AND ANORECTAL MANOMETRY DISTRIBUTION.

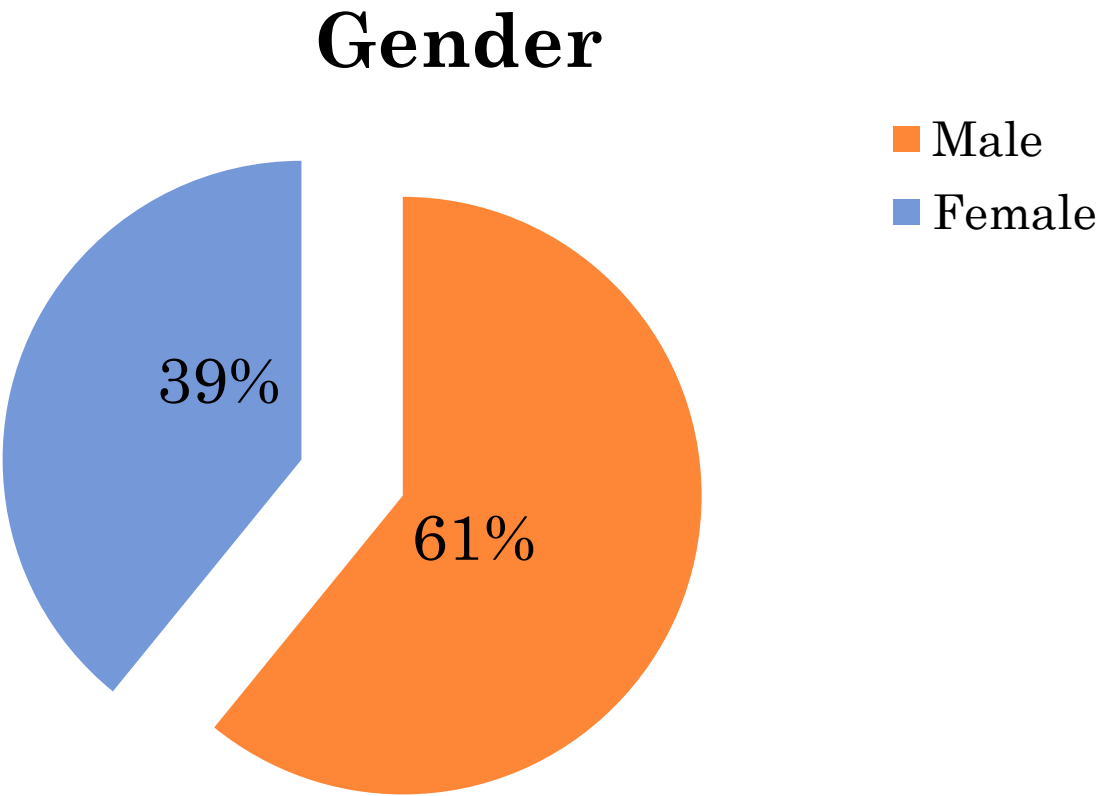
Total No of Patients	23
Esophageal Manometry	20
Anorectal Manometry	03

■ Esophageal Manometry ■ Anorectal Manometry

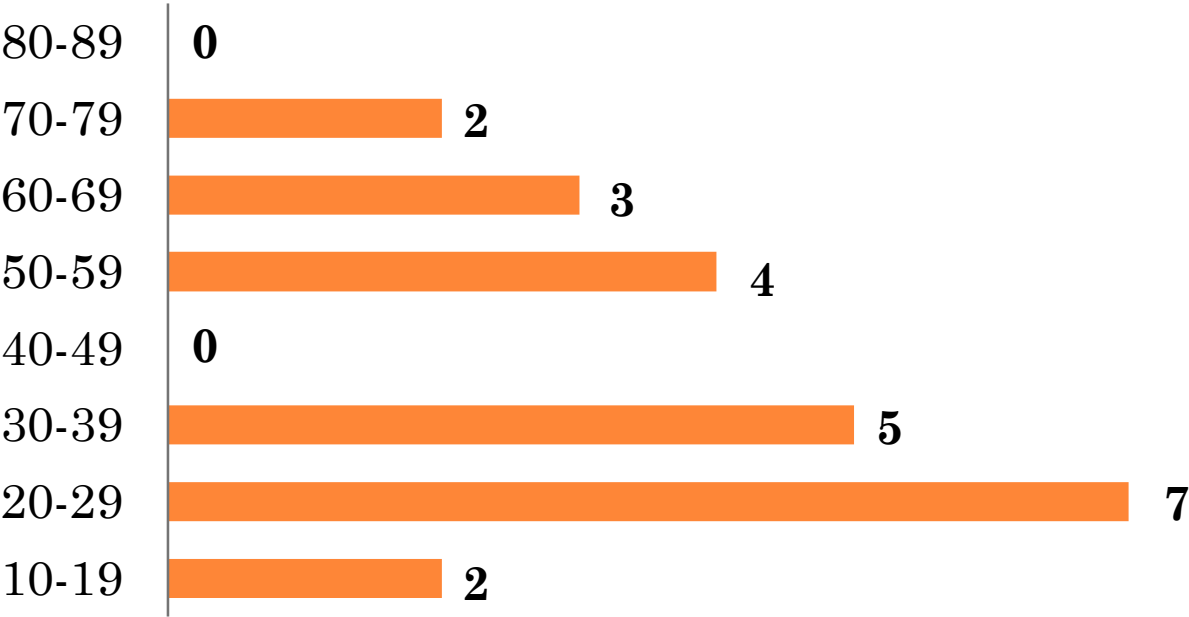


TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION.

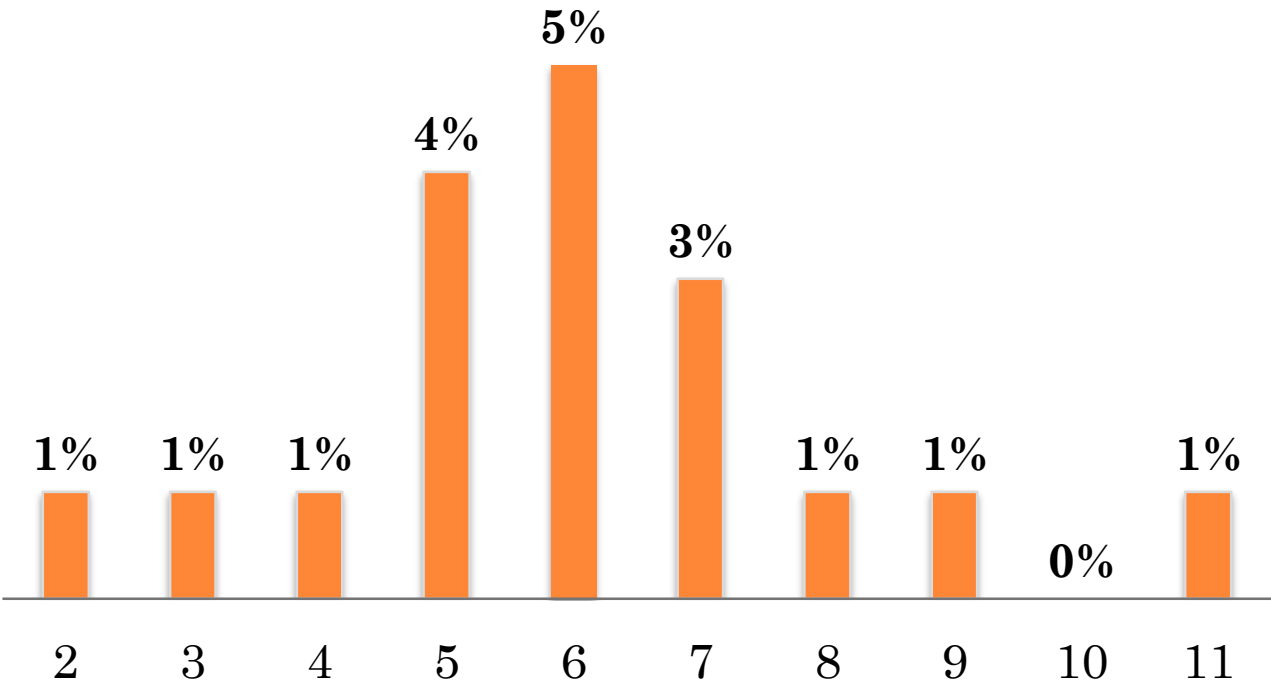
Total No of Patients	23
Male	14
Female	09



AGE WISE DISTRIBUTION

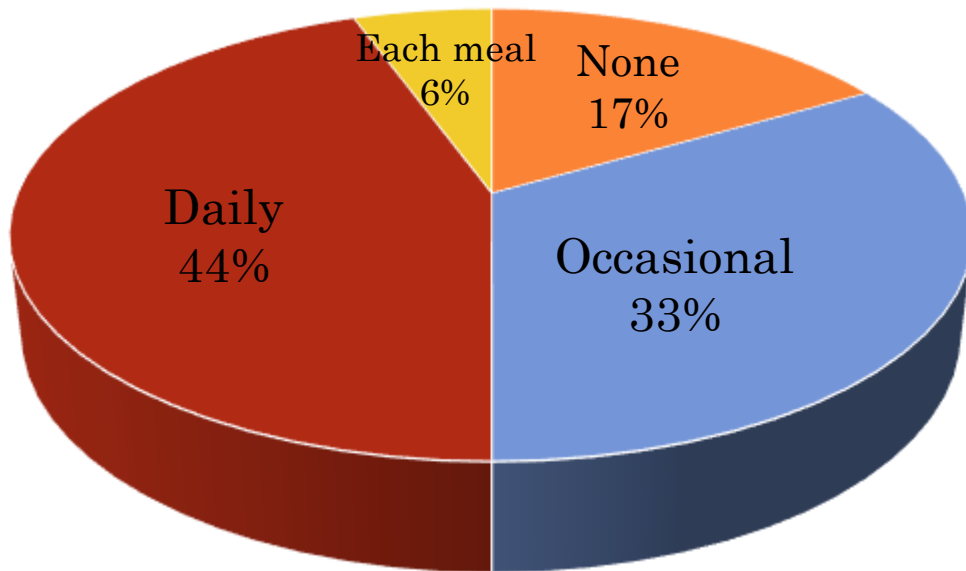


ECKARDT SCORE



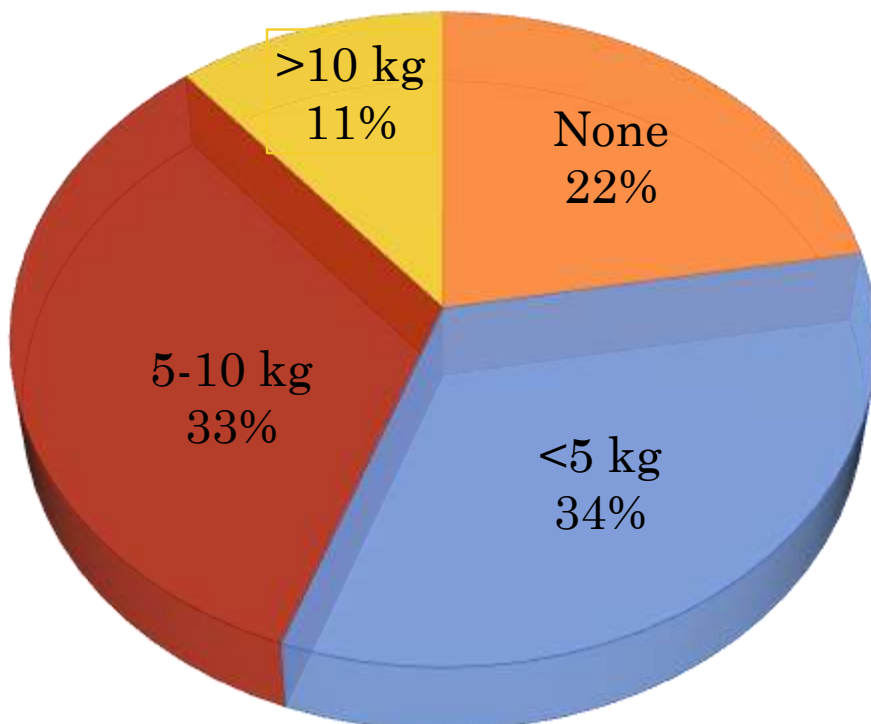
PRESENTING COMPLAINT

REGURGITATION



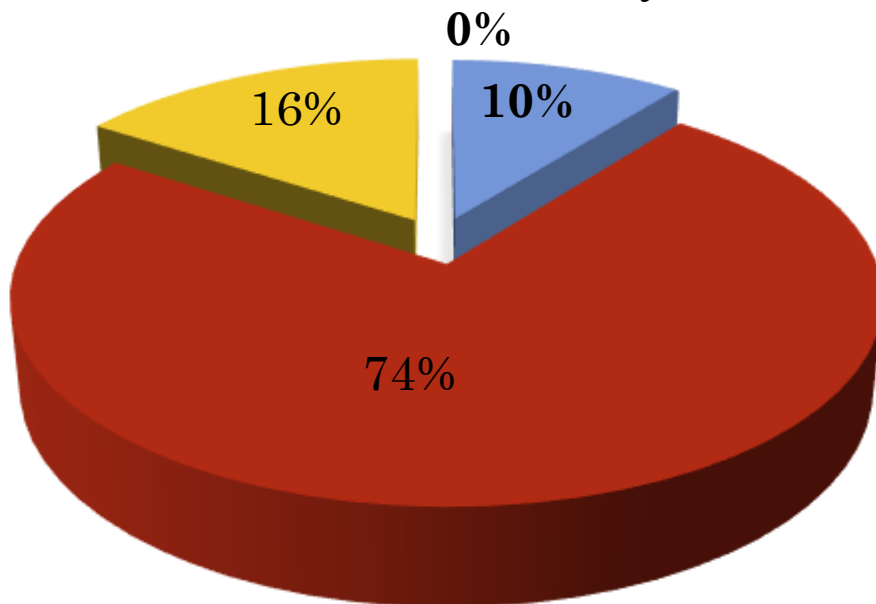
None Occasional Daily Each meal

WEIGHT LOSS

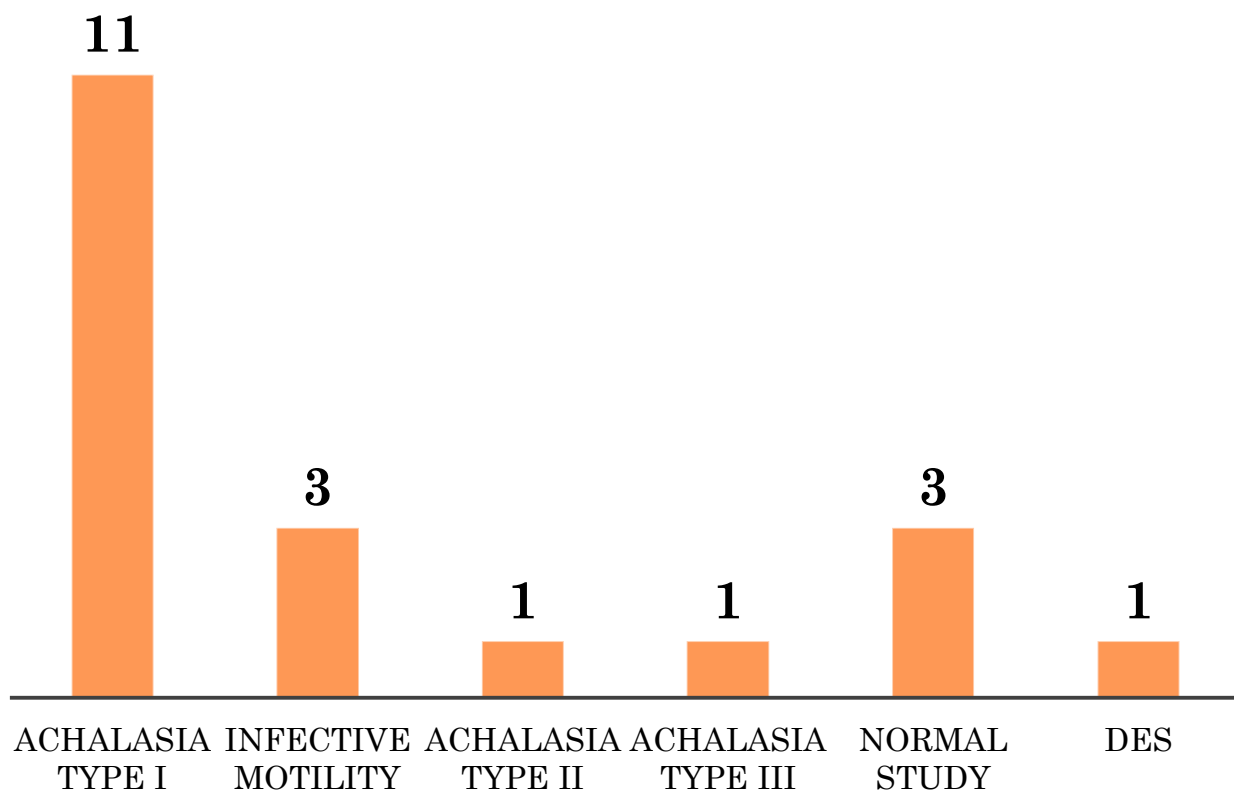


DYSPHAGIA SEVERITY

None Occasional Daily Each meal

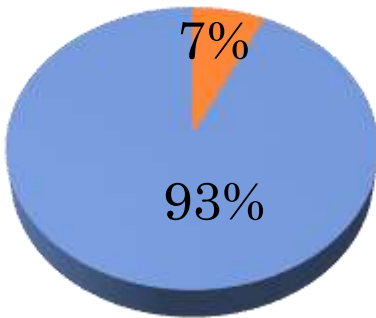


HRM DIAGNOSIS (CHICAGO CLASSIFICATION)

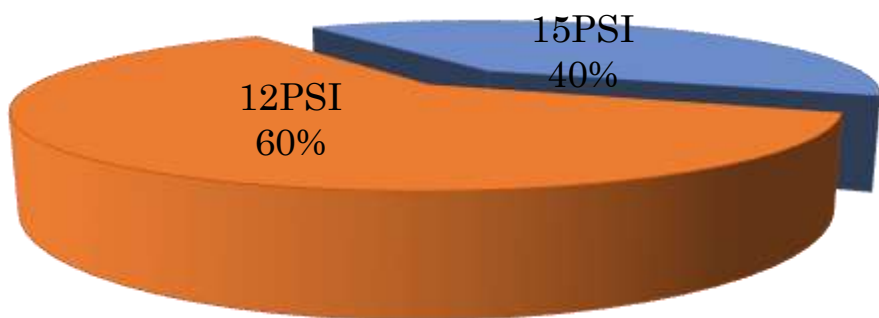


ACHALASIA PATIENTS WHO OPTED PNEUMETIC DILATATION IN OUR CENTRE

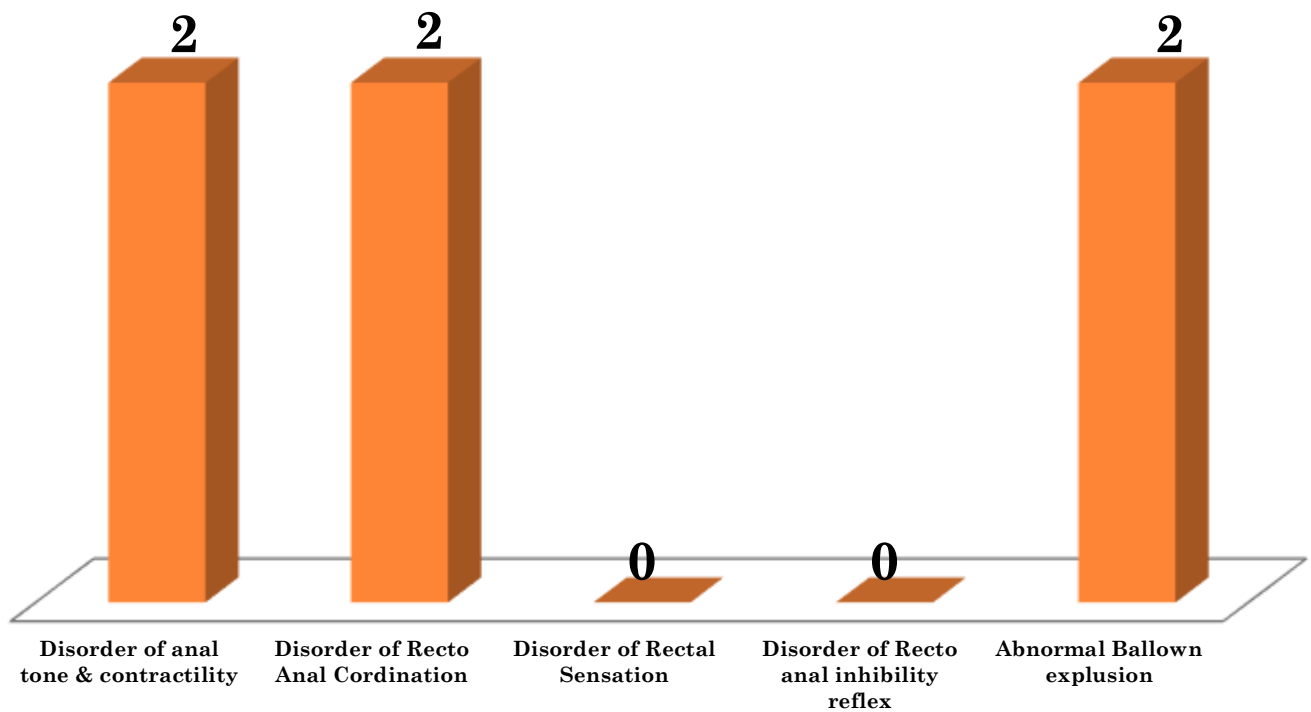
■ Pneumatic balloon Dilatation ■ Not Taken Treatment



PRESSURE USED DURING PROCEDURE BALLOON DILATATION IN ACHALASIA PATIENTS



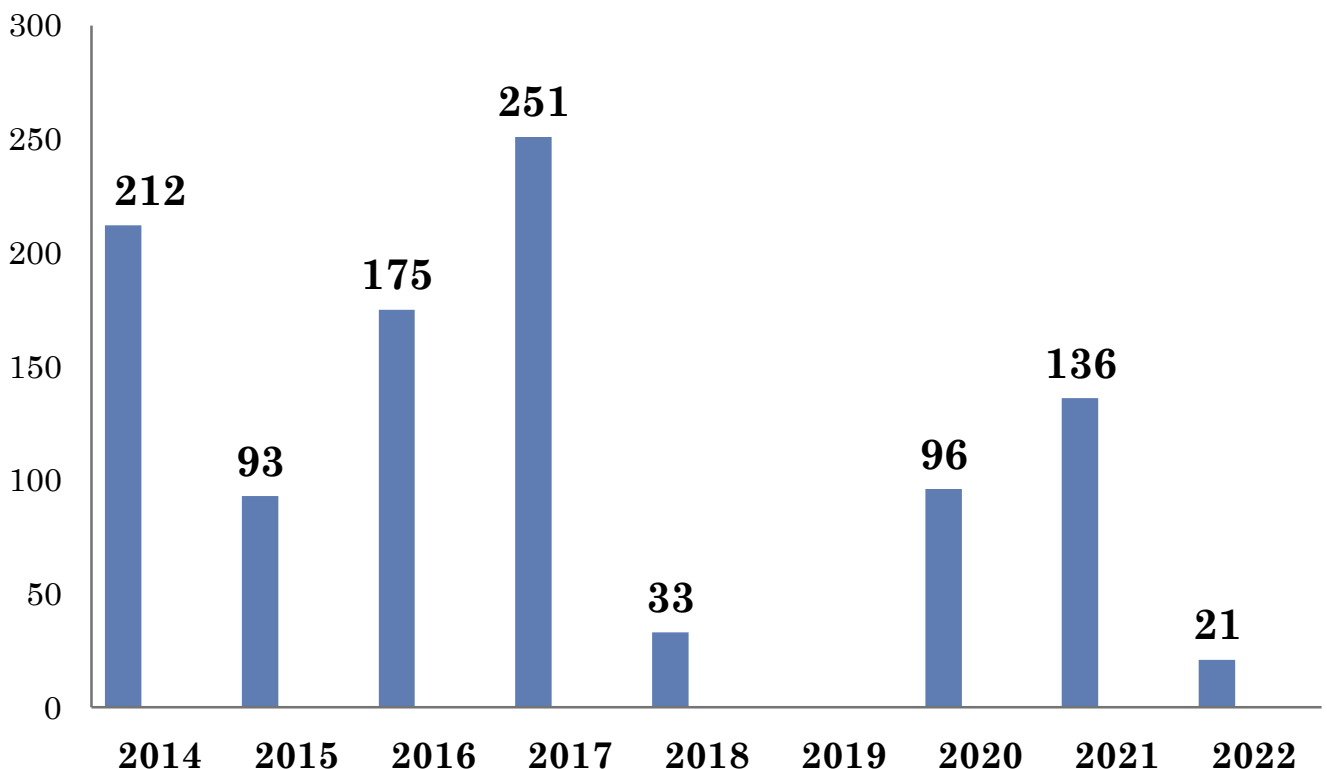
ARM DIAGNOSIS



Fibro Scan Audit

Liver biopsy has long been the gold standard to stage fibrosis, however over the last decade it has been replaced by the non-invasive technique, that works by measuring shear wave velocity. Reliability and reproducibility have been well characterized for elastography with Fibro scan, and it is important to ensure that these technical requirements are achieved to make the scan results valid. Particularly, a valid result requires 8—10 measurements with a 60% success rate and an interquartile range(IQR) less than 0.3.

Our center was the first public sector to start this facility. This year the equipment has been upgraded to Echosens 502 that apart from liver stiffness measurement can also determine steatosis quantification.

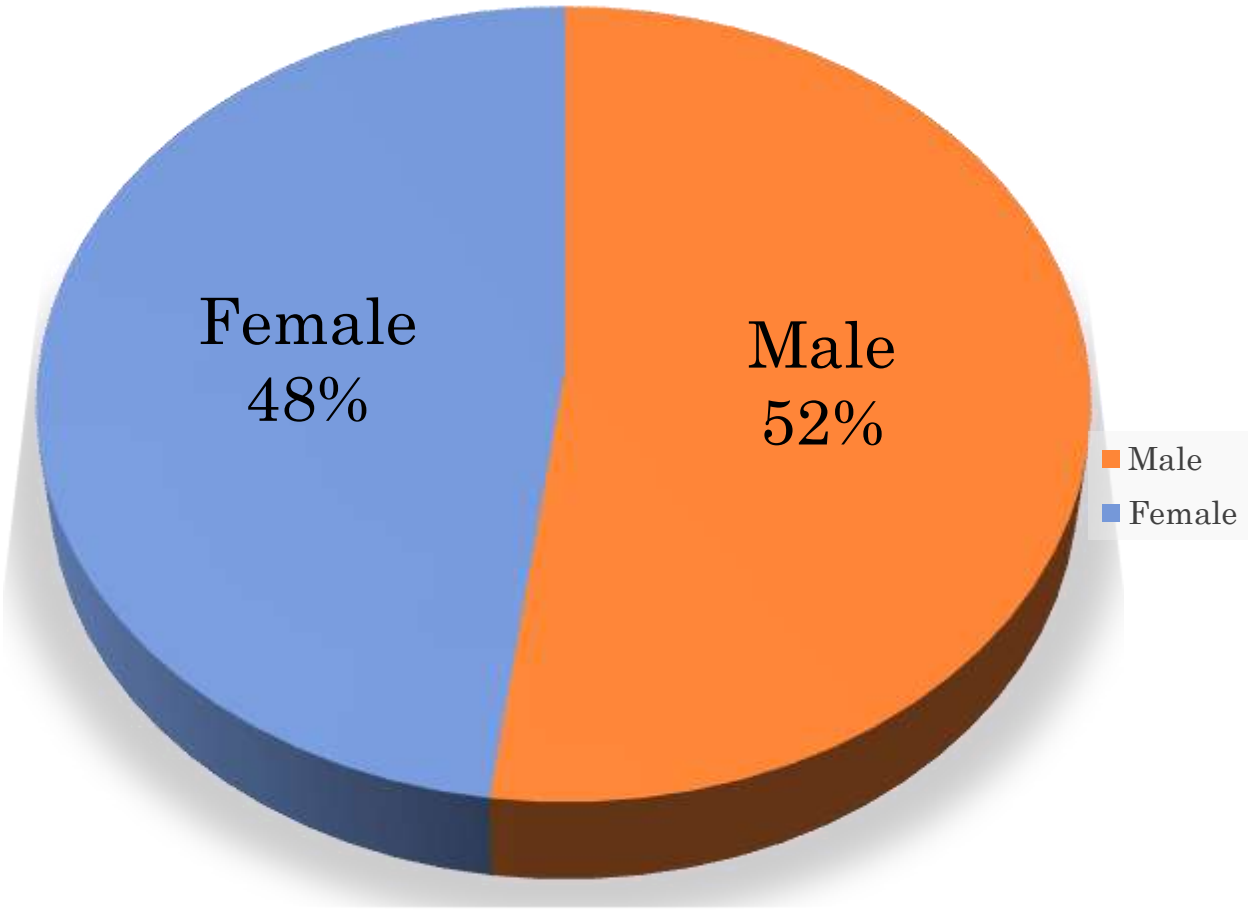


2020

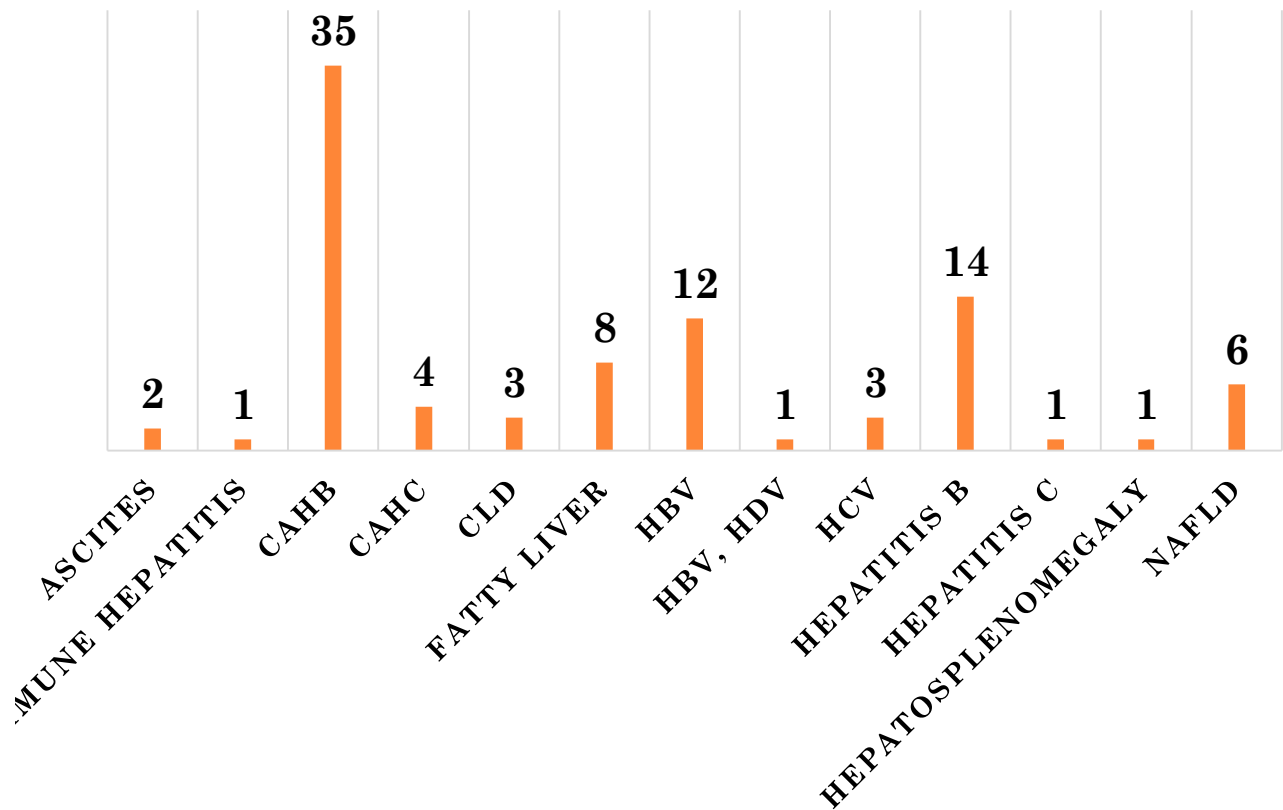
TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

TOTAL NO OF PATIENTS	96
MALE	50
FEMALE	46

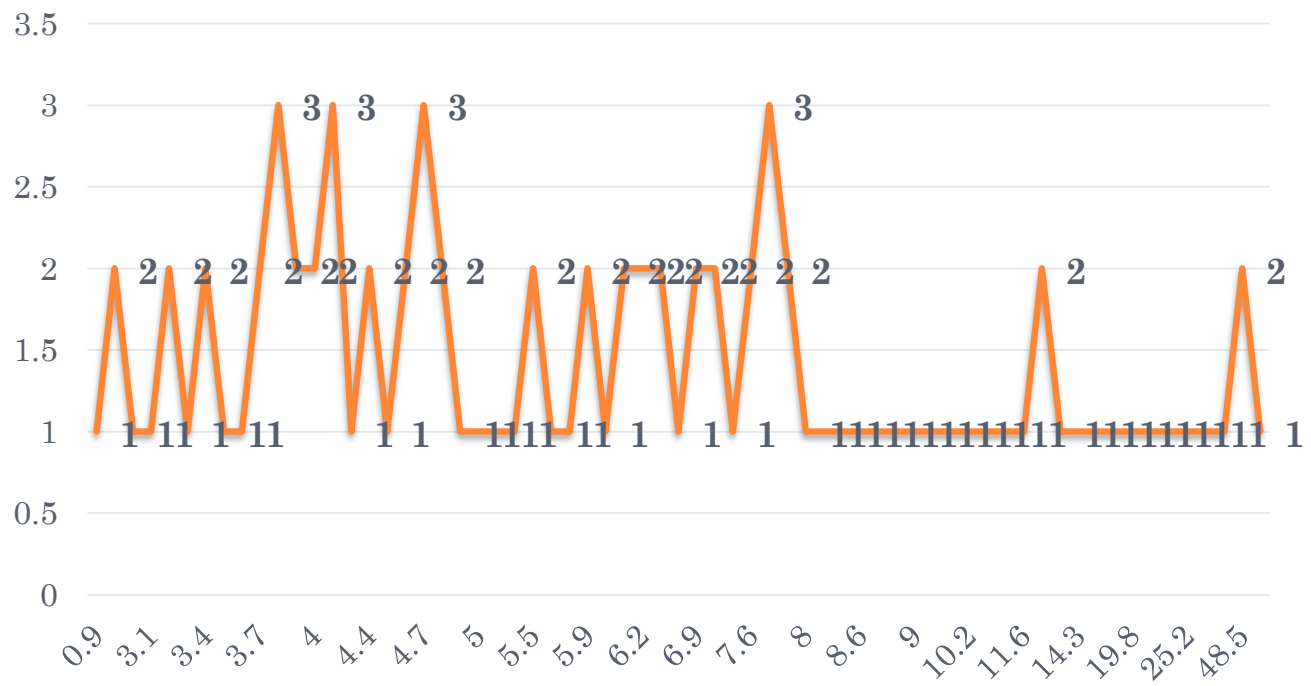
GENDER



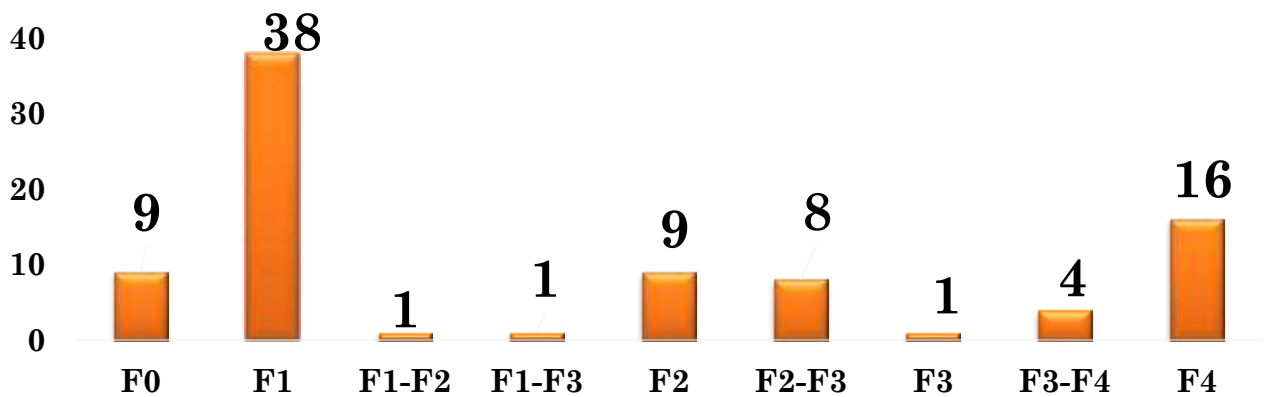
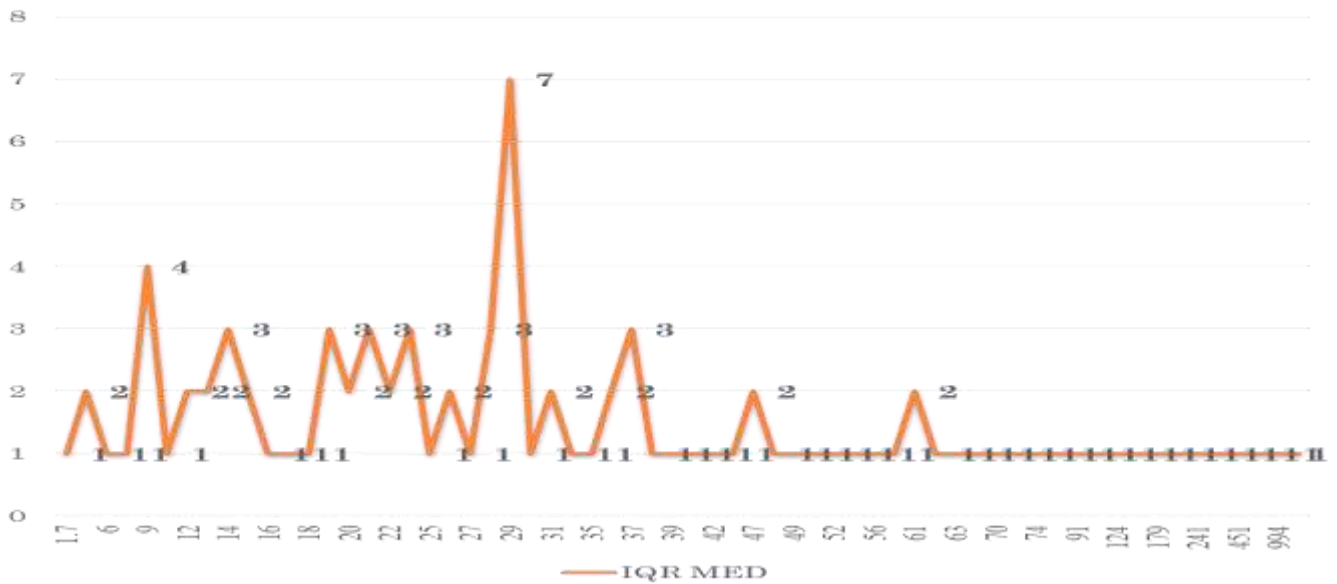
INDICATION



LSM



0.1
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2.2
2.4
2.8
3.2
3.4
3.8
4.7
5.8
6.9
7.7
8.9
11.5
15
17
17.5
19.4
26.6
58.3
71.6

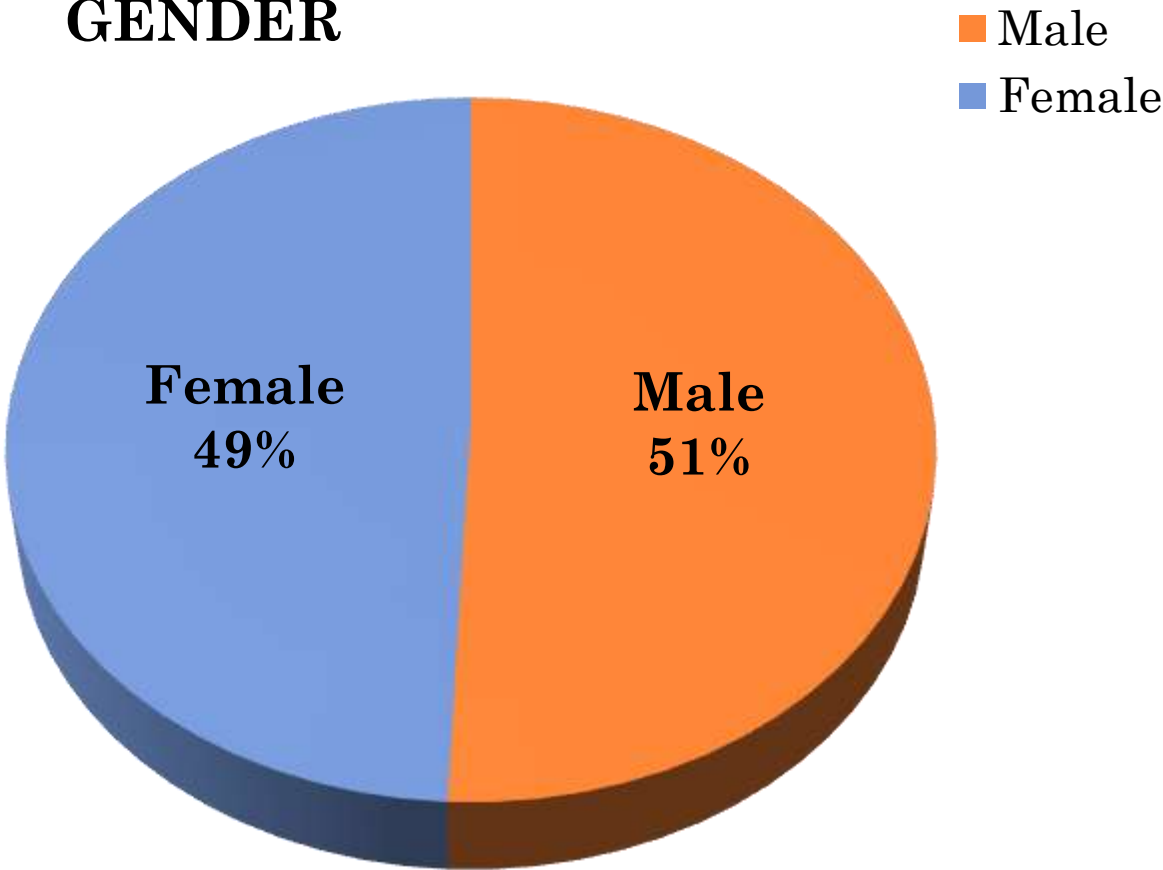


2021

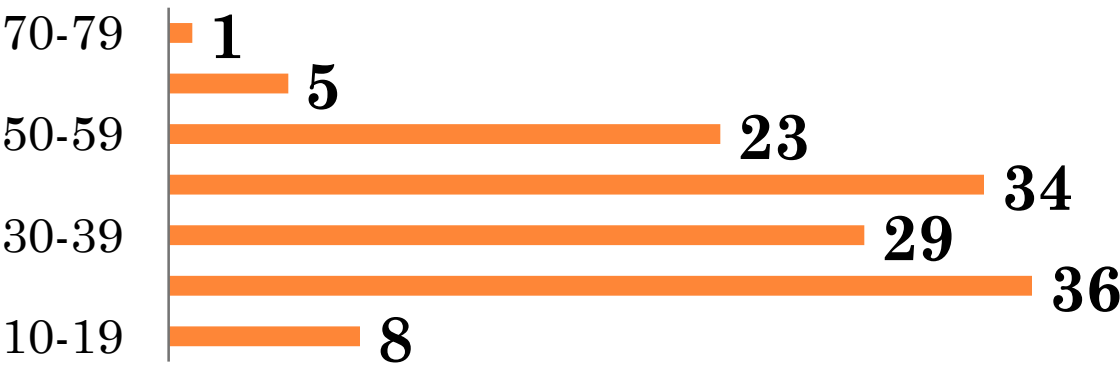
TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

TOTAL NO OF PATIENTS	136
MALE	69
FEMALE	67

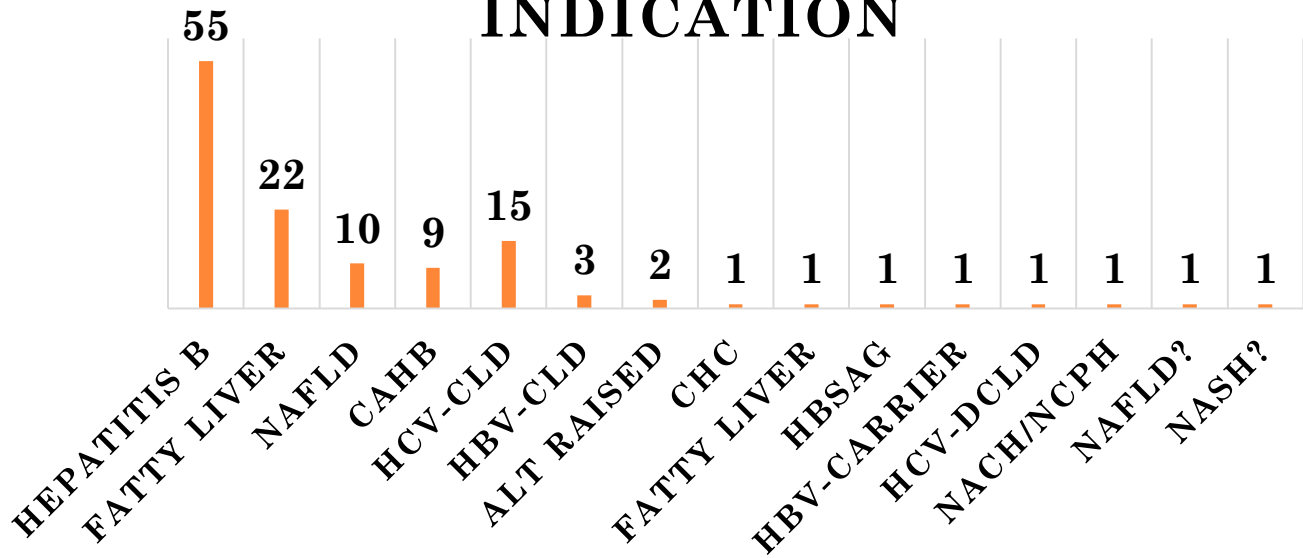
GENDER



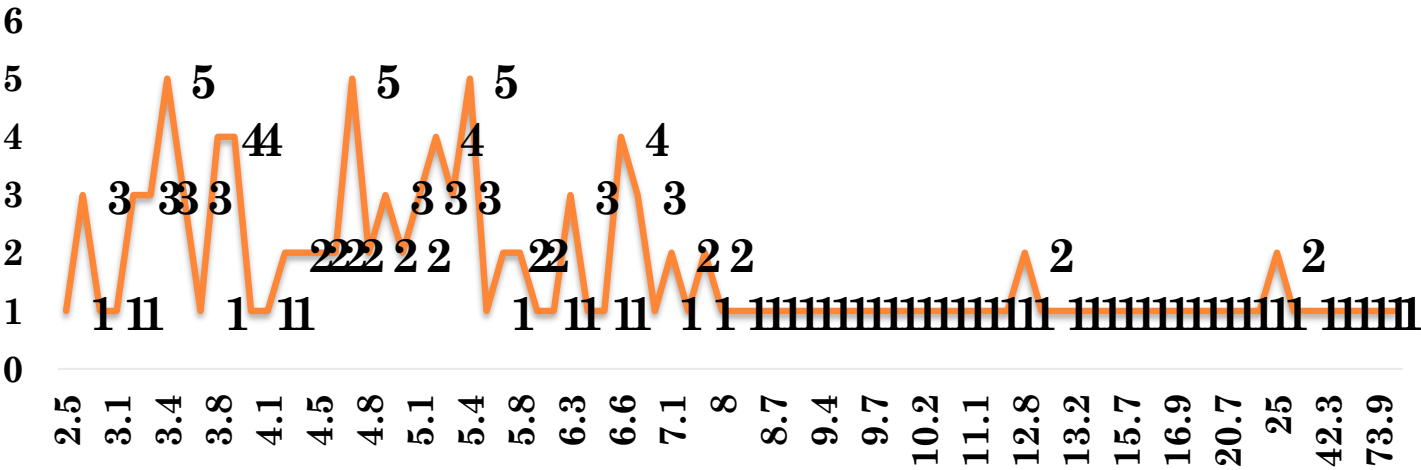
AGE WISE DISTRIBUTION



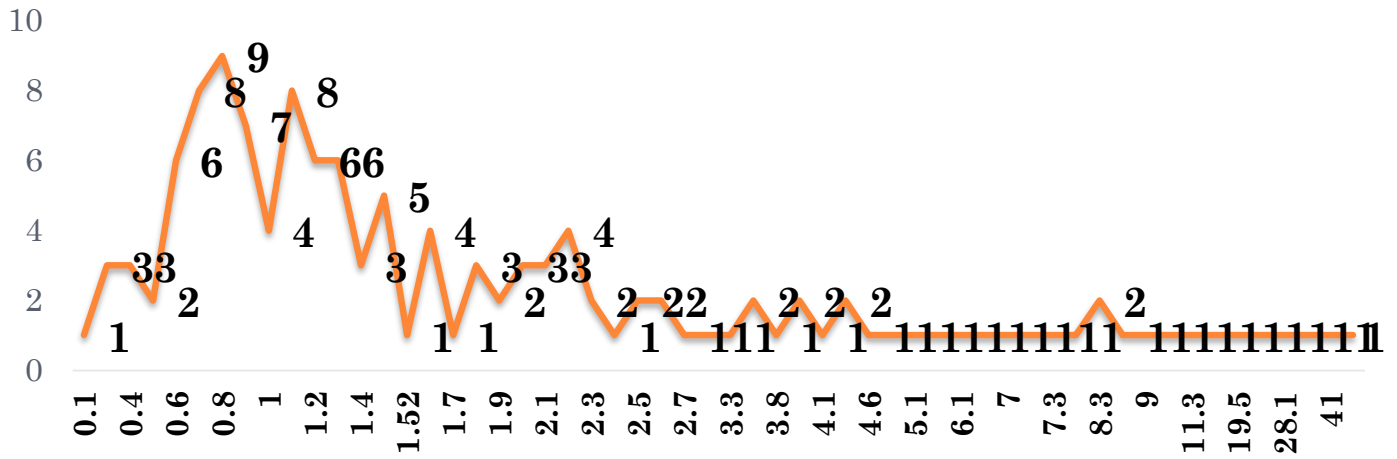
INDICATION



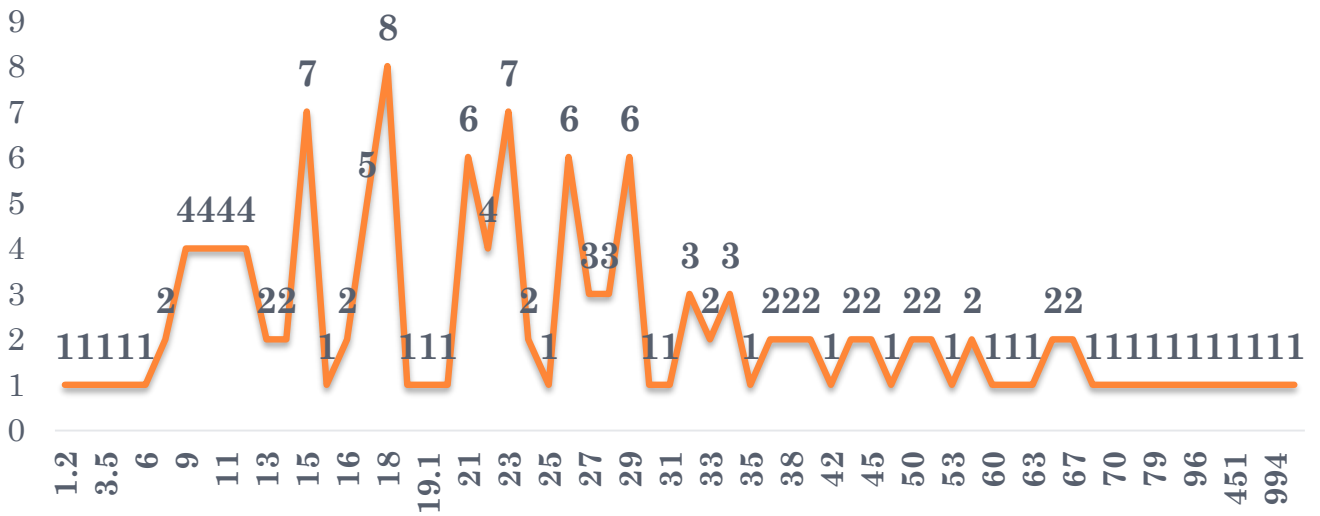
LSM



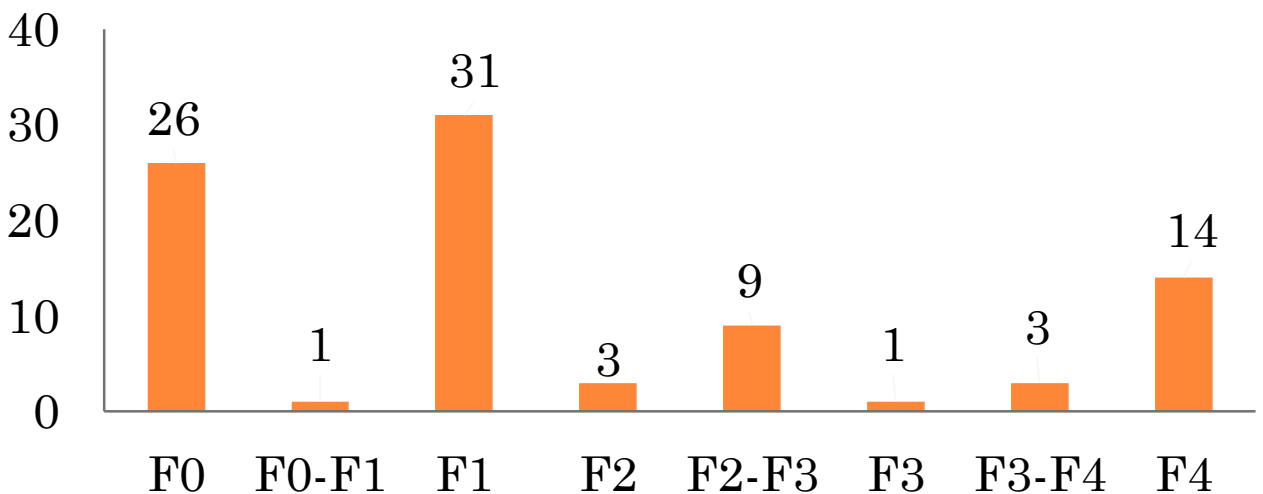
IQR



IQR MED



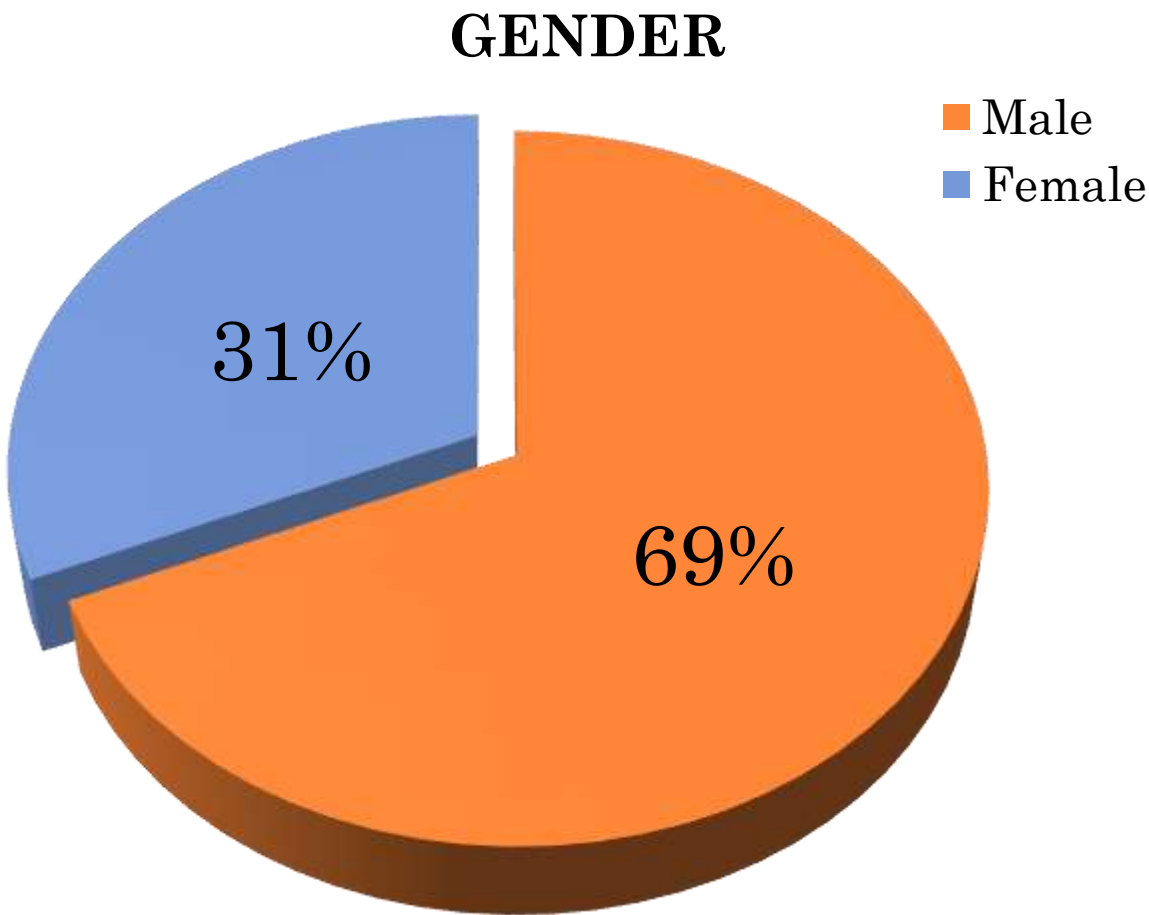
IMPRESSION



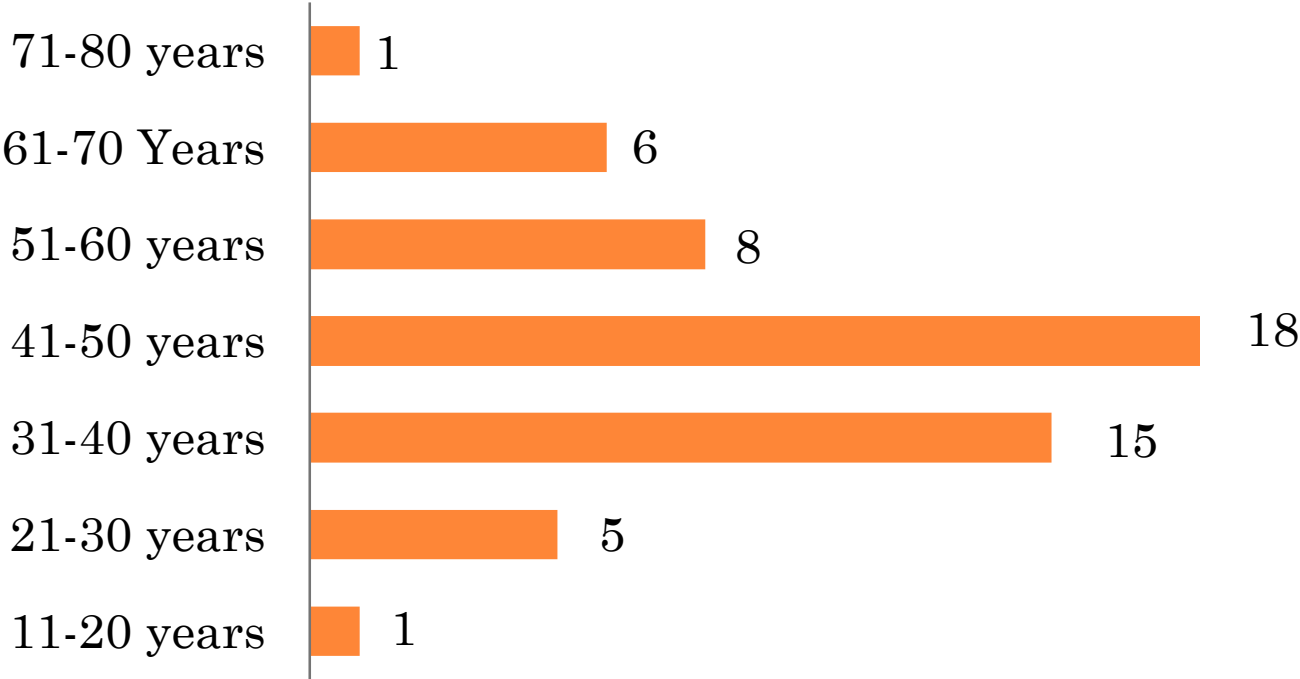
2022

**TOTAL NUMBER OF PATIENTS WITH
GENDER DISTRIBUTION.**

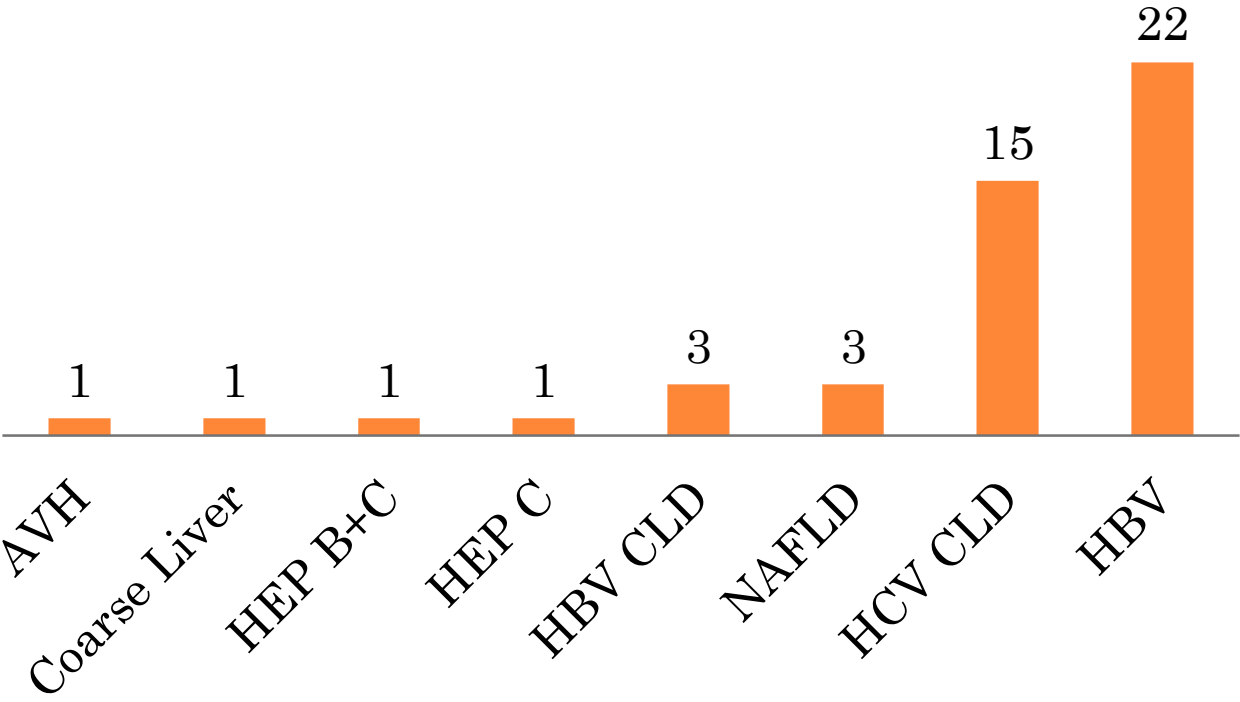
TOTAL NO OF PATIENTS	54
Male	37
Female	17



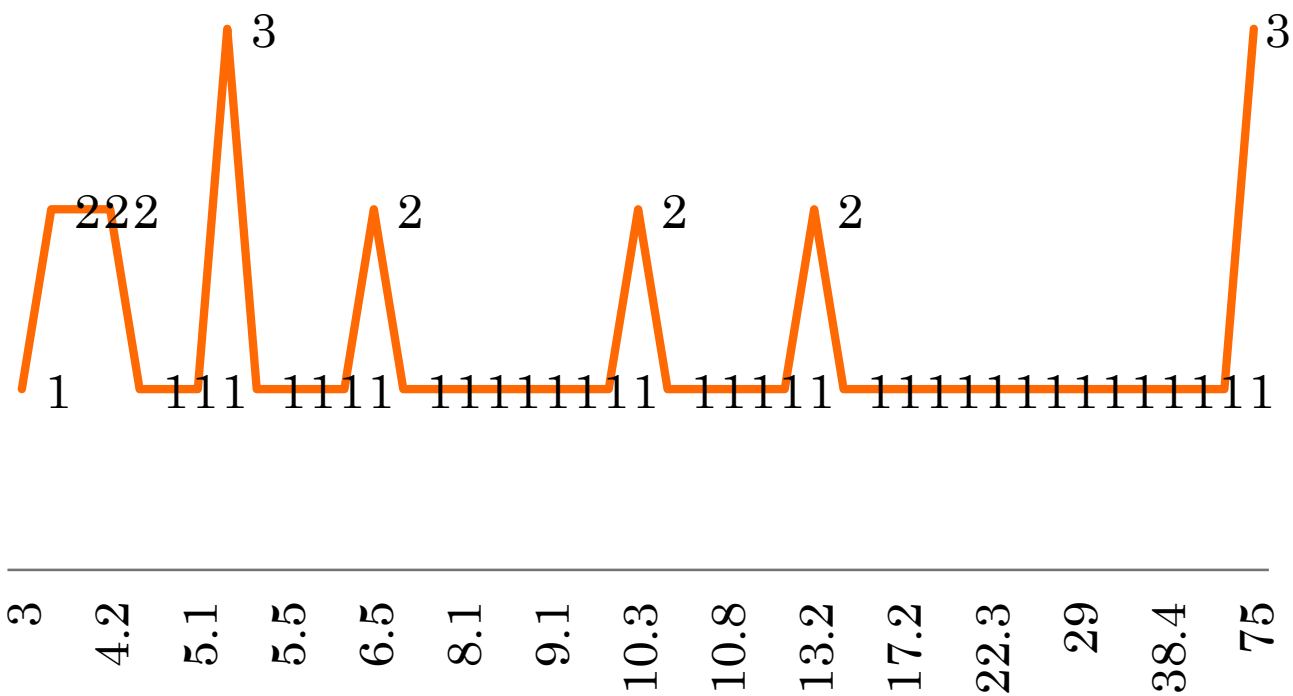
GENDER WISE DISTRIBUTION WITH INDICATION



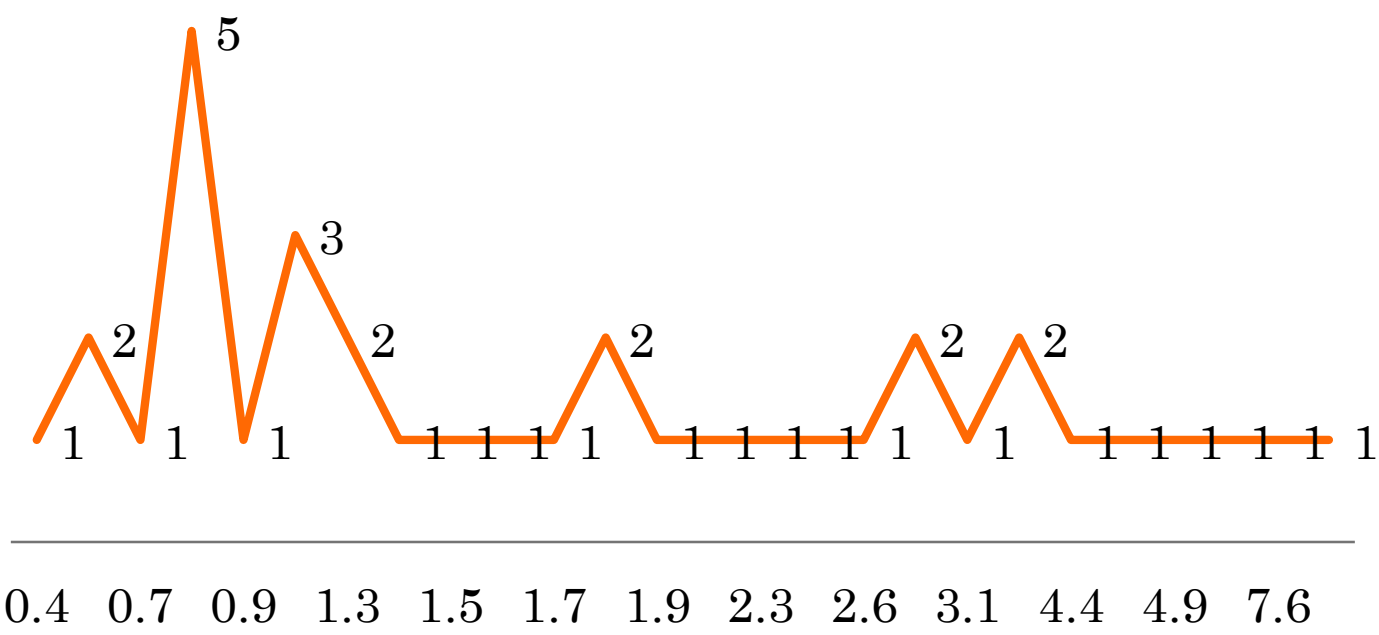
INDICATION



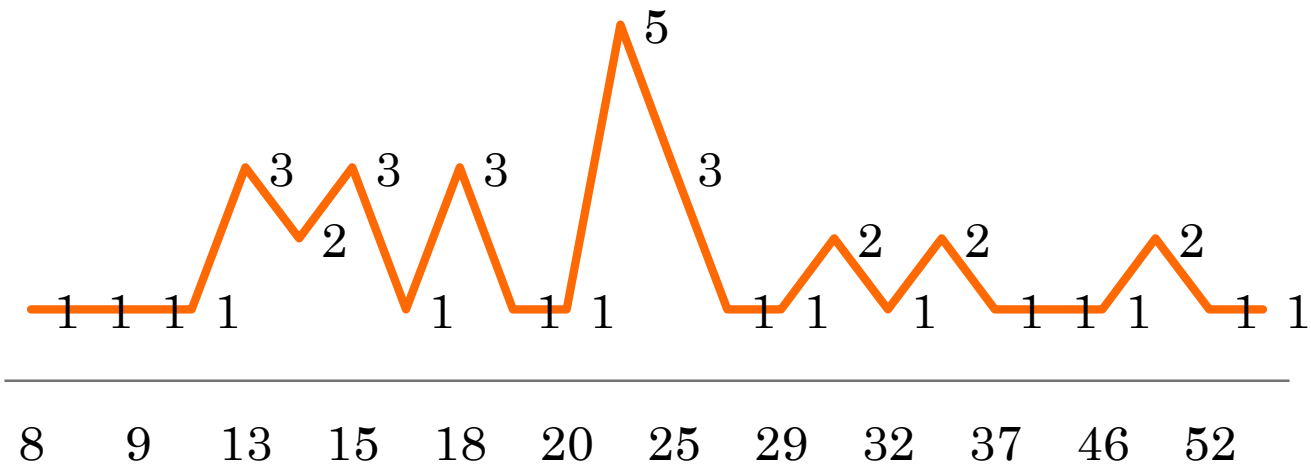
LSM



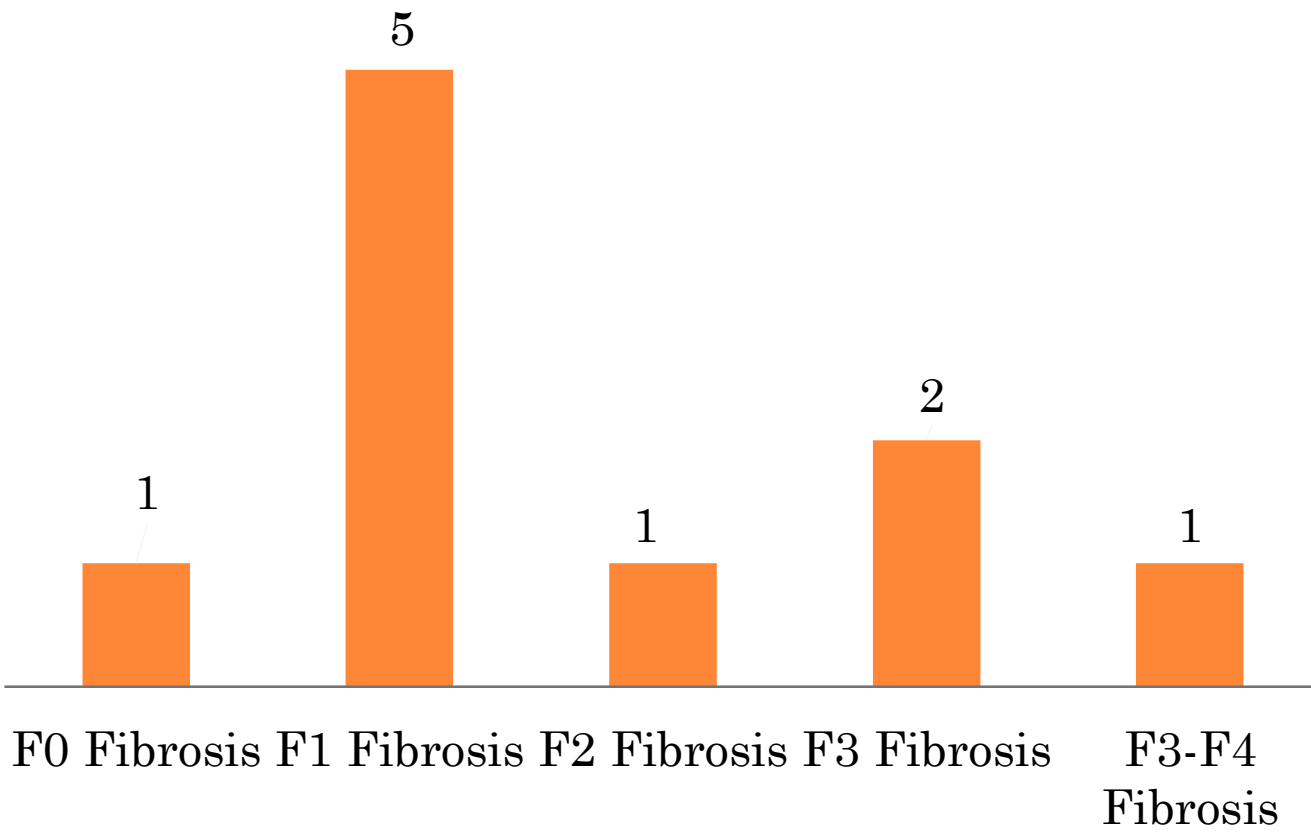
IQR



IQR MED



Impression

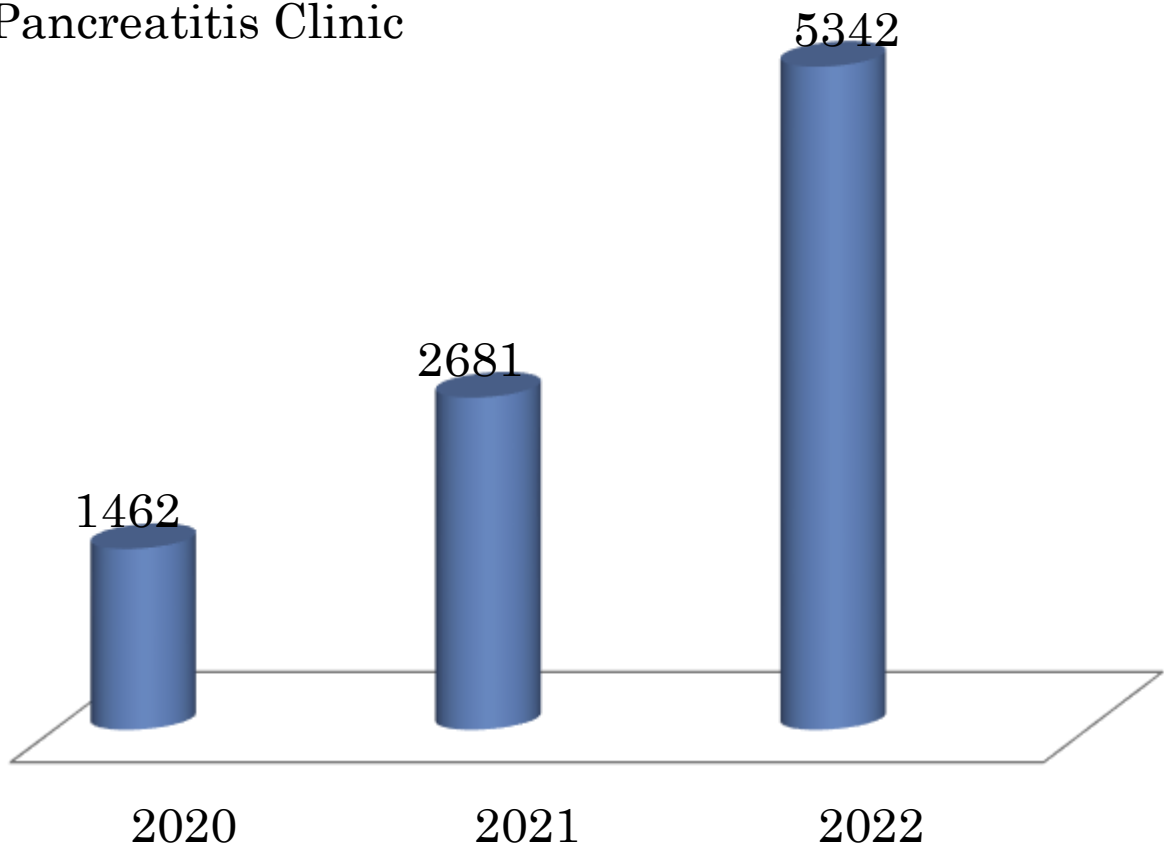


OPD Audit

Gastroenterology department apart from its specialized clinics, provides OPD services for patients 3 days a week. During the COVID years there was a relative decline in the GI OPDs, however in 2022 once the limitations were off the number increased to more than 5000. The commonest presentation is dyspepsia followed by decompensated liver disease follow-up. The age group with most foot falling is between 40-50 years.

Our department also extends the OPD services through its specialized clinics as follows:

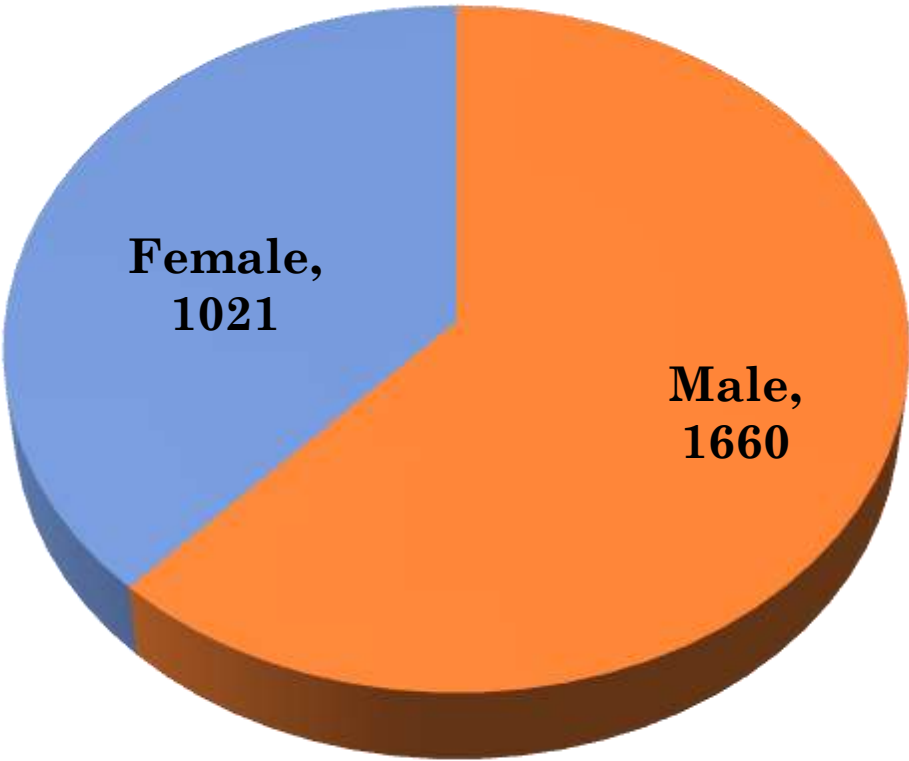
- Hepatitis Clinic
- IBD clinic
- Pancreatitis Clinic



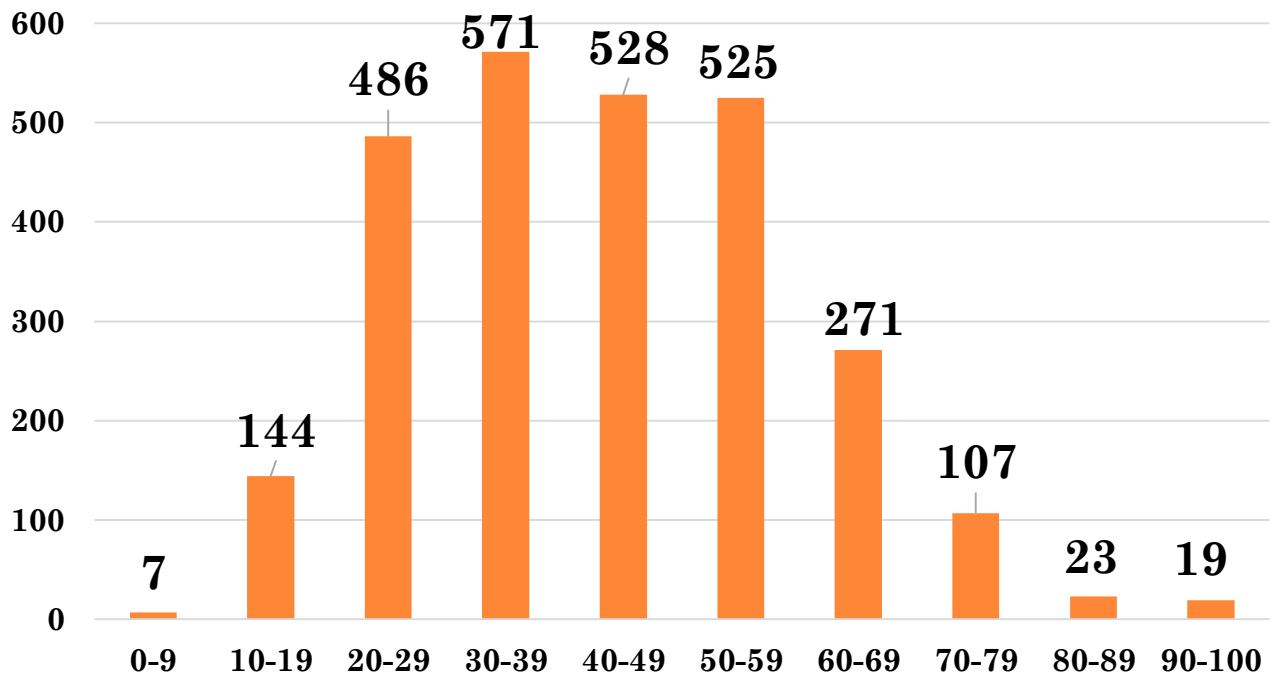
2021

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

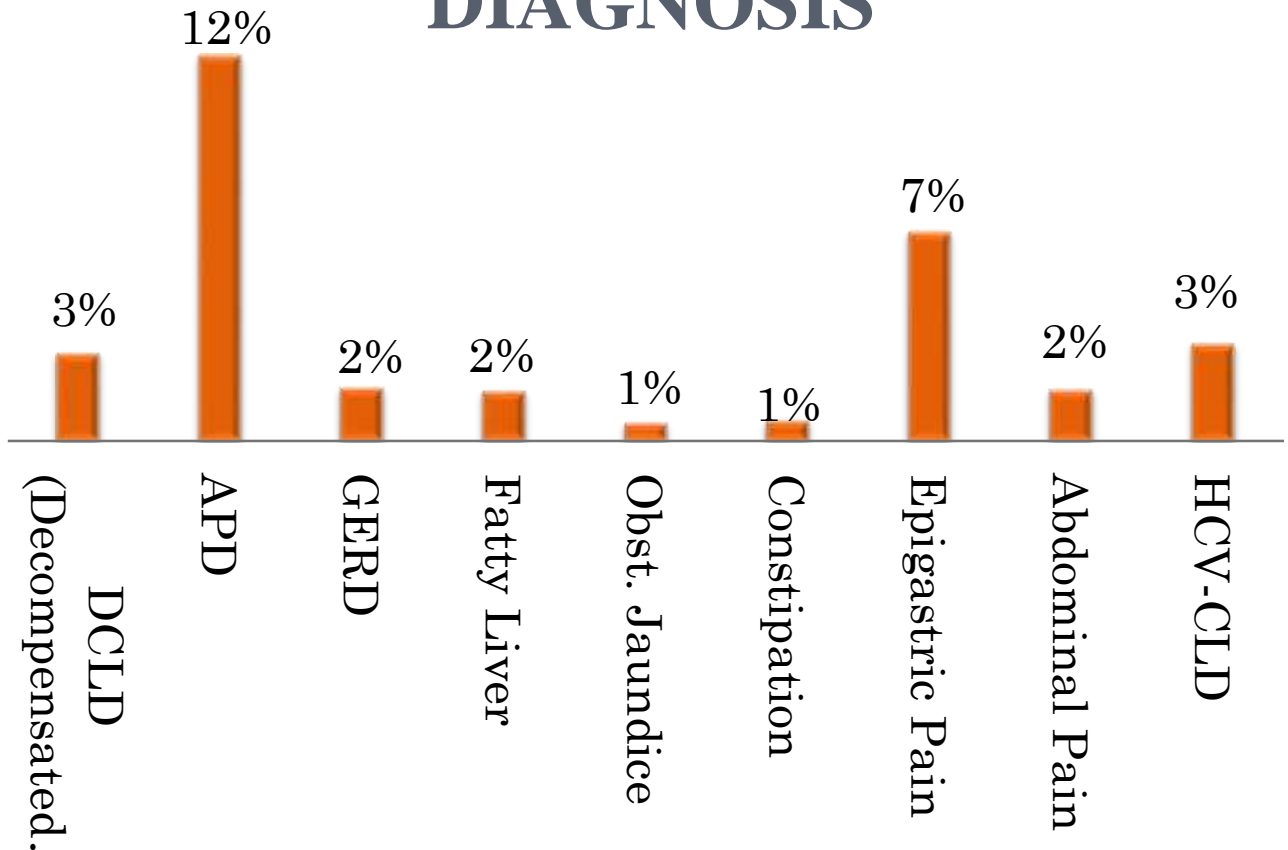
Total No of Patients	2681
Male	1660
Female	1021



AGE WISE DISTRIBUTION



DIAGNOSIS

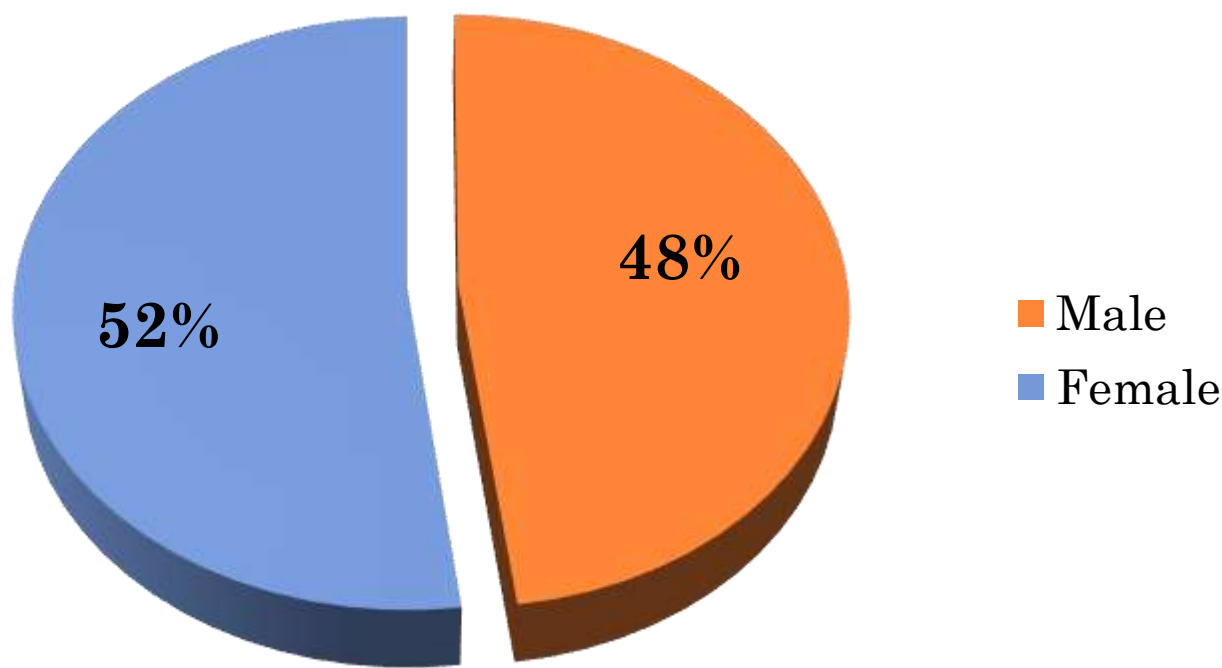


2022

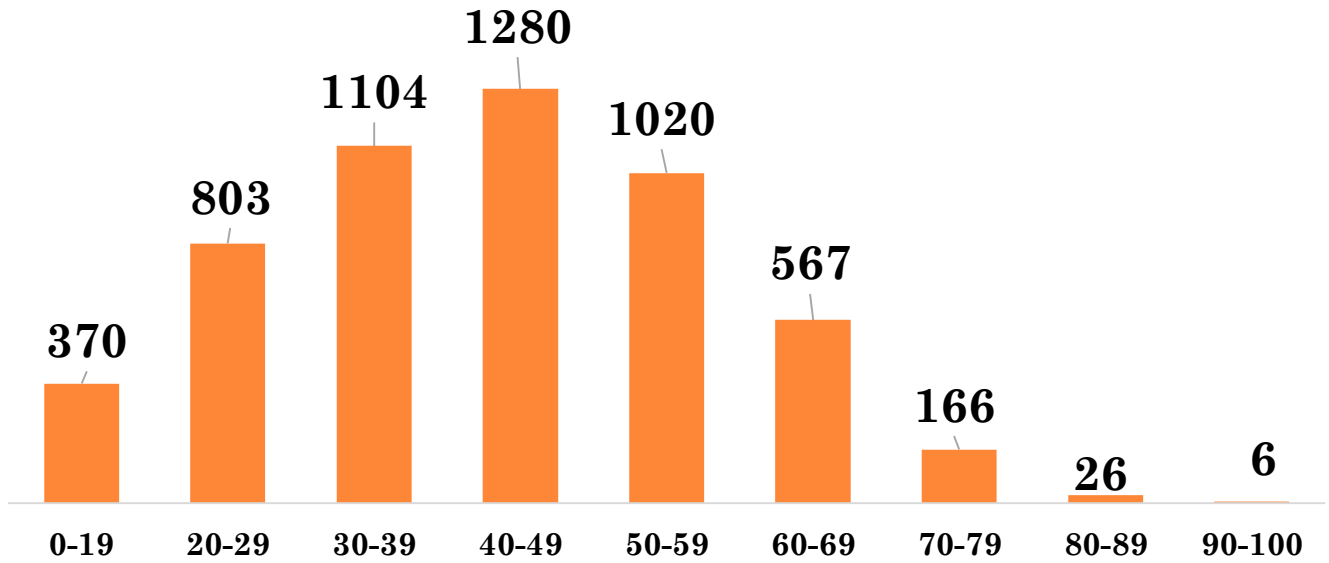
TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION.

Total No of Patients	5342
Male	2563
Female	2779

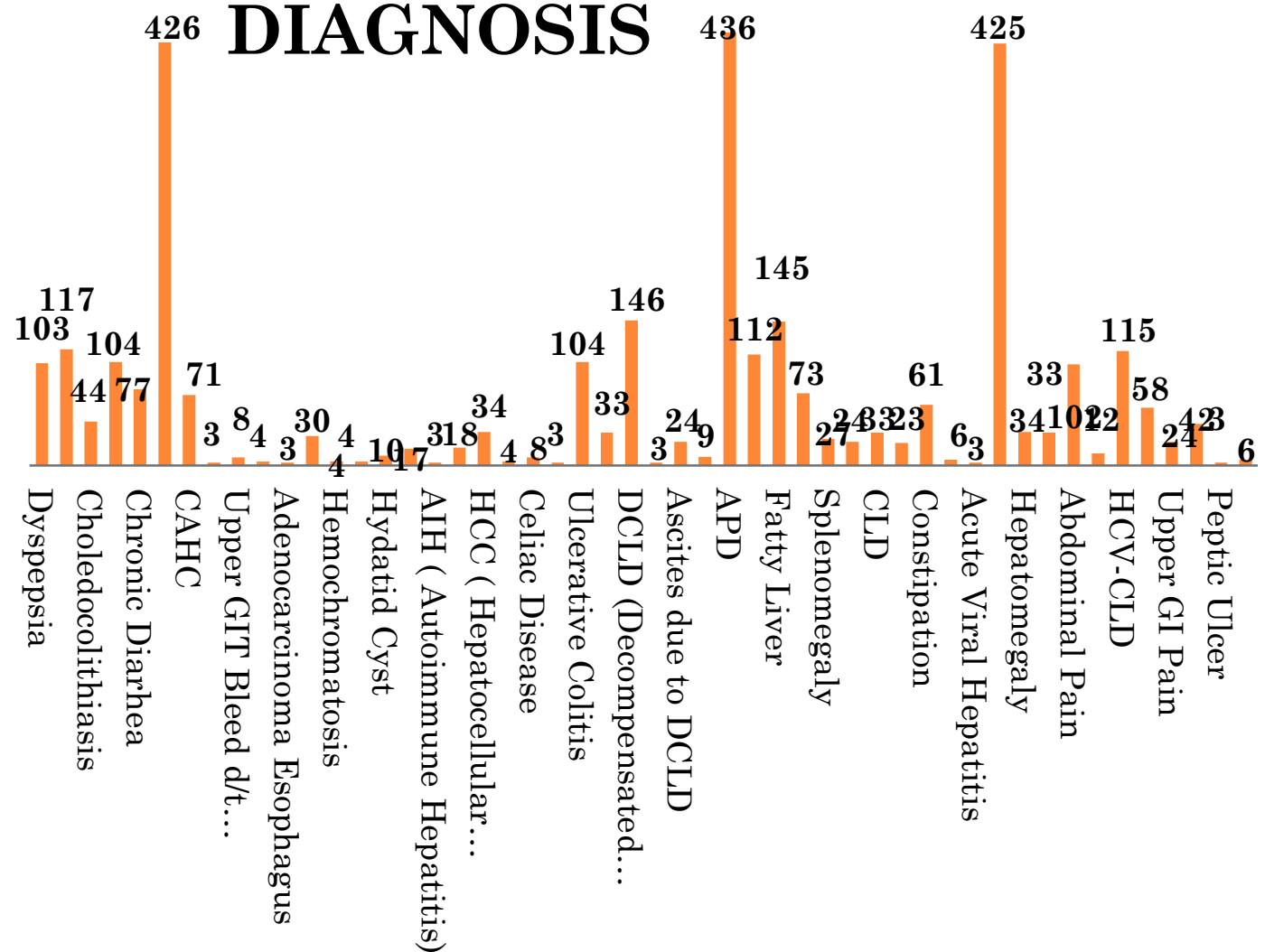
Gender



AGE WISE DISTRIBUTION



DIAGNOSIS



Liver Clinic Audit

Hepatitis clinic is the most organized and well established clinic, that has been serving even before the development of center for liver and digestive diseases. The dedicated clinic enroll all new cases of hepatitis C and B patients and continued the services with same zeal and fervor even during the COVID era, hence the numbers remain the same with an average enrolment of about 1000 new cases a year. Maintain their data and follow-up. Provide them the free medications through Punjab Hepatitis Prevention program of Government of Pakistan. The clinic also provides vaccination services to the patients and their families.

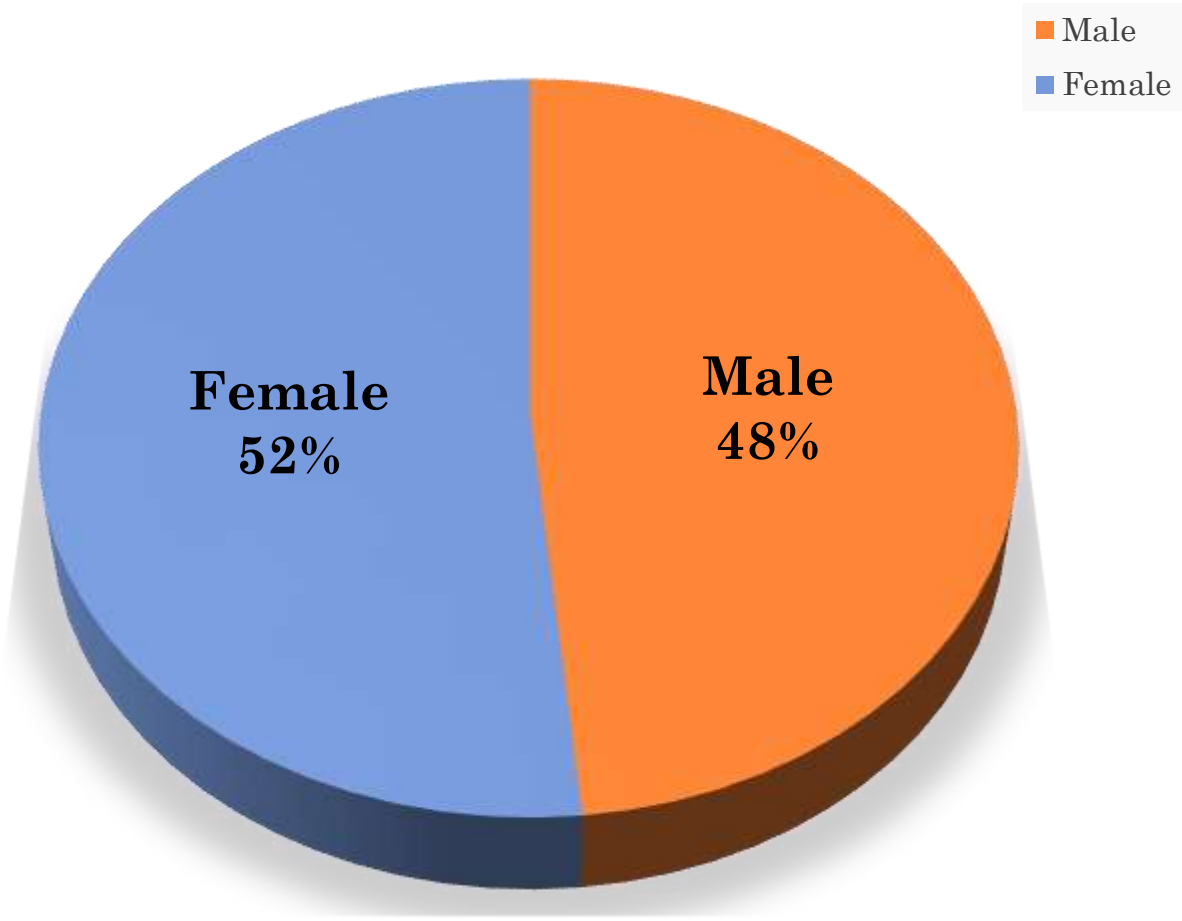


2020

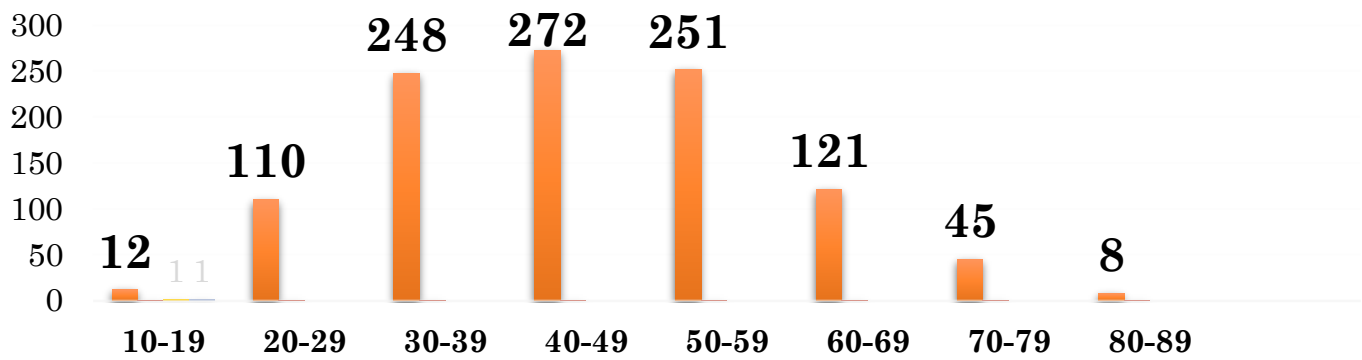
TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

Total No of Patients	1067
Male	517
Female	550

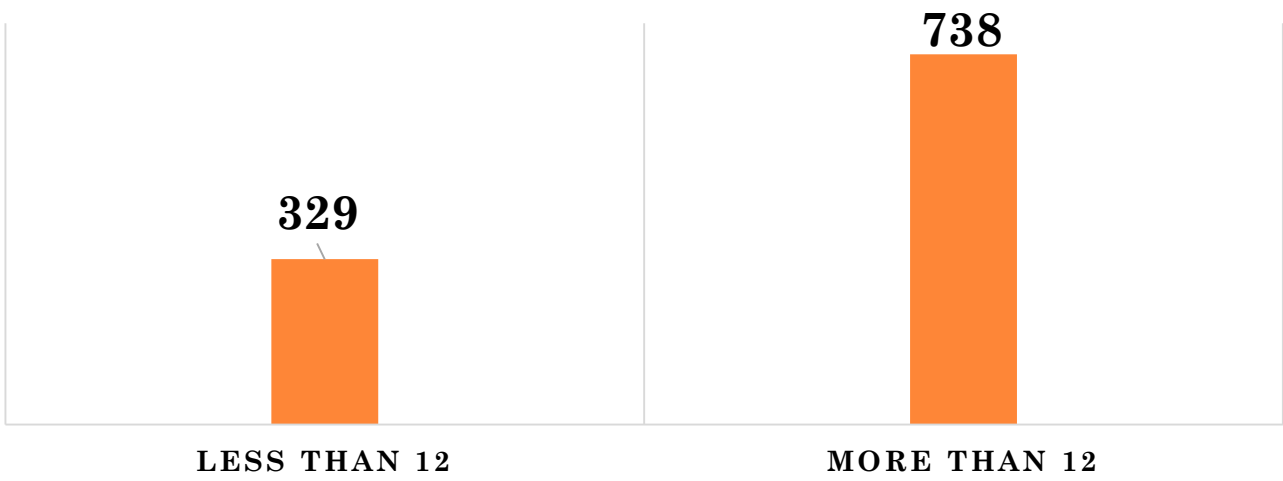
GENDER



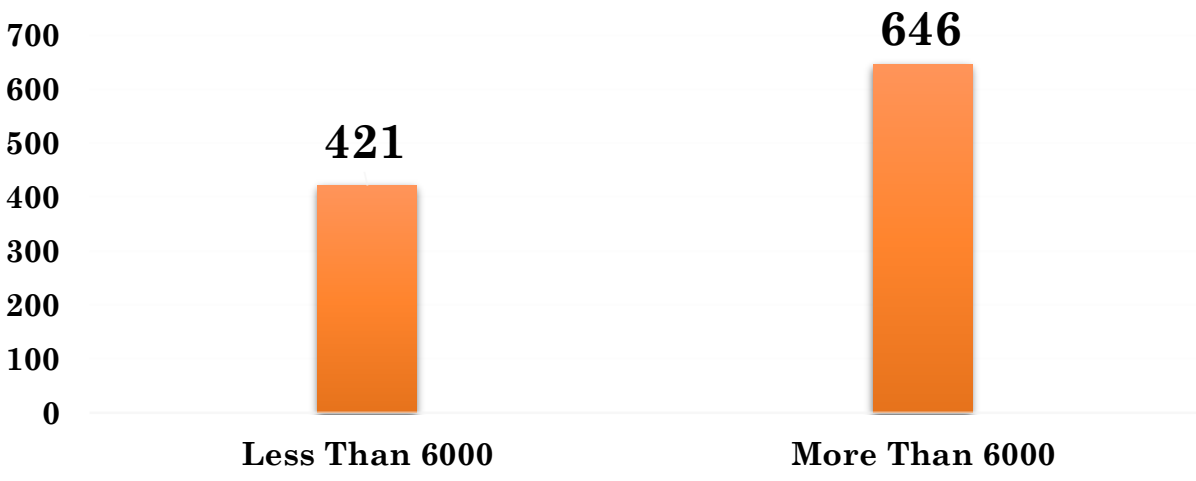
AGE WISE DISTRIBUTION



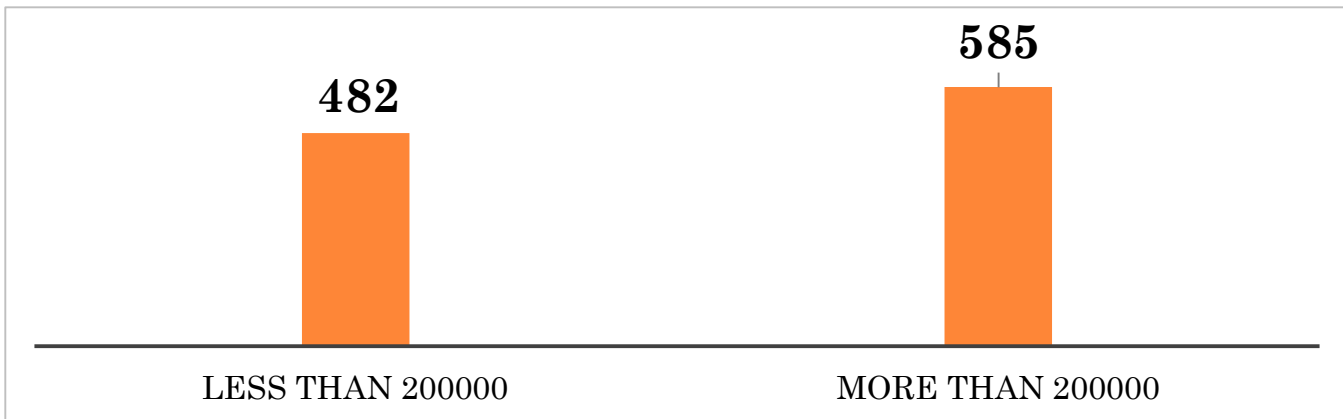
HEMOGLOBIN



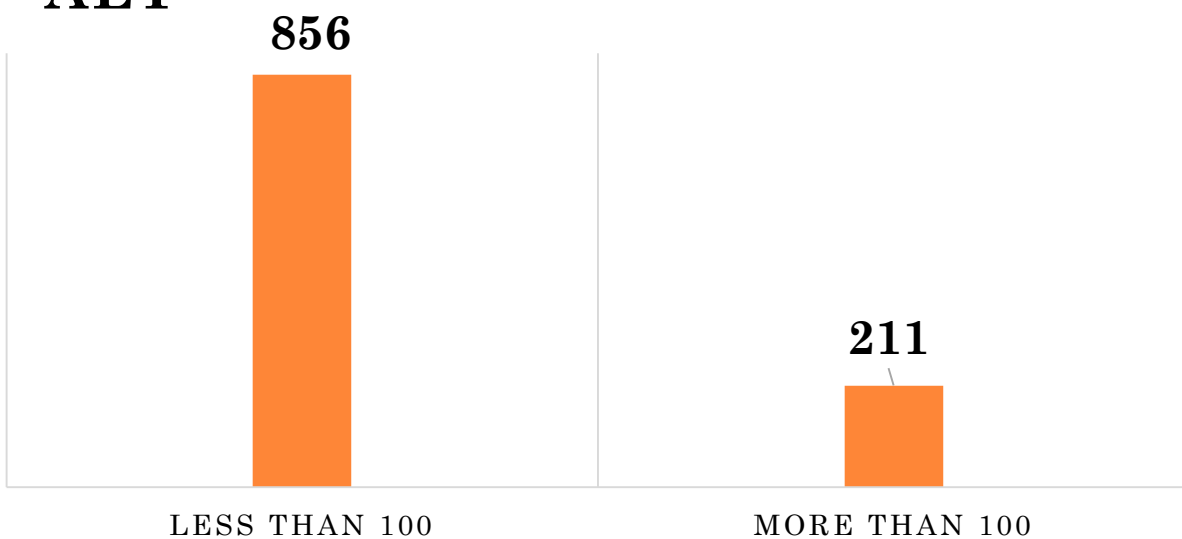
TLC



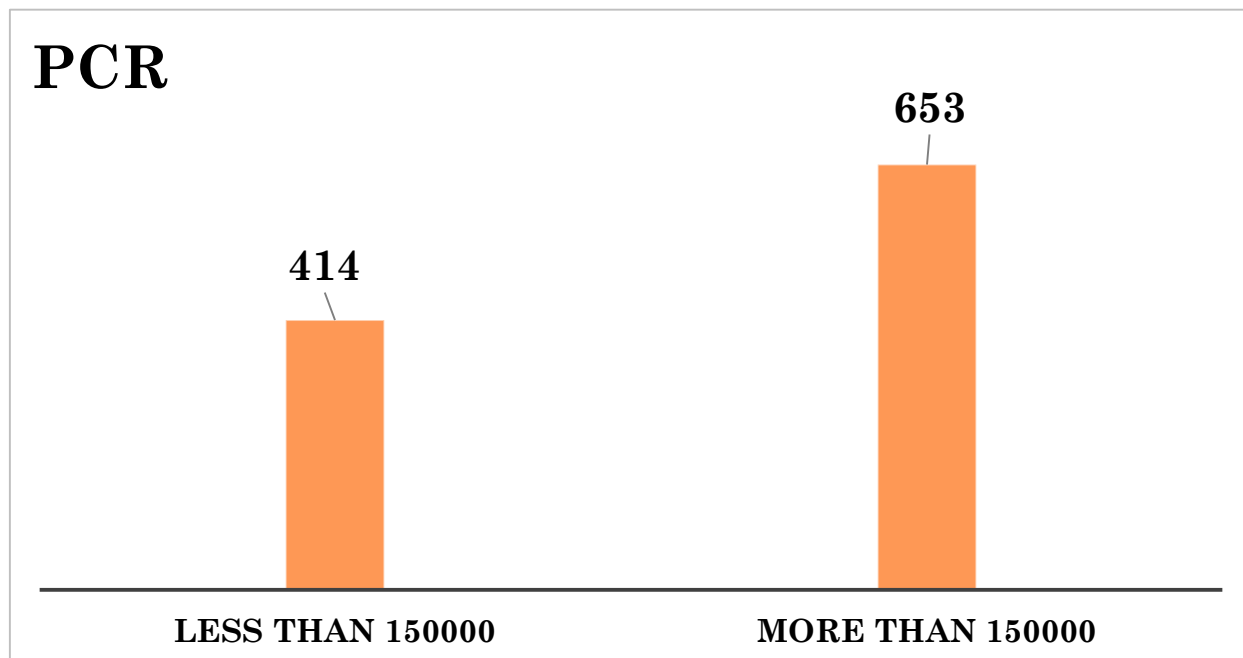
PLATELETS



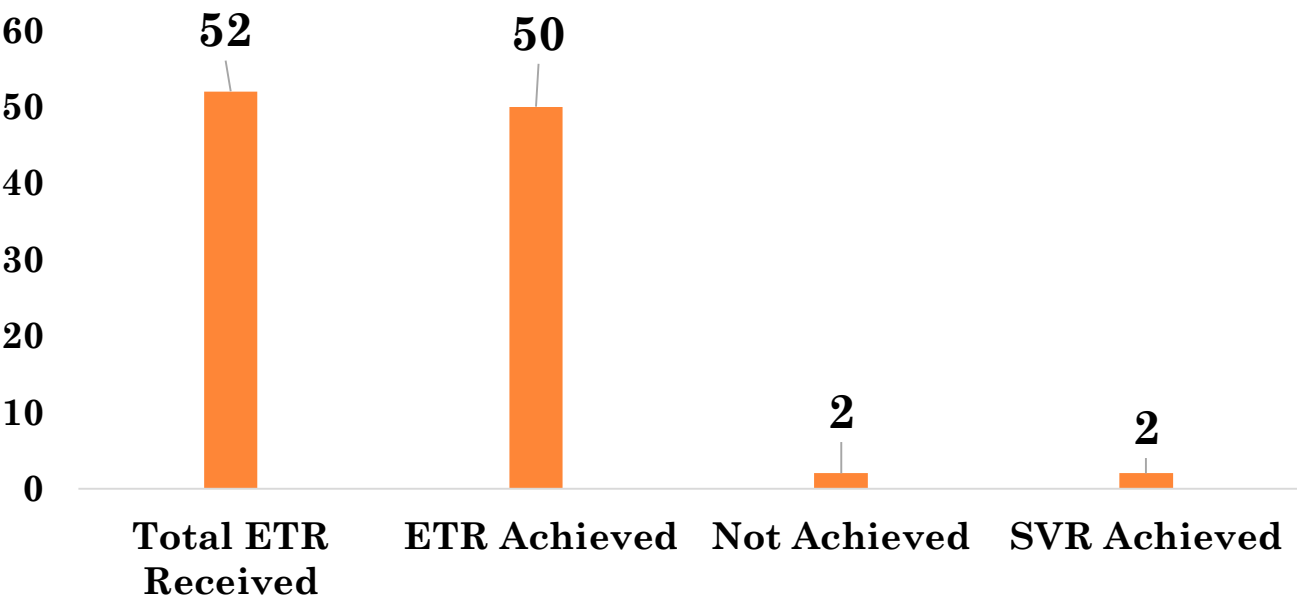
ALT



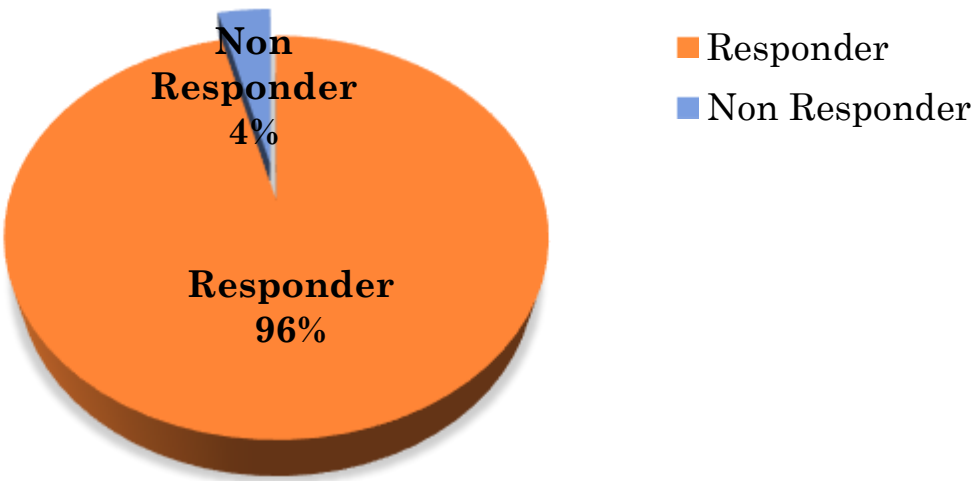
PCR



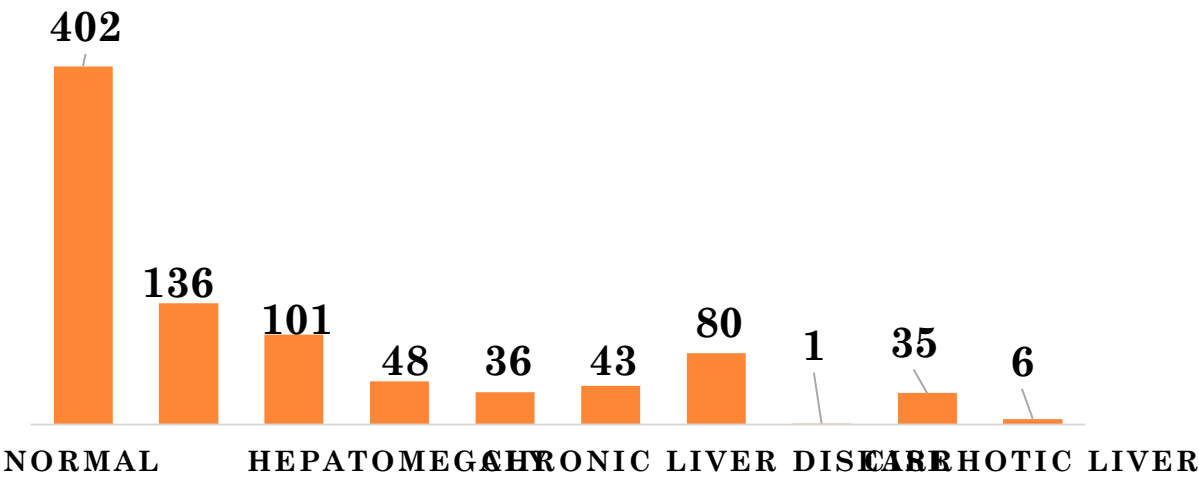
ETR ACHIEVED, NOT ACHIEVED



Responder, Non Responder



USG

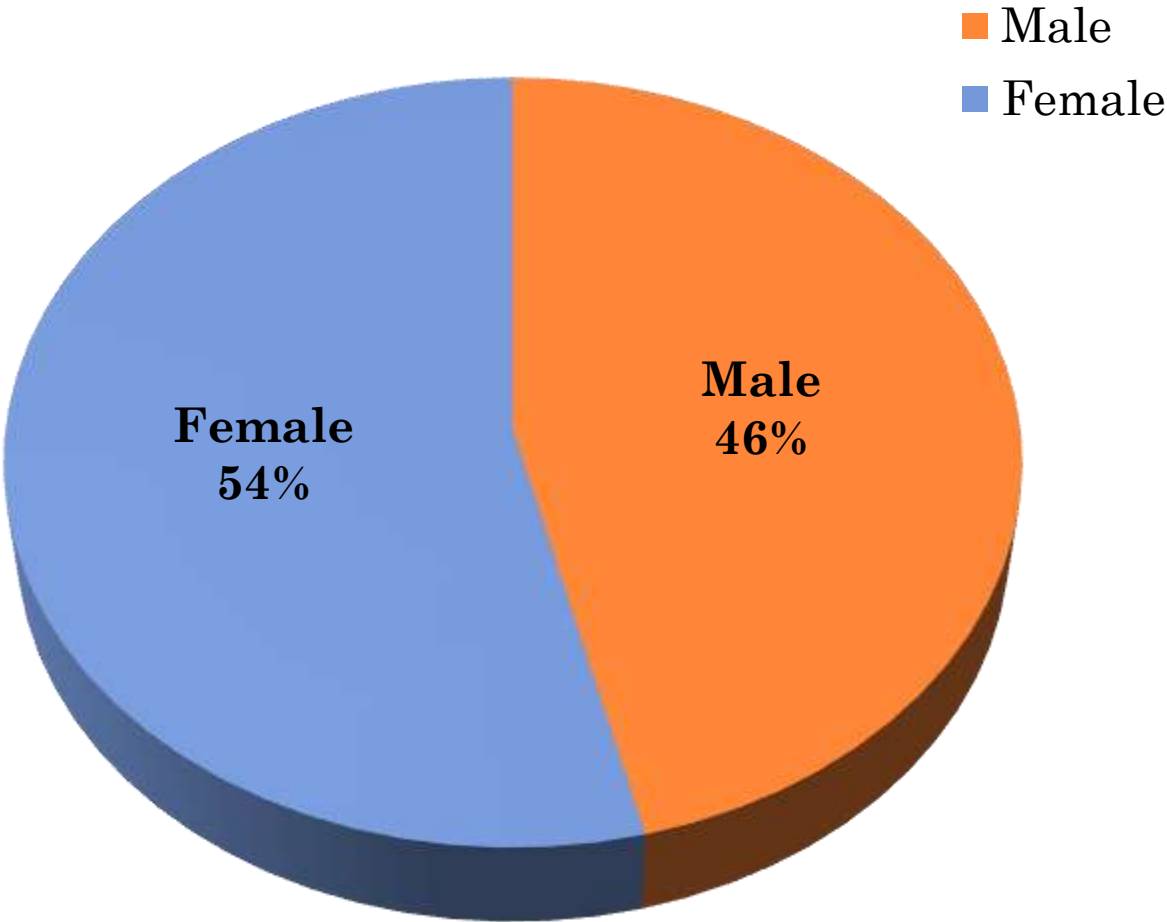


2021

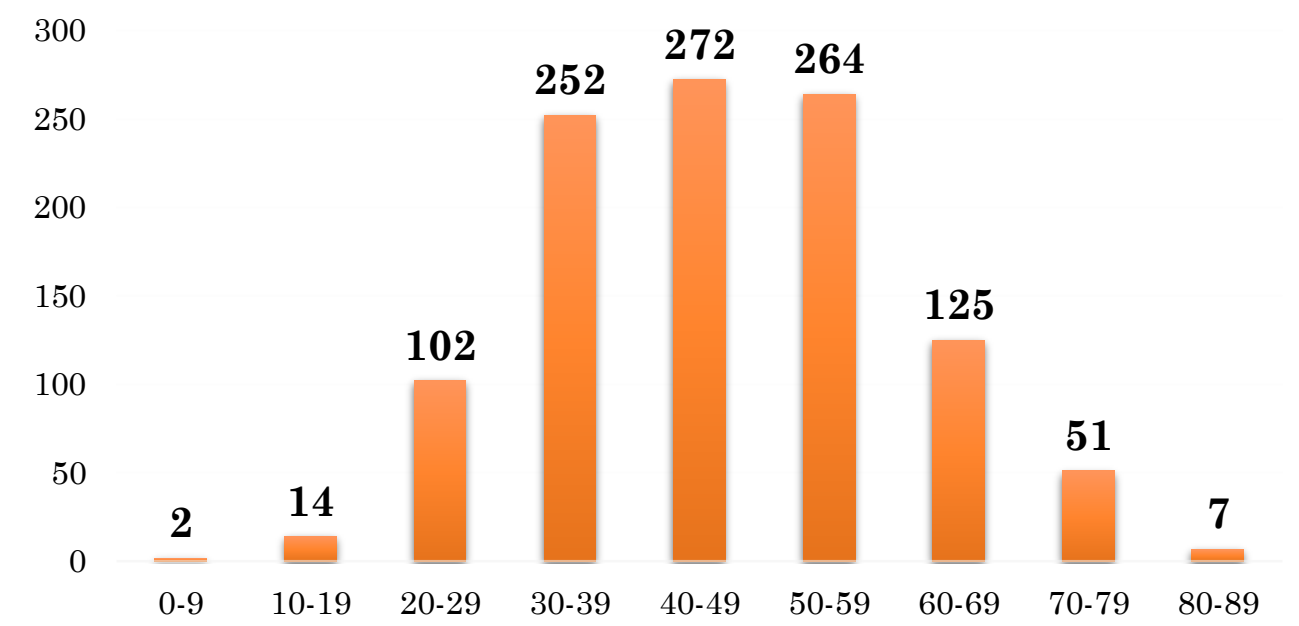
TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

Total No of Patients	1089
Male	505
Female	584

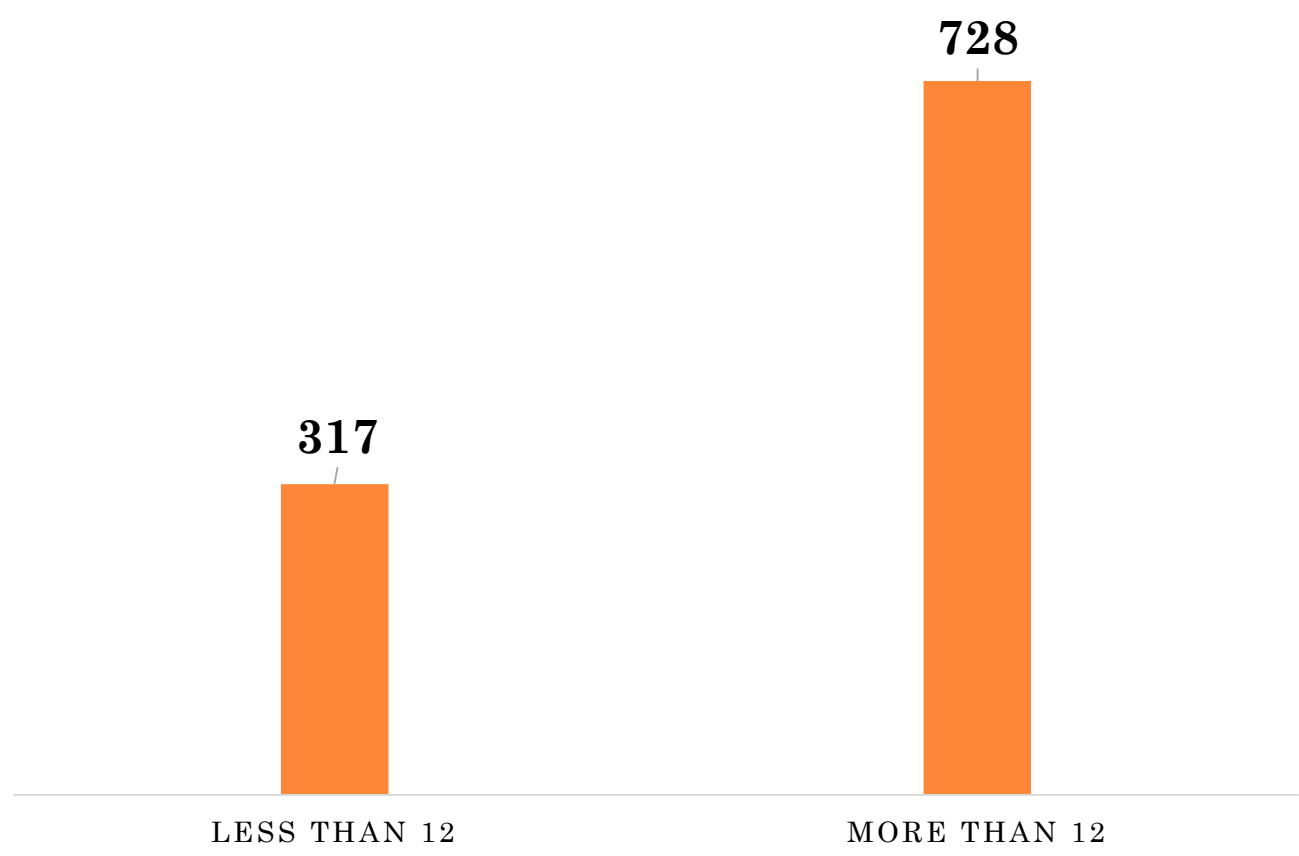
GENDER



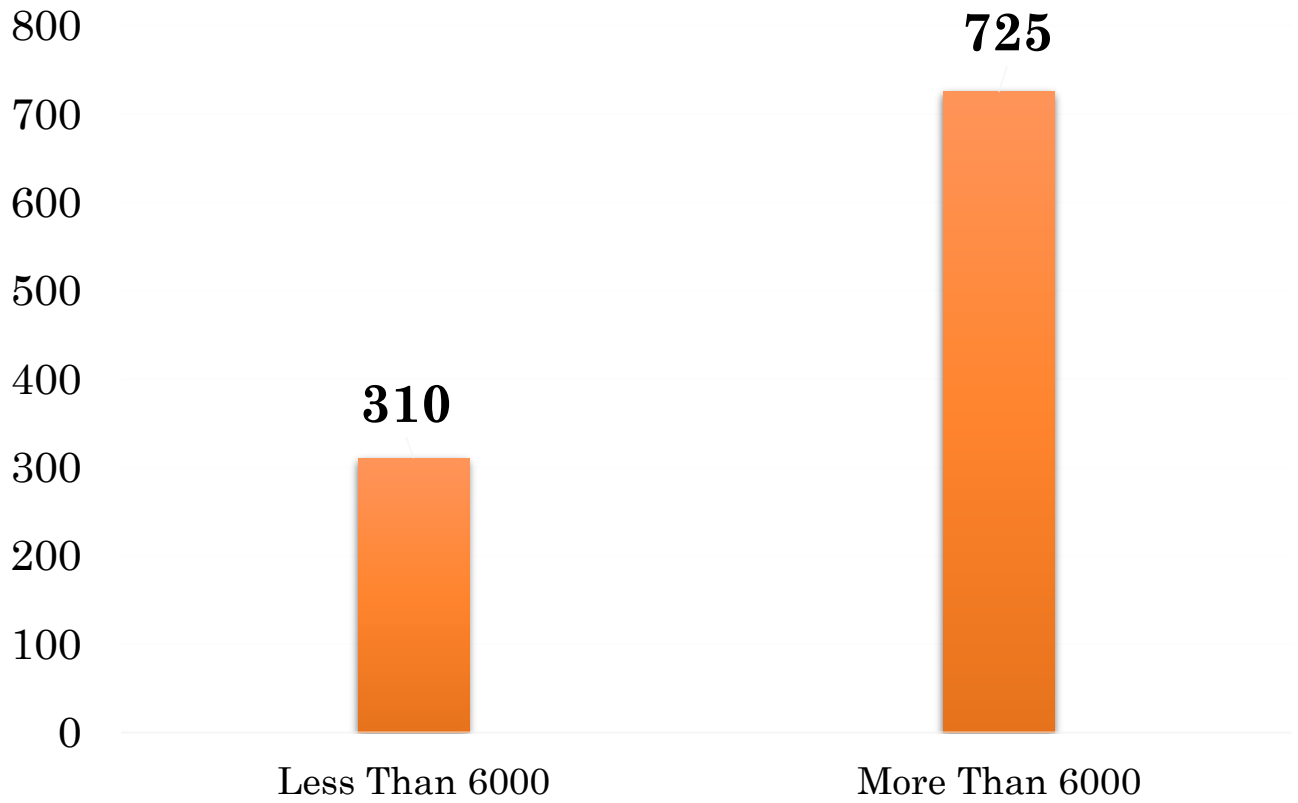
AGE WISE DISTRIBUTION



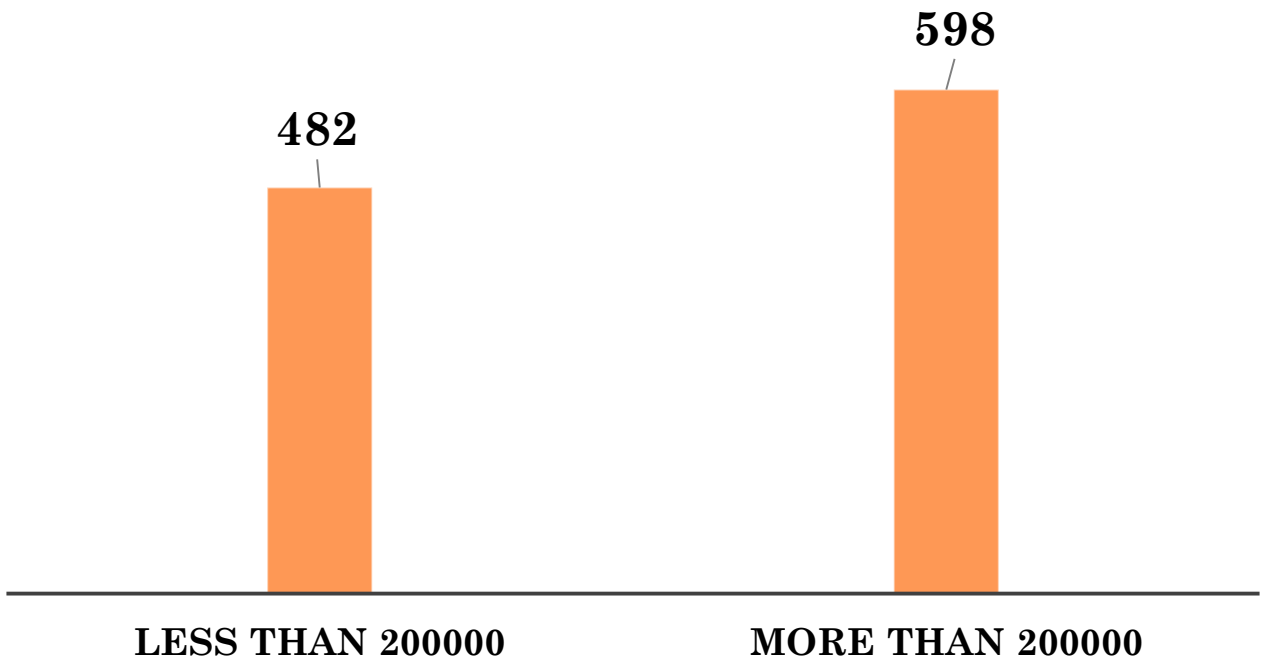
HEMOGLOBIN



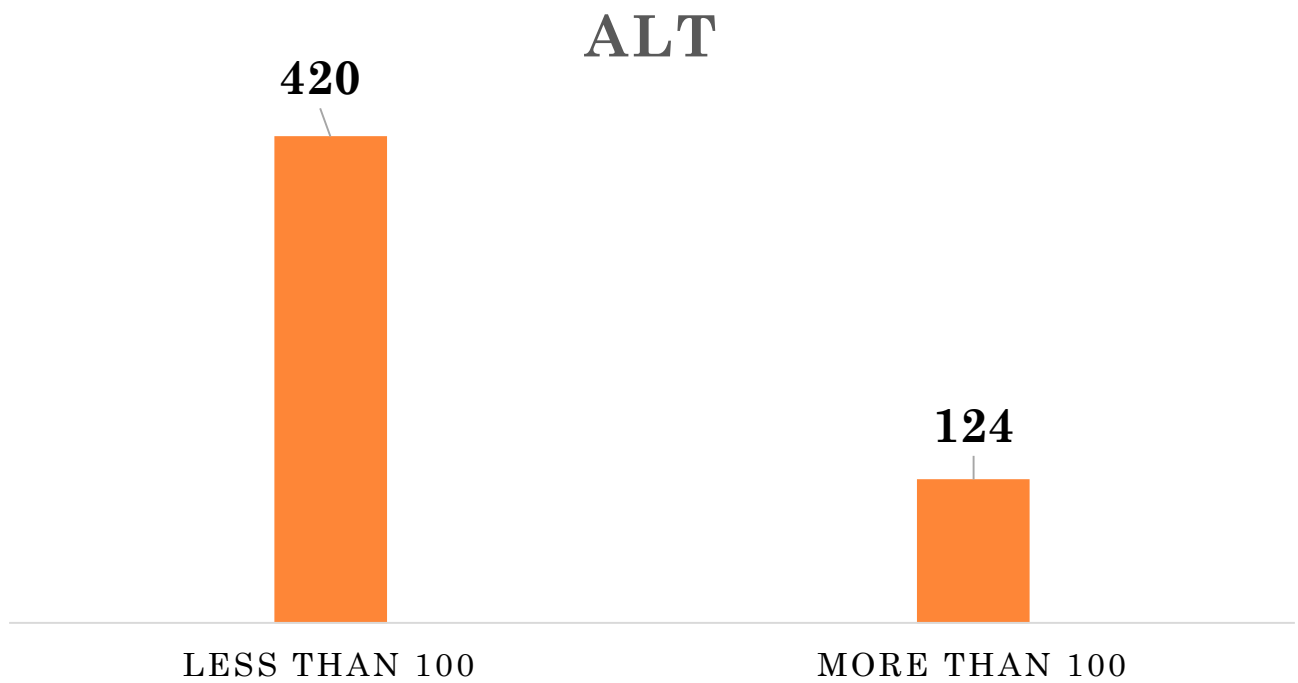
TLC



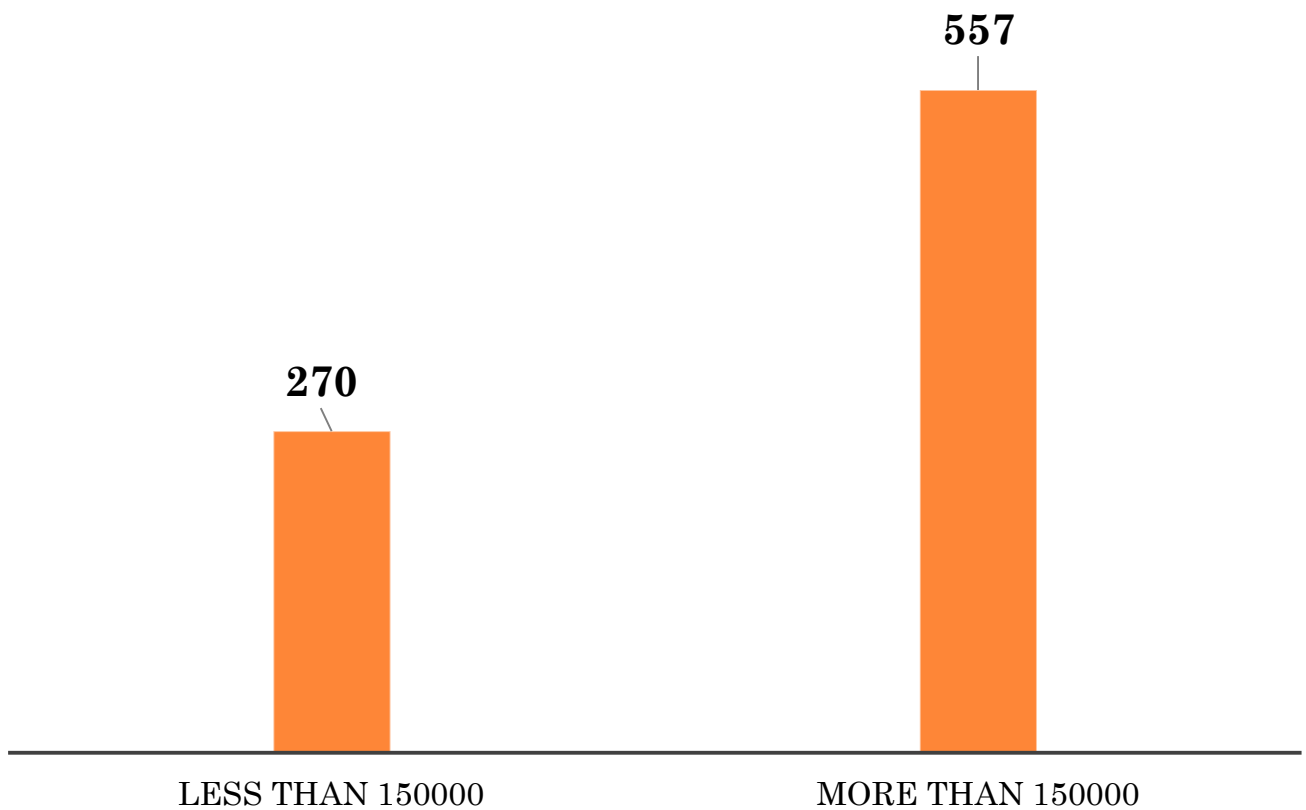
Platelets



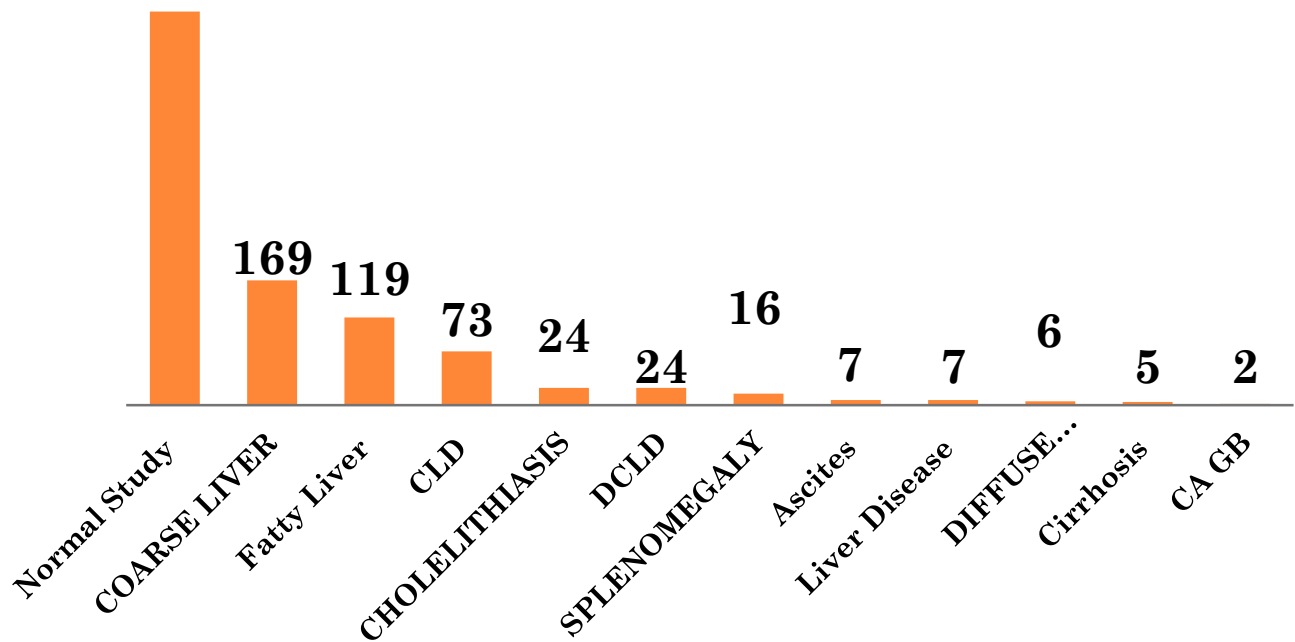
ALT



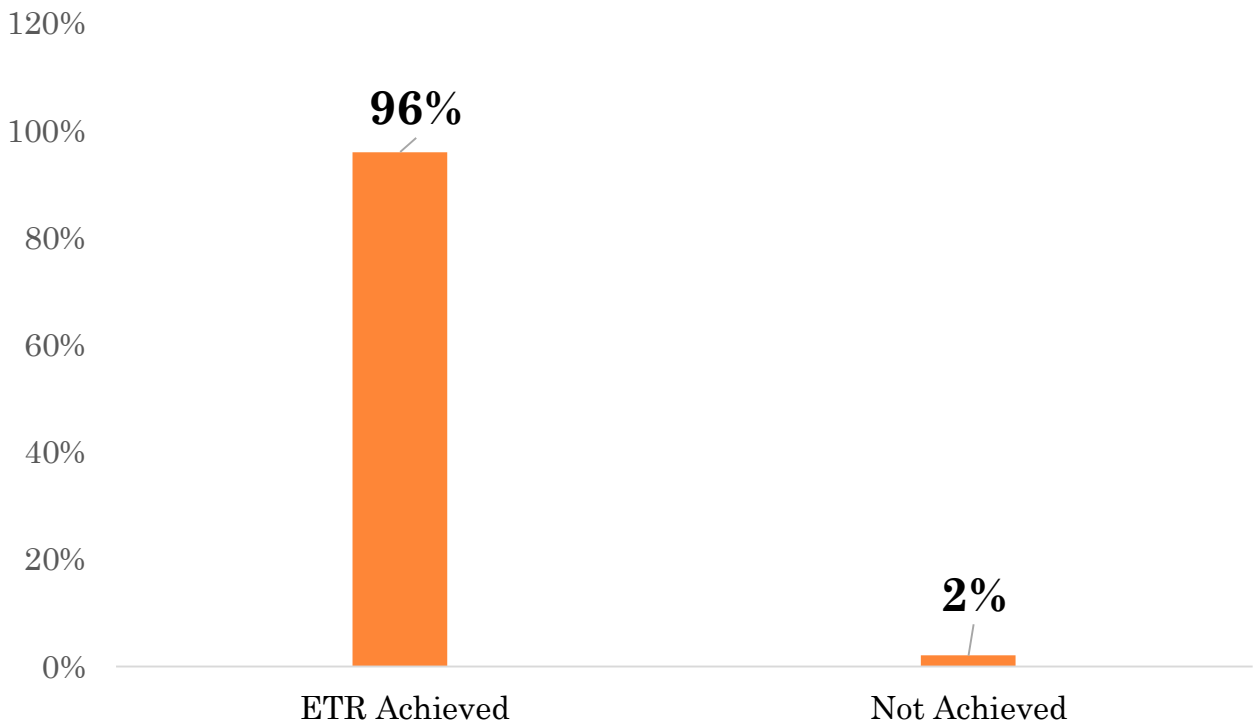
PCR



USG
532



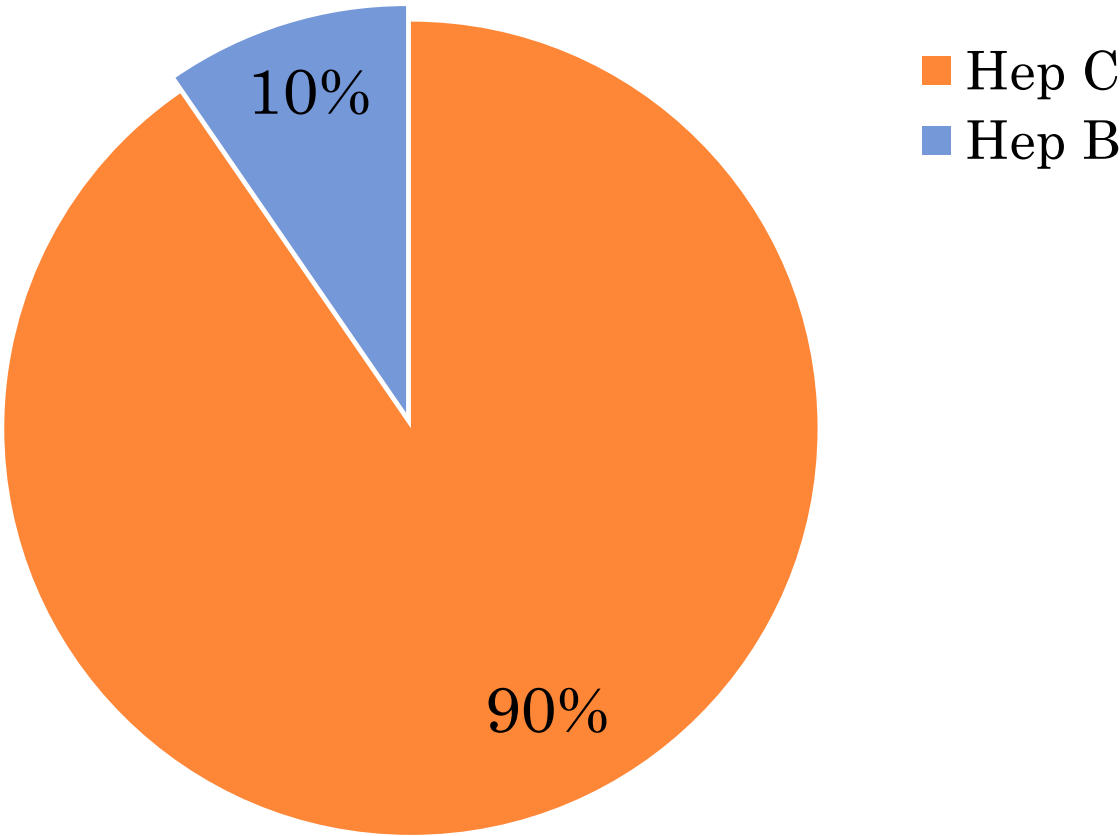
END OF TREATMENT RESPONSE (ETR)
NO OF PATIENTS WITH PCR AT END OF TREATMENT = 45



2022

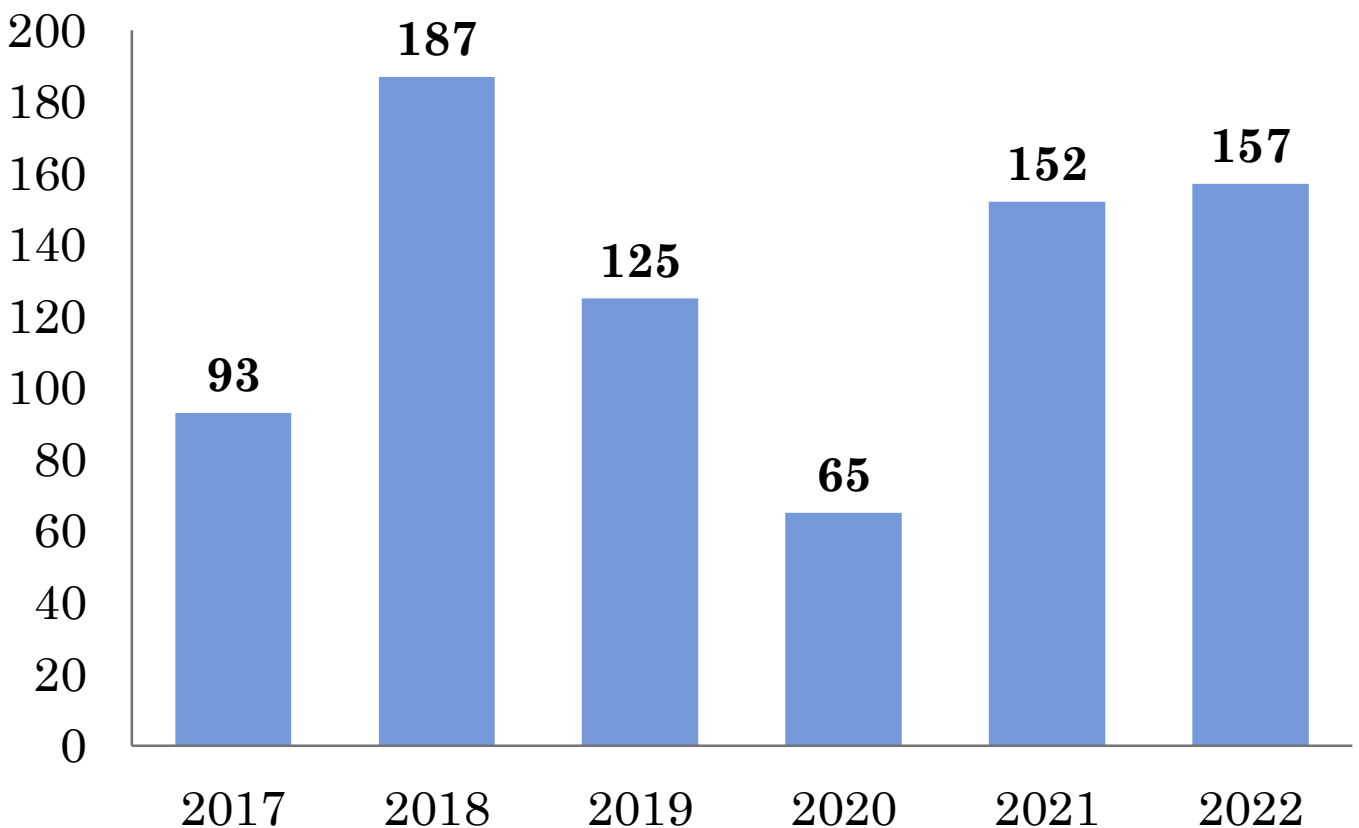
TOTAL NUMBER OF PATIENTS WITH
DISTRIBUTION.

Total No of Patients	1115
Hepatitis C	1008
Hepatitis B	107



HCC Clinic Audit

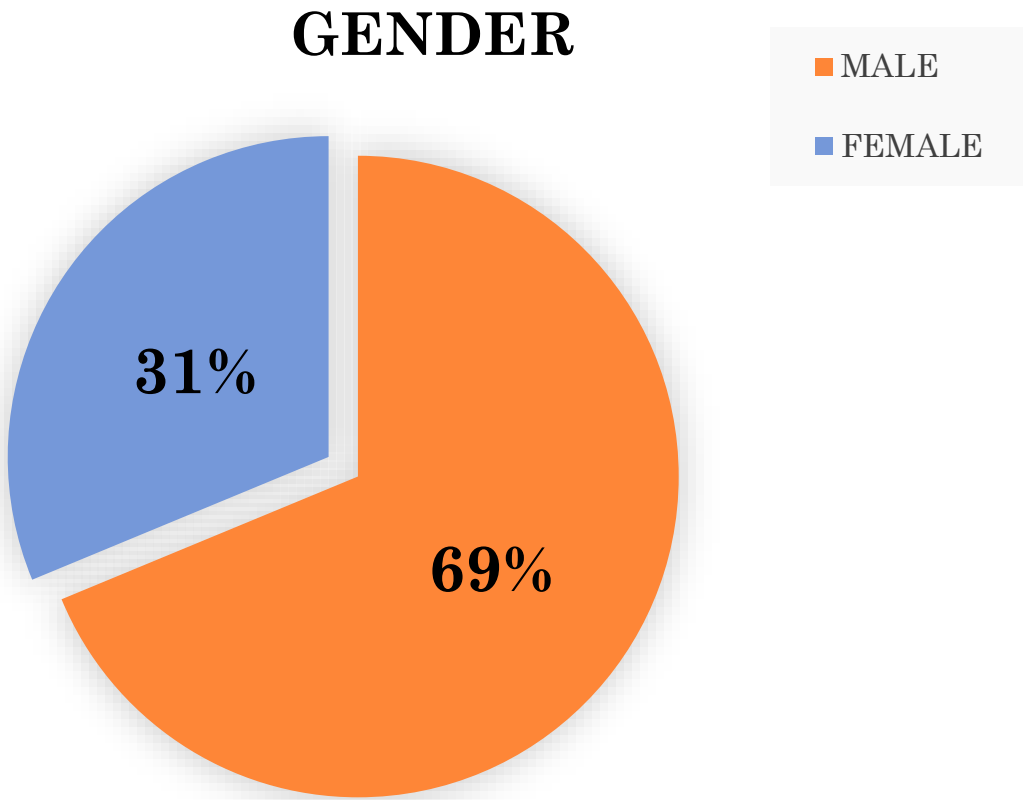
Pakistan being the most prevalent country for Hep C therefore the incidence of HCC is remarkably high and with better availability and easy access to radiological mortalities more and more HCC cause are being reported. HFH has its own CT Scan and MRI facilities. Center for liver and diagnostic disease also has the facility of RFA. A dedicated HCC clinic entertains the patients on every Friday. After formal enrollment and data entry each case is individually discussed in MDM meeting to decide for the best therapeutic modality. Most of the patients are diagnosed late with a BCLC stage C and are thus offered systemic chemotherapy. Our center is also offering RFA for stage appropriate cases.



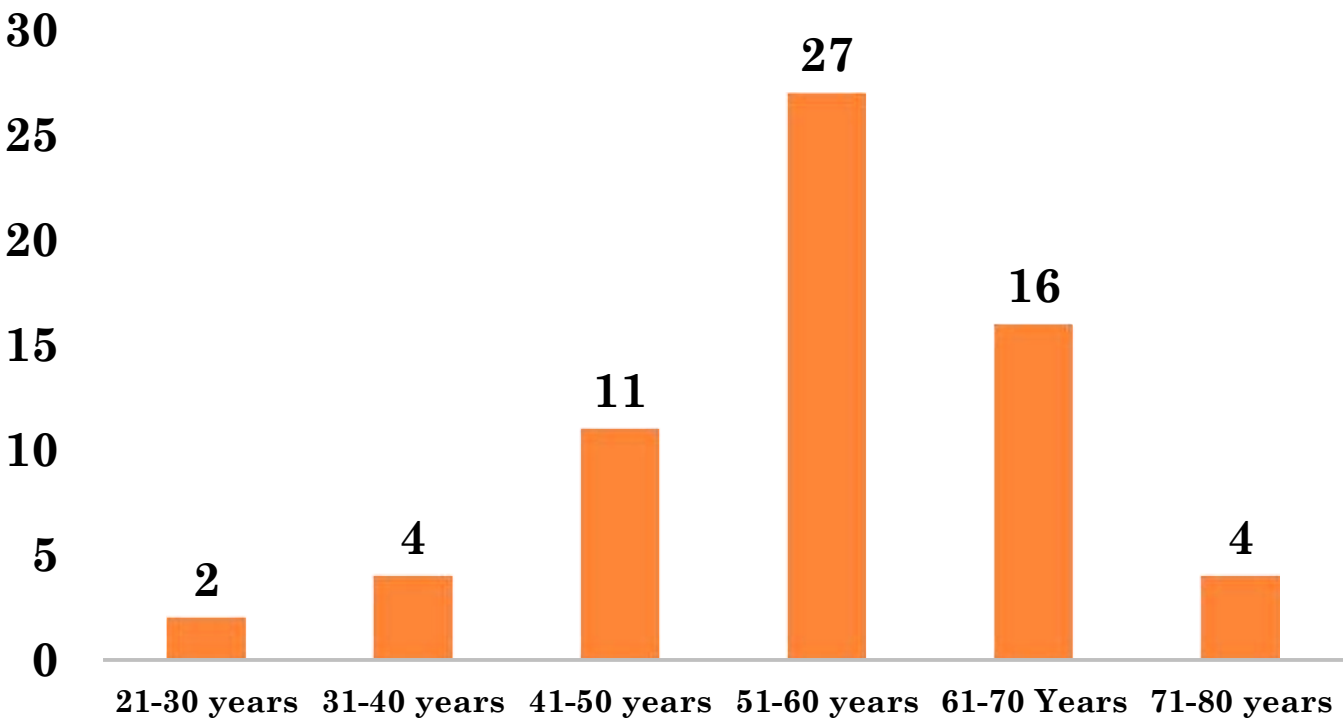
2020

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

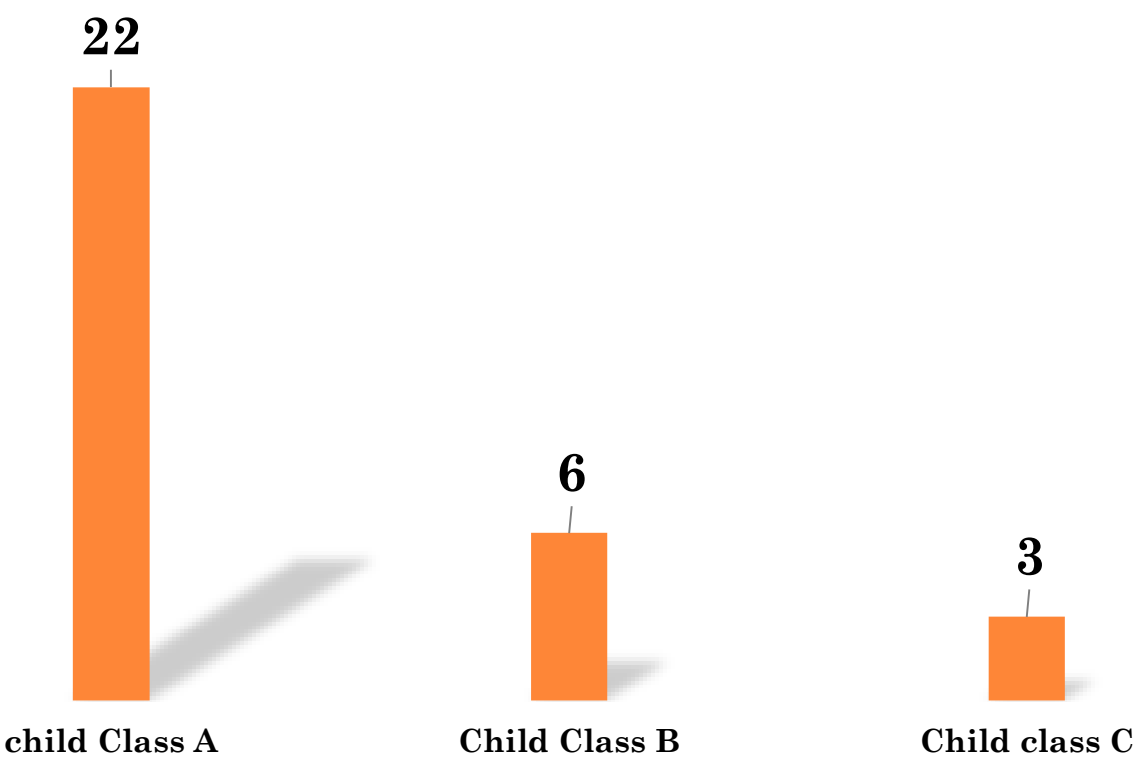
TOTAL NO OF PATIENTS	64
MALE	44
FEMALE	20



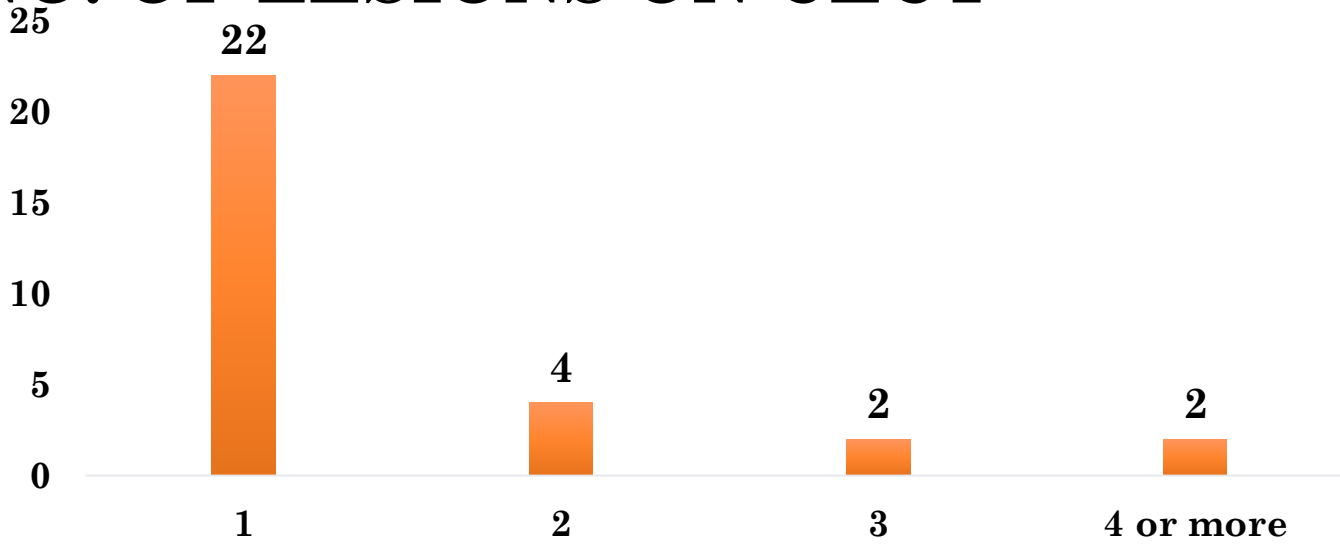
AGE WISE DISTRIBUTION



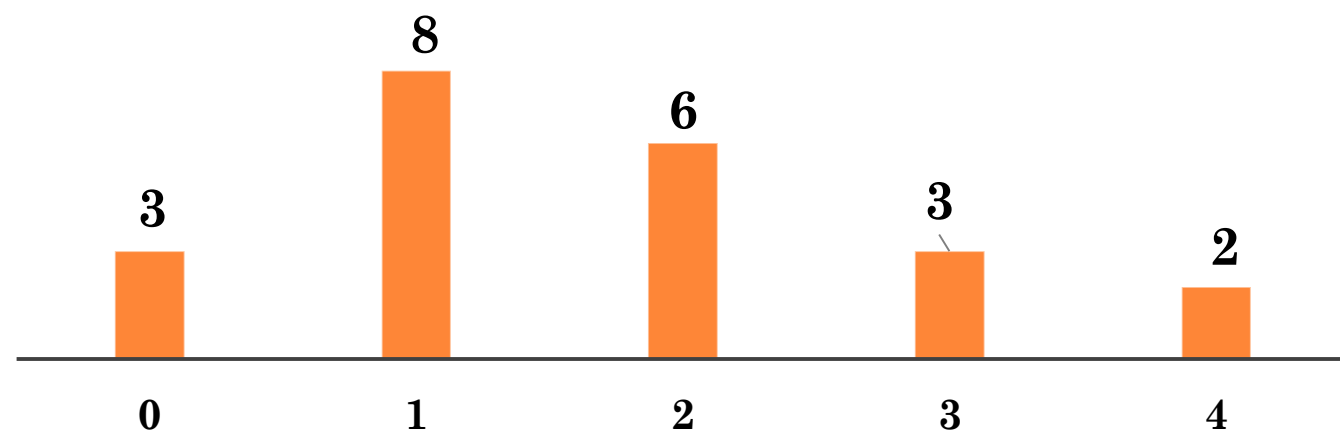
CHILD TURCUTTE CLASS



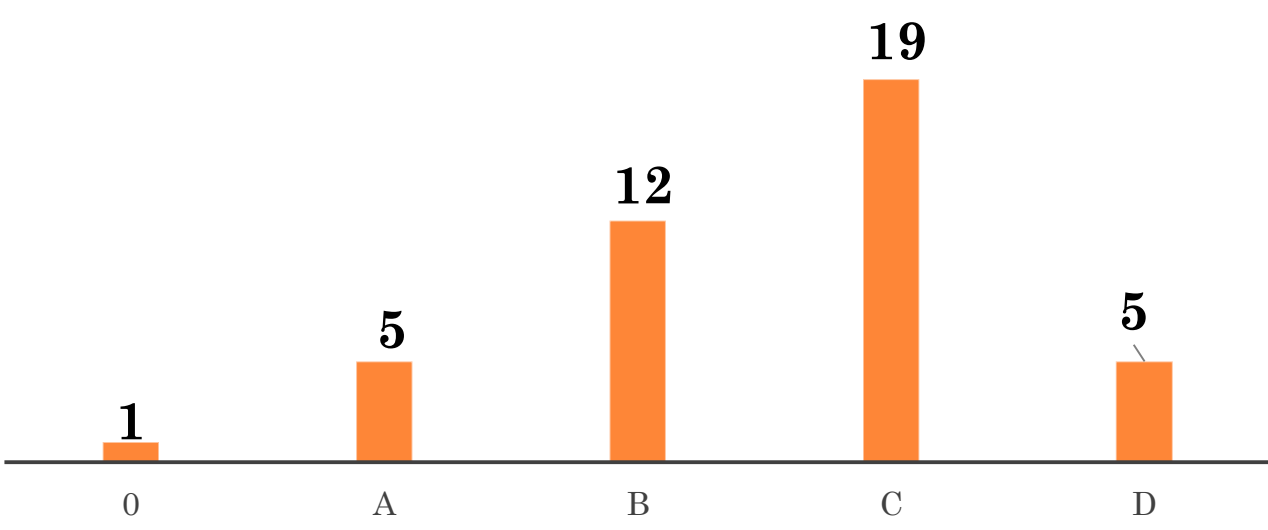
NO. OF LESIONS ON CECT



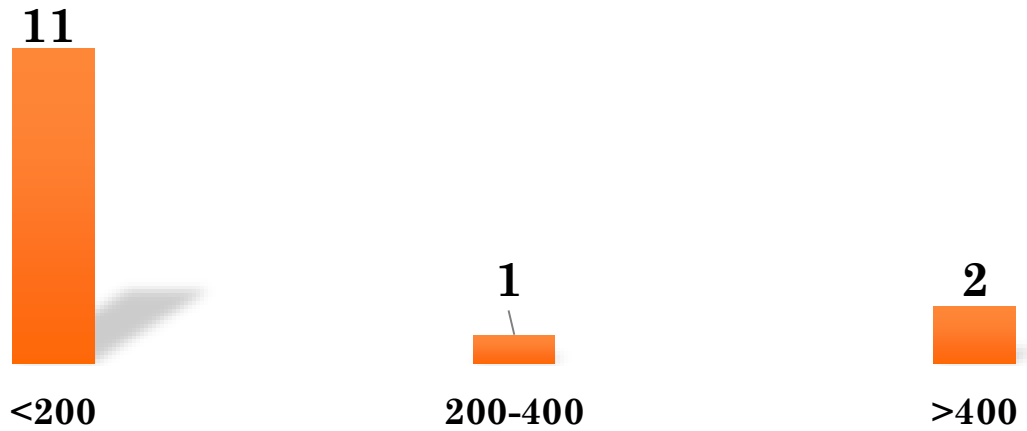
PST (ECOG)



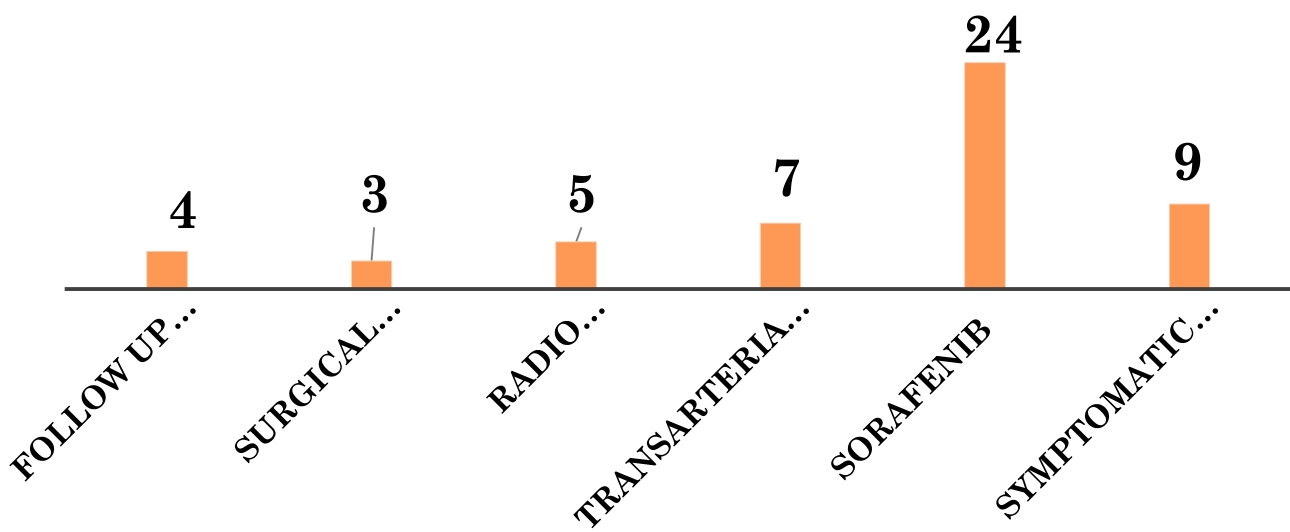
BARCELONA CLINIC FOR LIVER CANCER



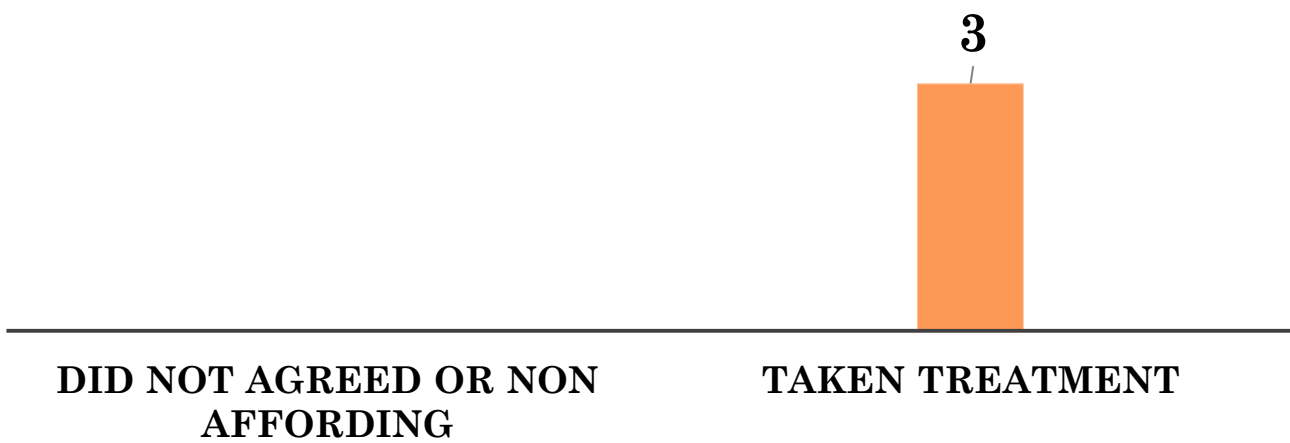
ALPHA FETO PROTEINS



TREATMENT OFFERED



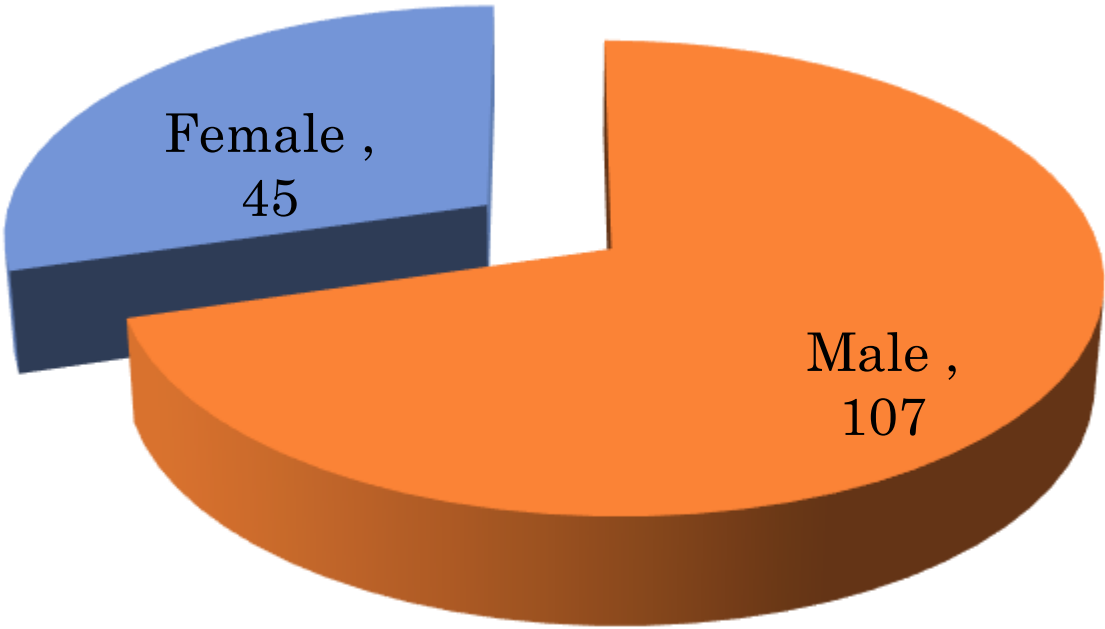
TREATMENT TAKEN OR NOT



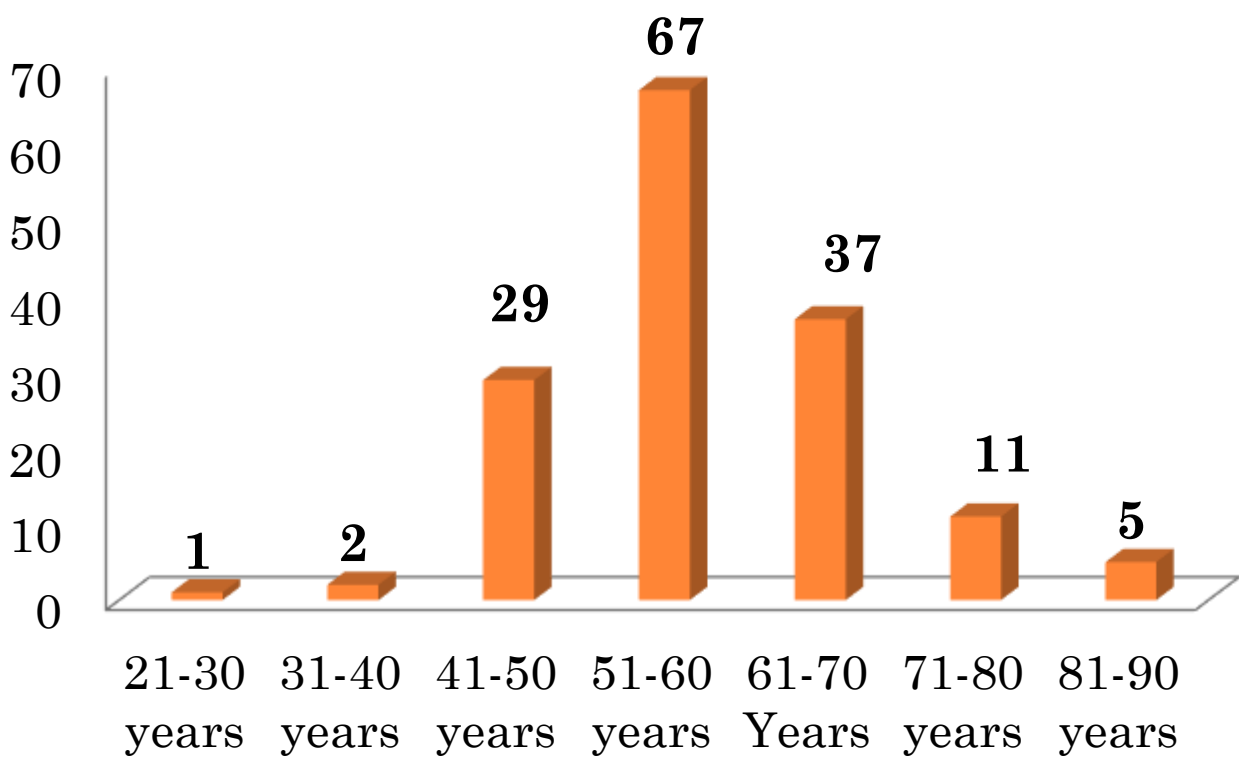
2021

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

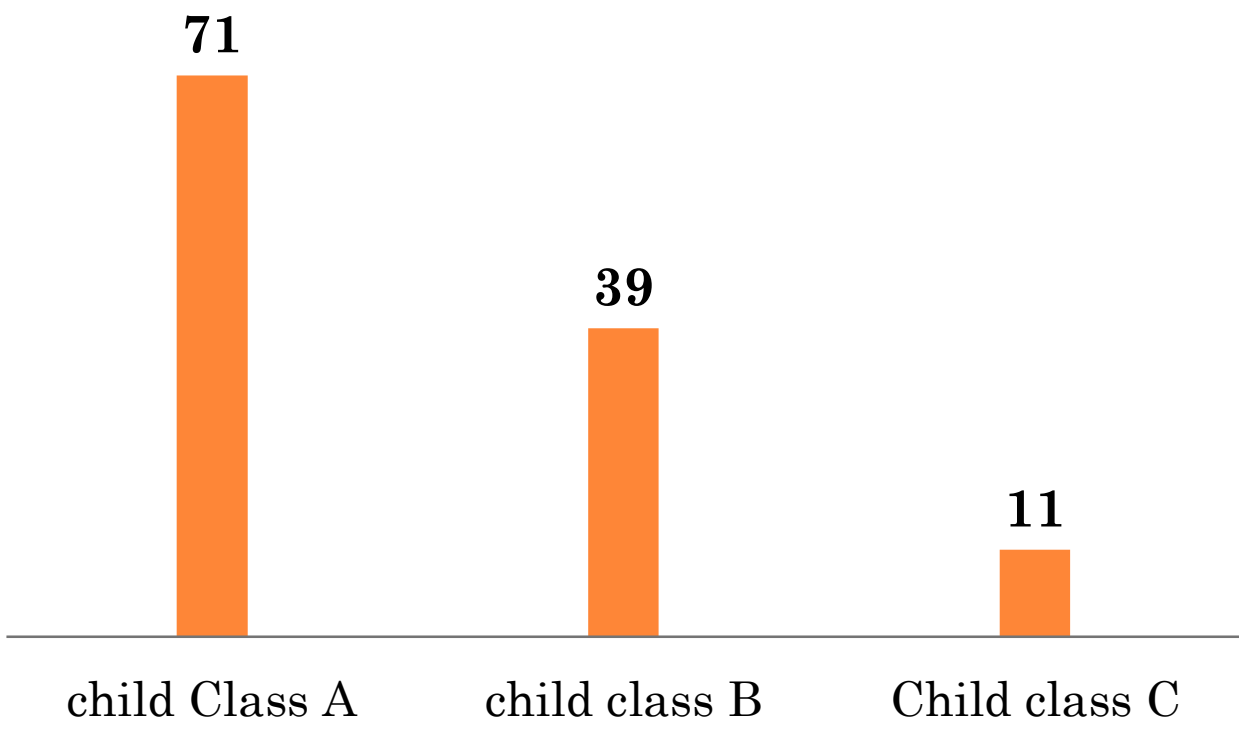
TOTAL NO OF PATIENTS	152
MALE	107
FEMALE	45



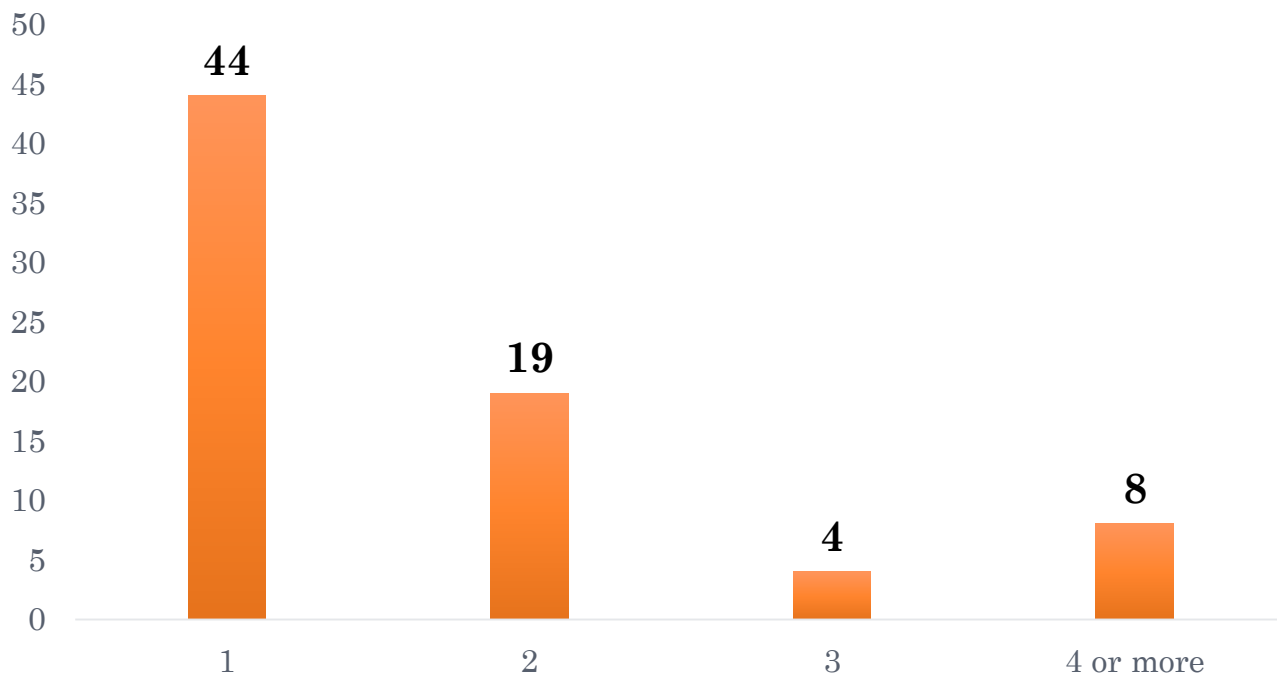
AGE WISE DISTRIBUTION



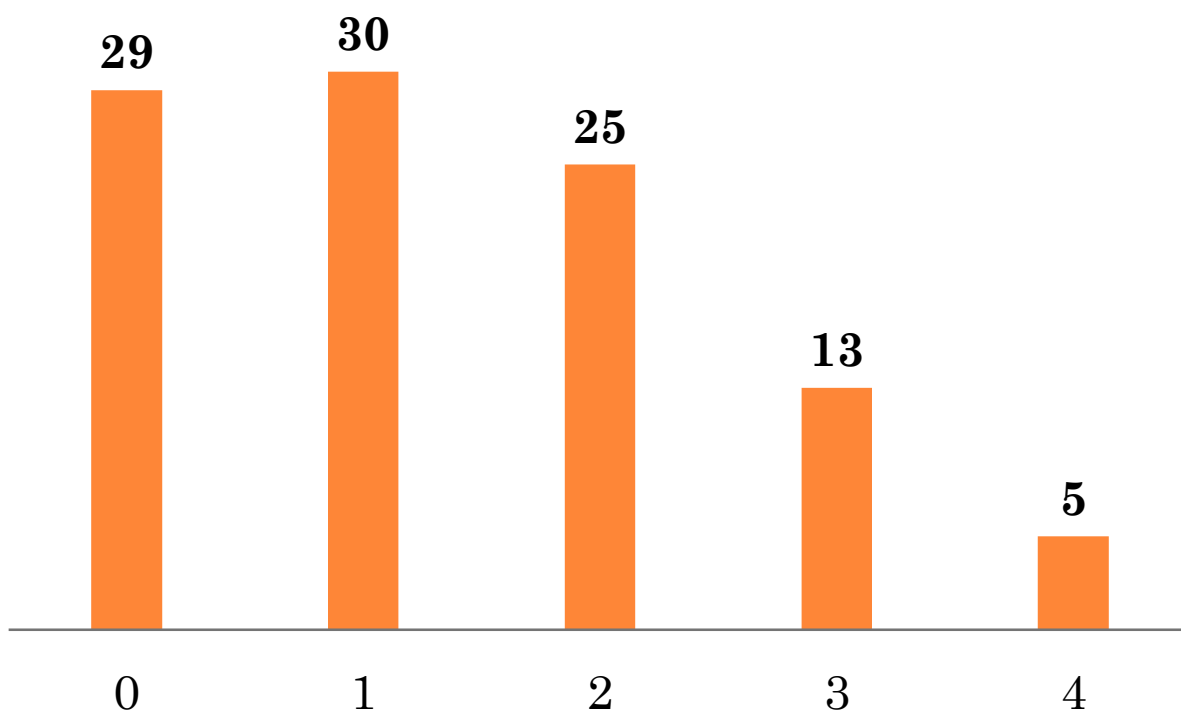
CHILD TURCUTTE CLASS



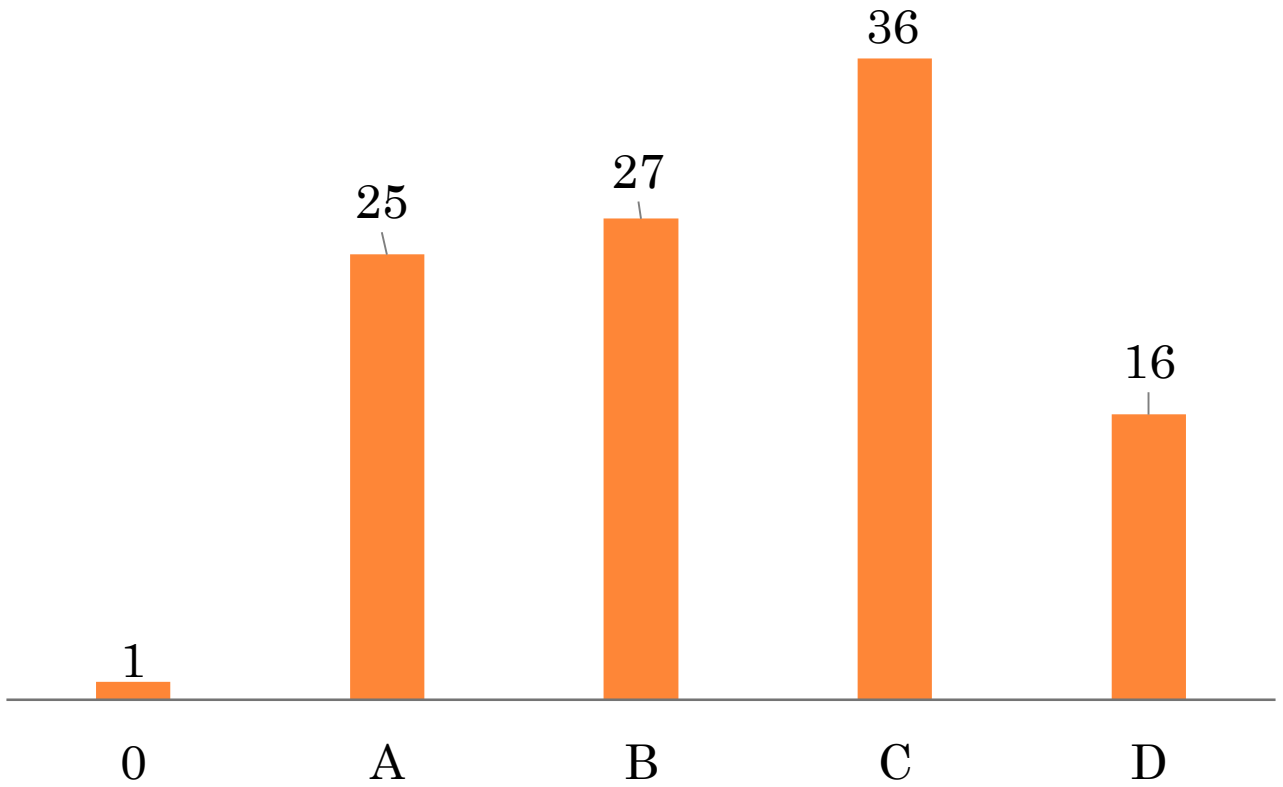
NO. OF LESIONS ON CECT



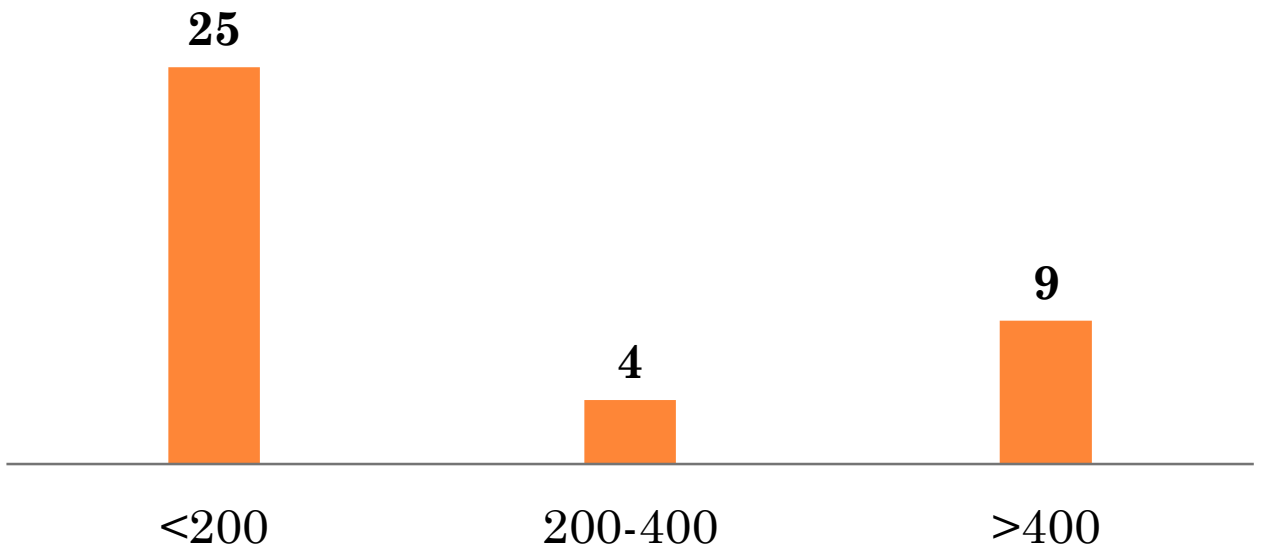
PST (ECOG)



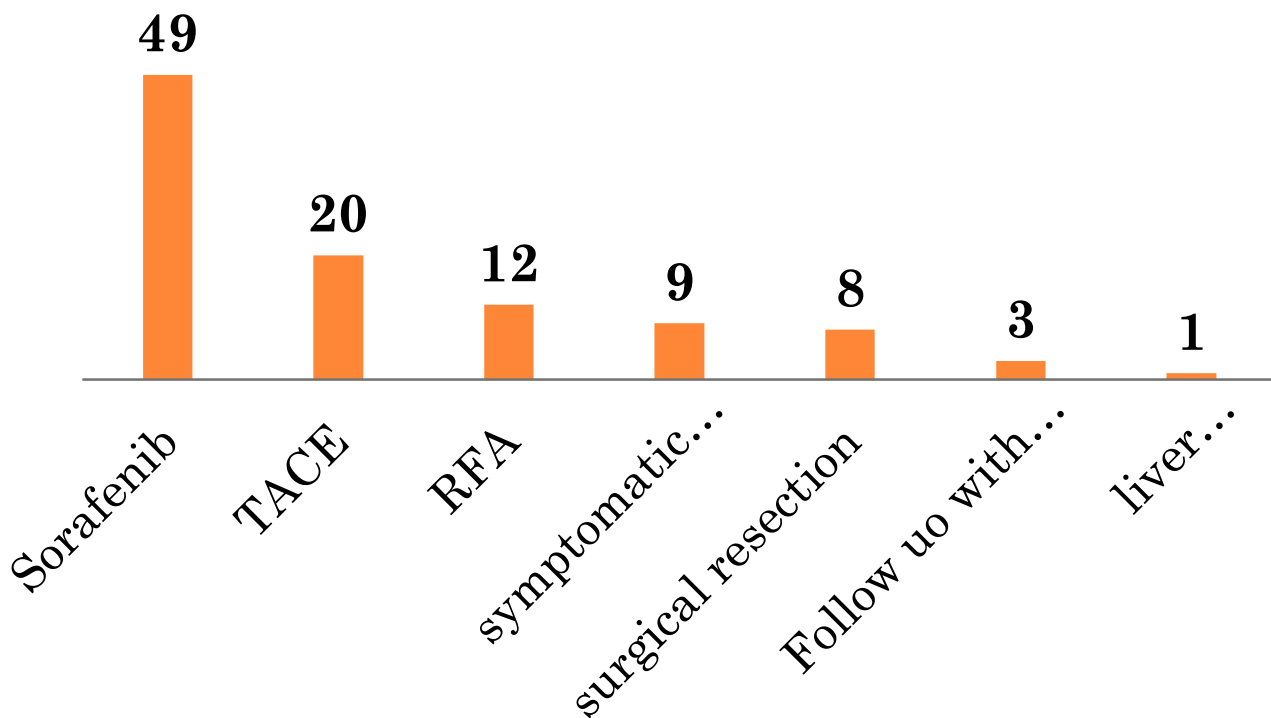
BARCELONA CLINIC FOR LIVER CANCER STAGE



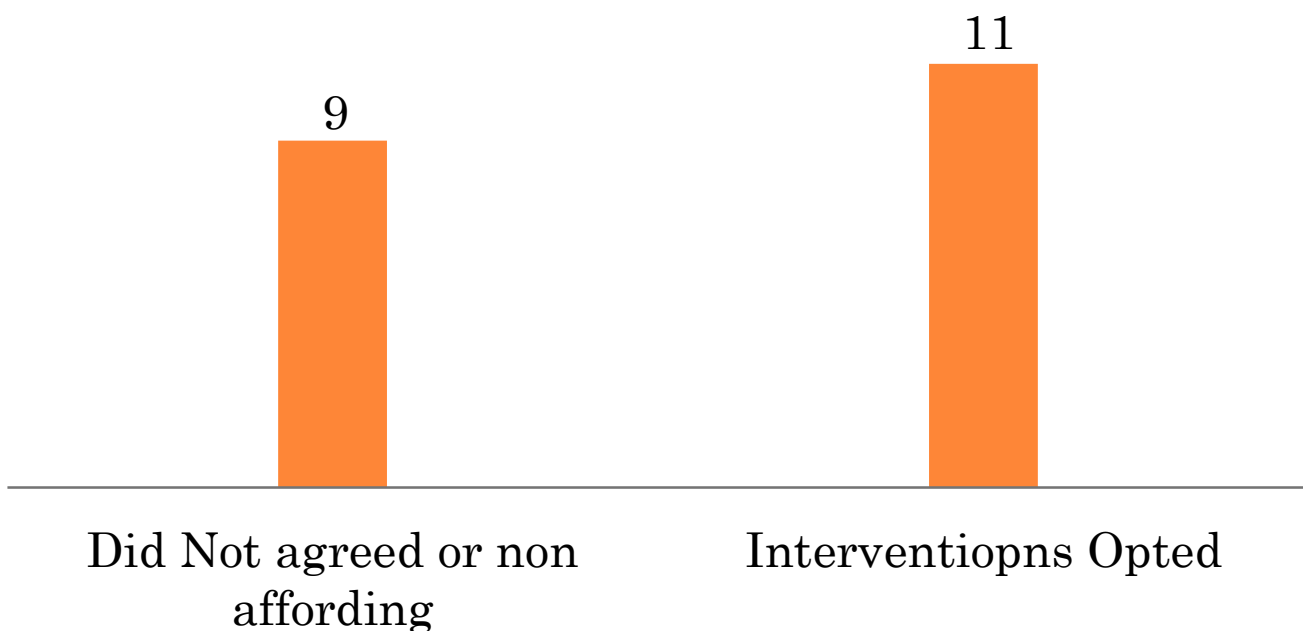
ALPHA FETO PROTEINS



TREATMENT OFFERED



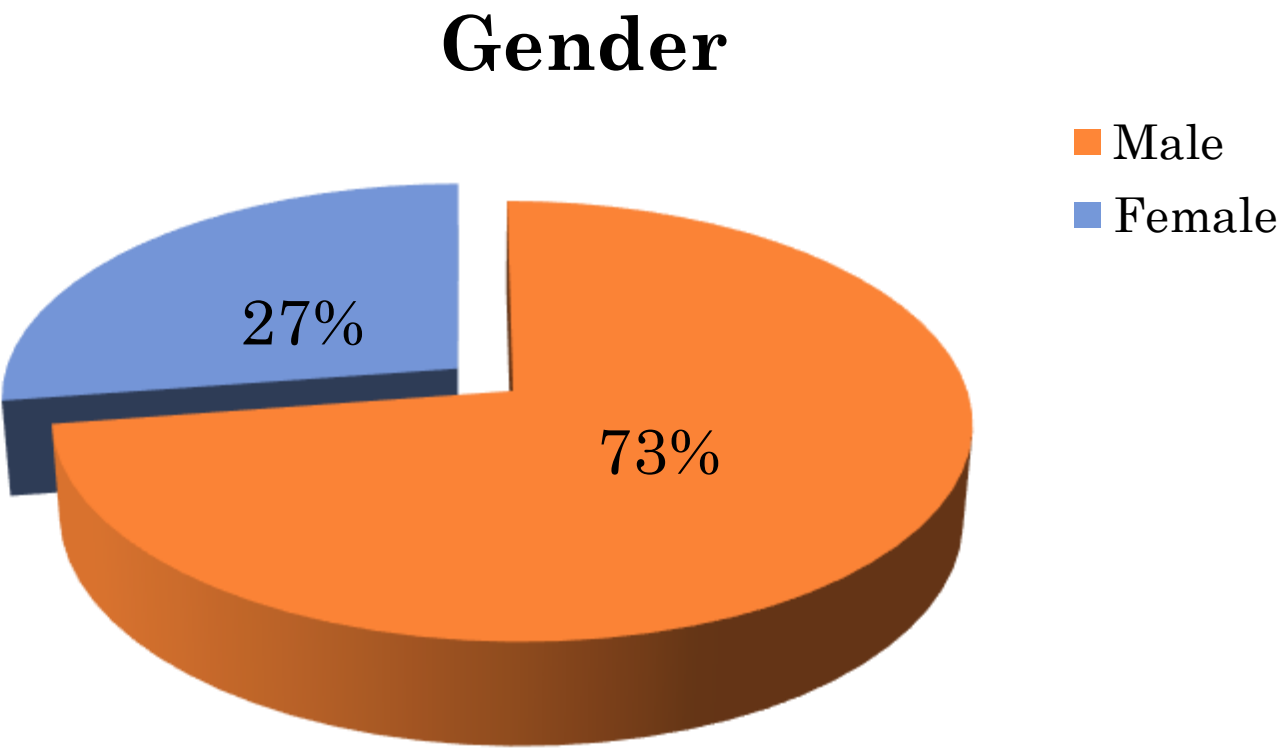
INTERVENTIONS OPTED BY PATIENTS OR NOT



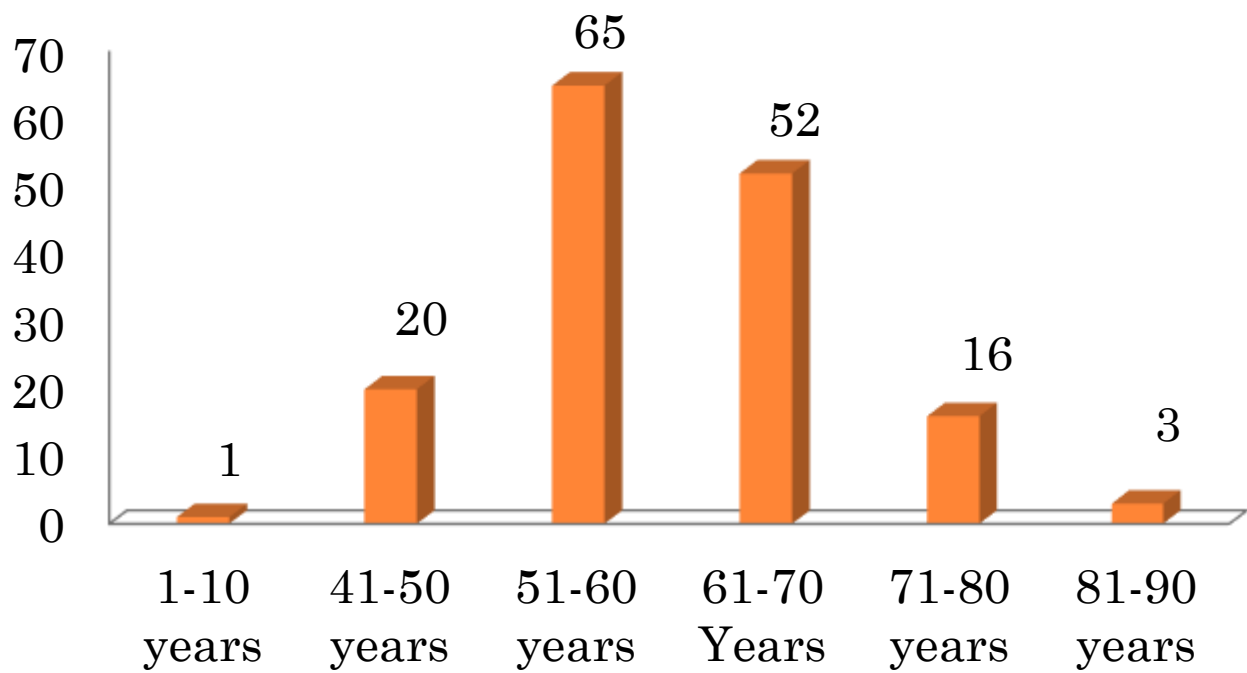
2022

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION.

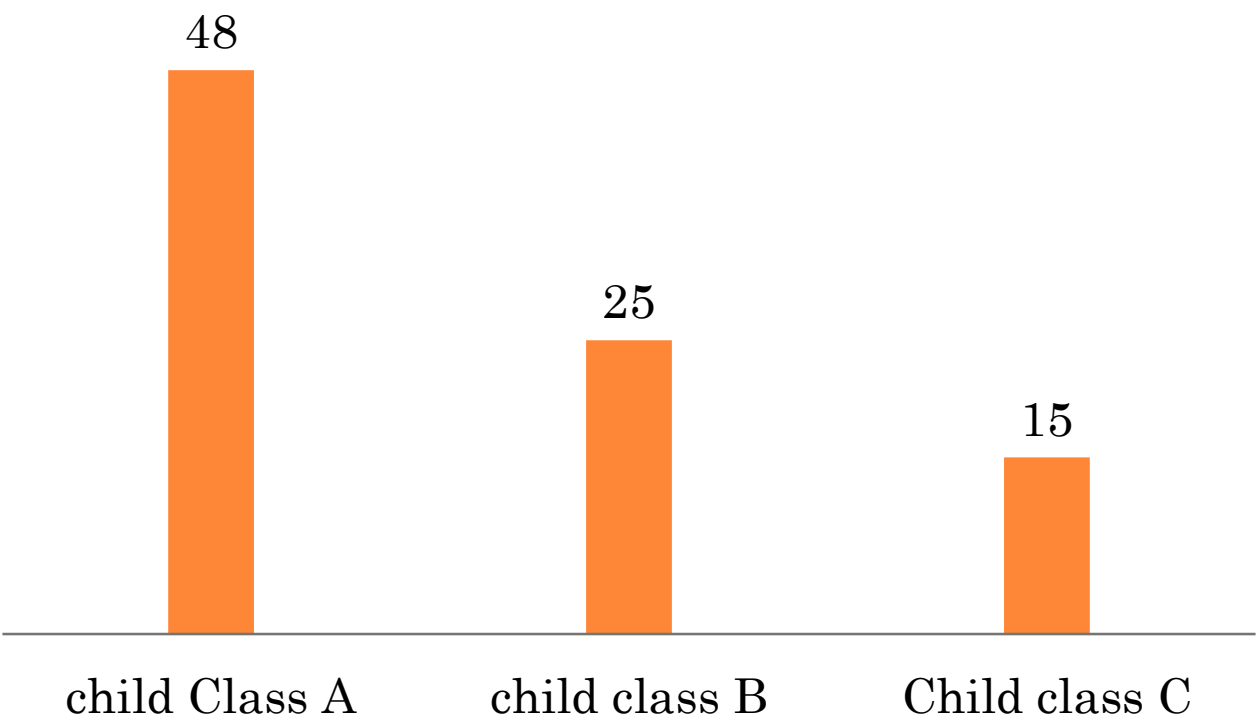
Total No of Patients	157
Male	114
Female	43



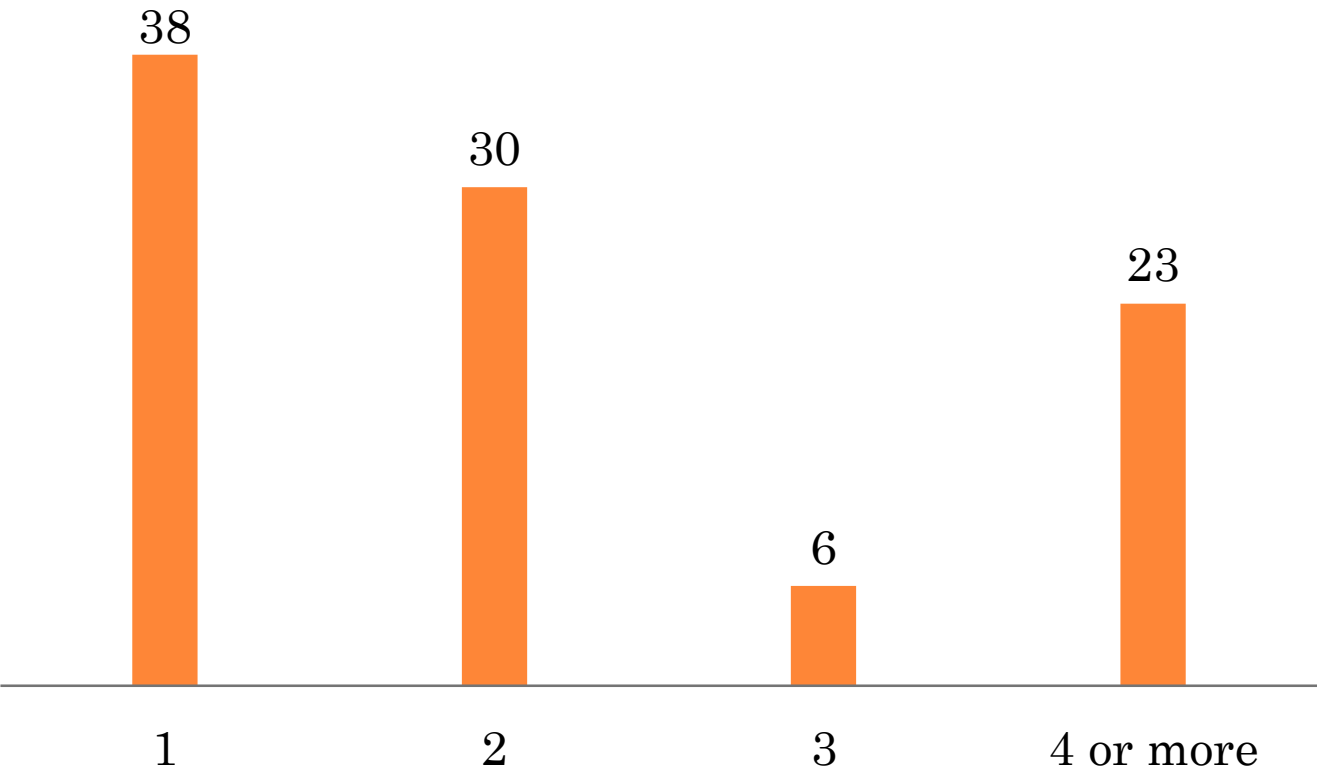
AGE WISE DISTRIBUTION



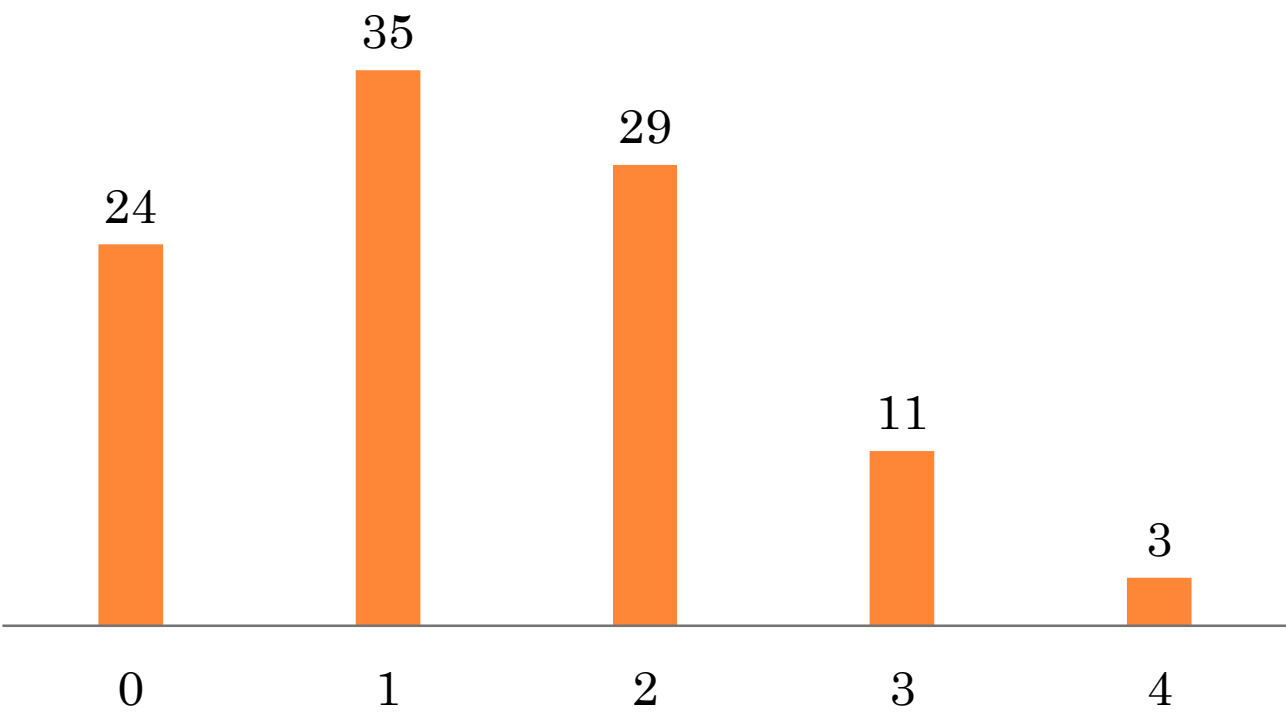
CHILD TURCUTTE CLASS



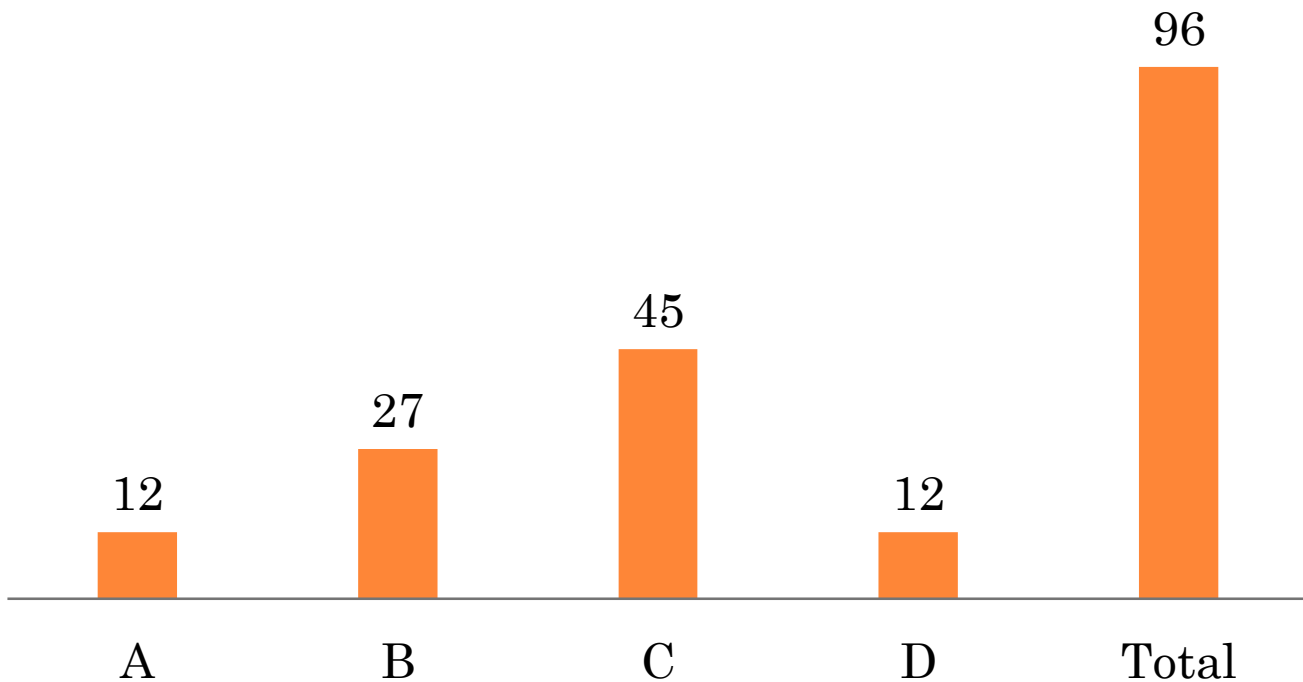
NO. OF LESIONS ON CECT



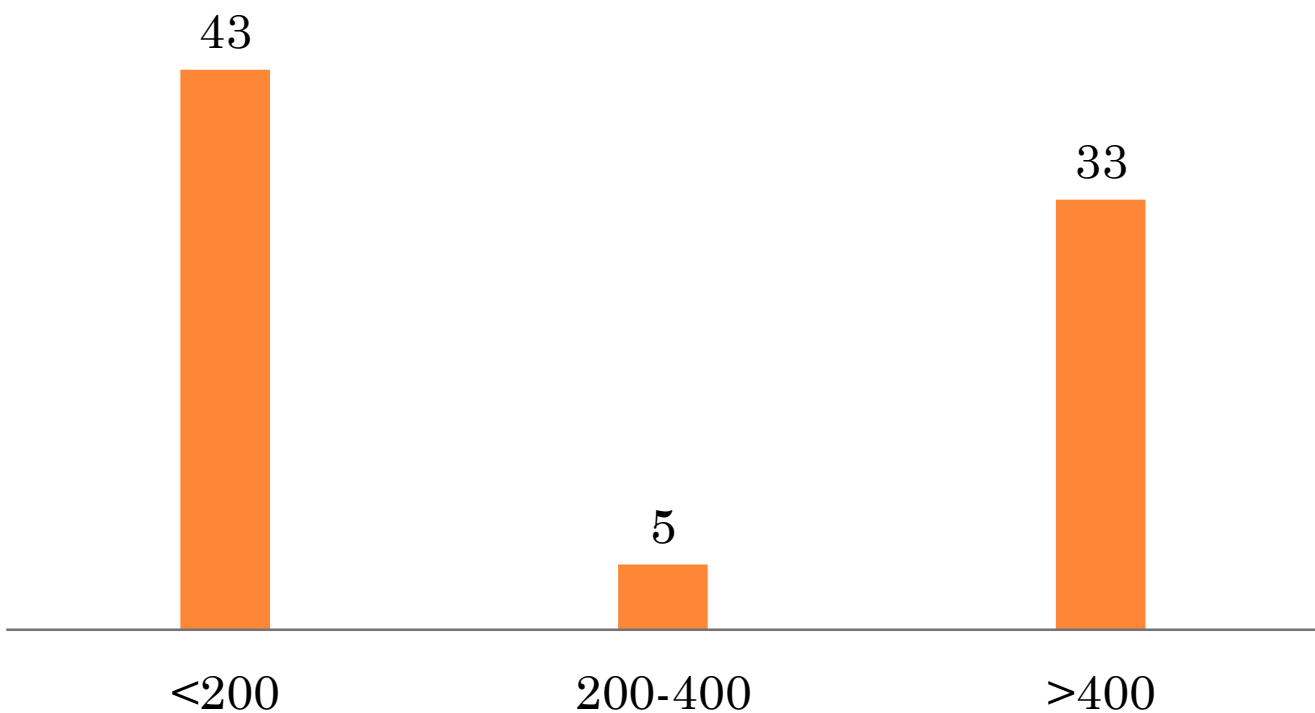
PST (ECOG)



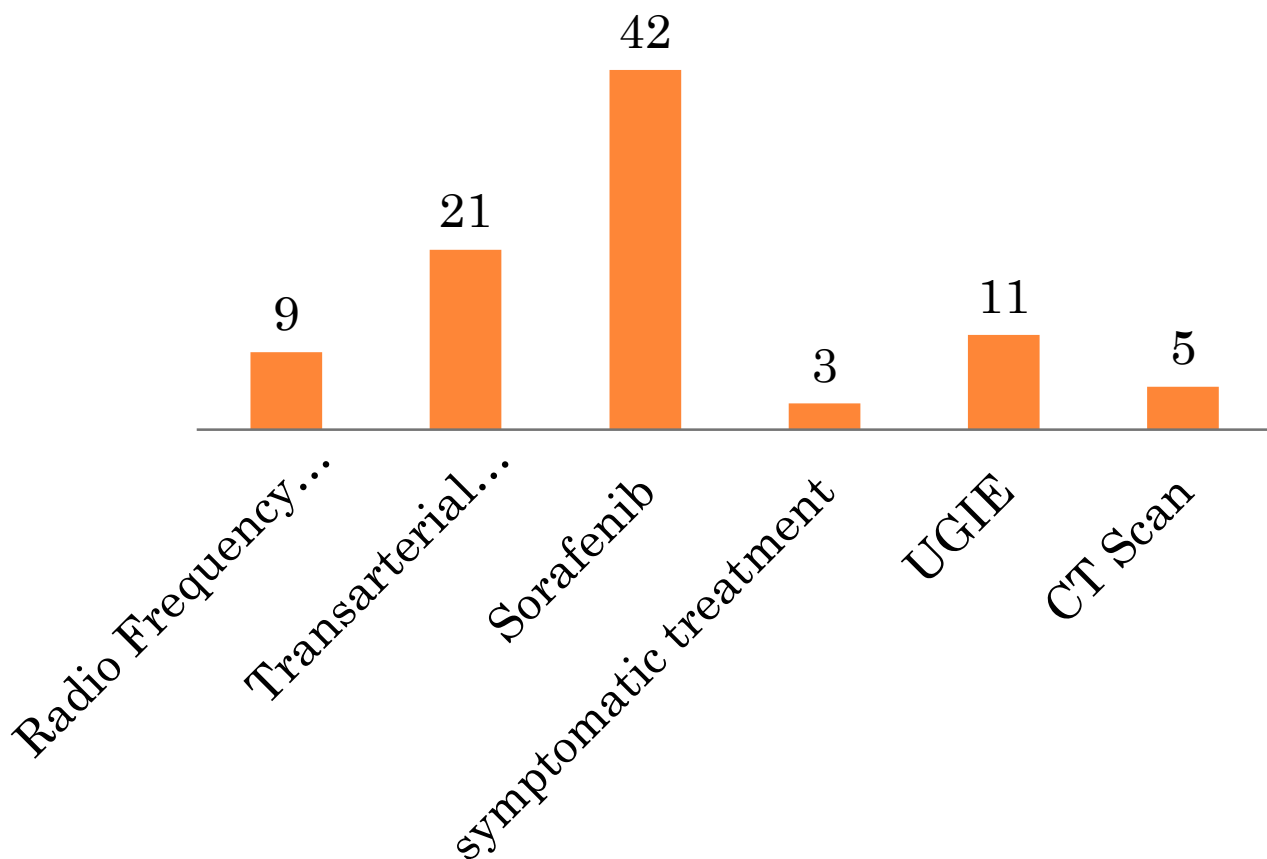
BARCELONA CLINIC FOR LIVER CANCER STAGE



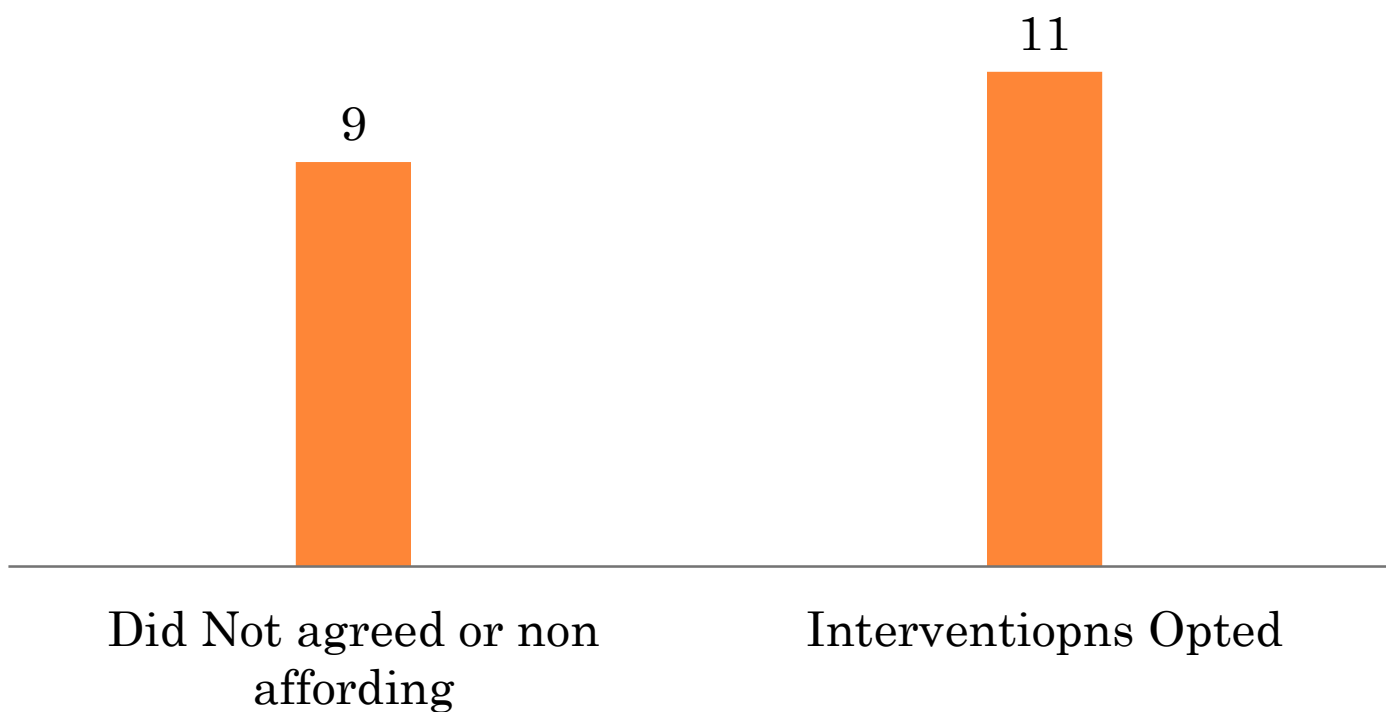
ALPHA FETO PROTEINS



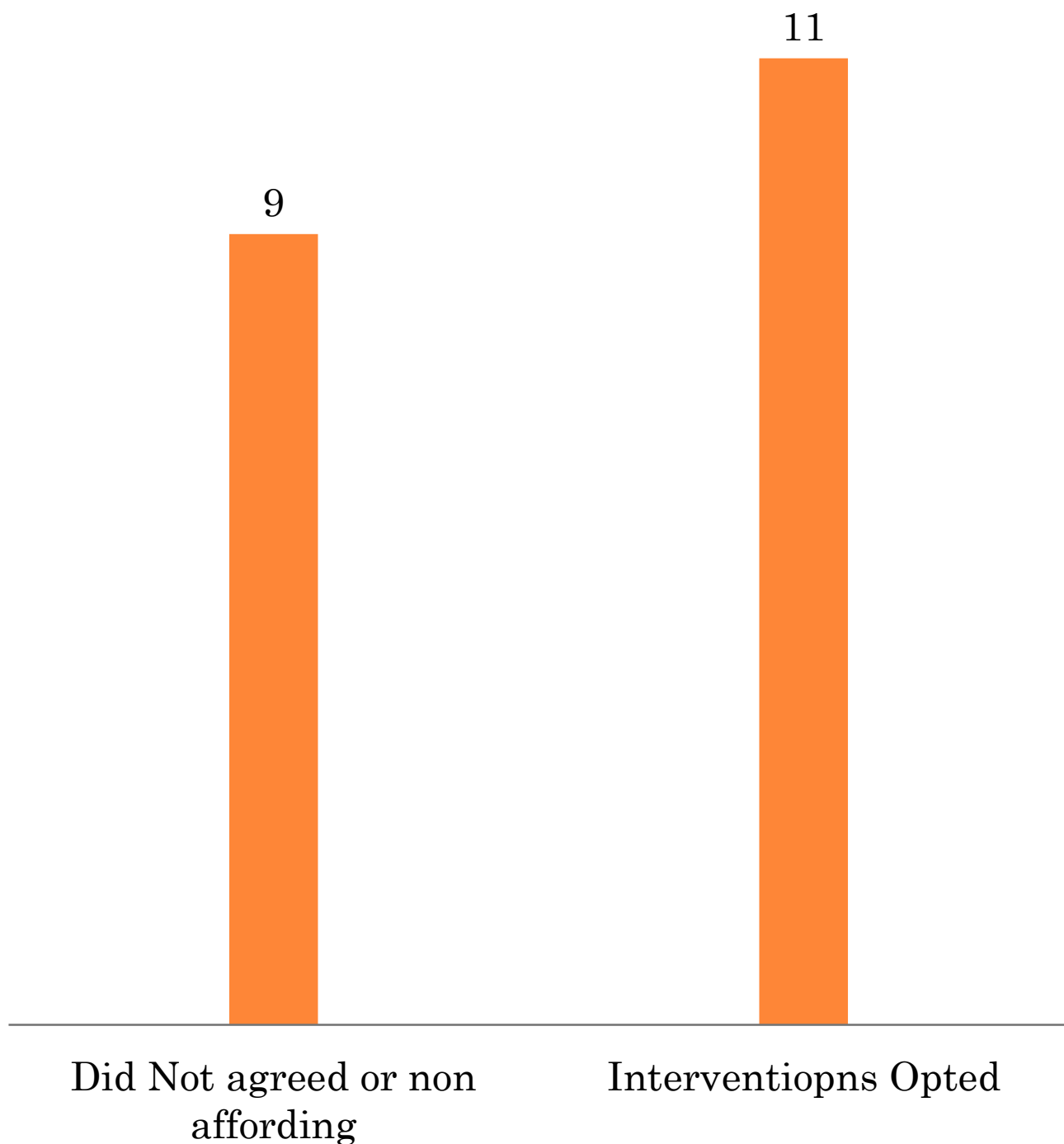
TREATMENT OFFERED



INTERVENTIONS OPTED BY PATIENTS OR NOT



INTERVENTIONS OPTED BY PATIENTS OR NOT



2022

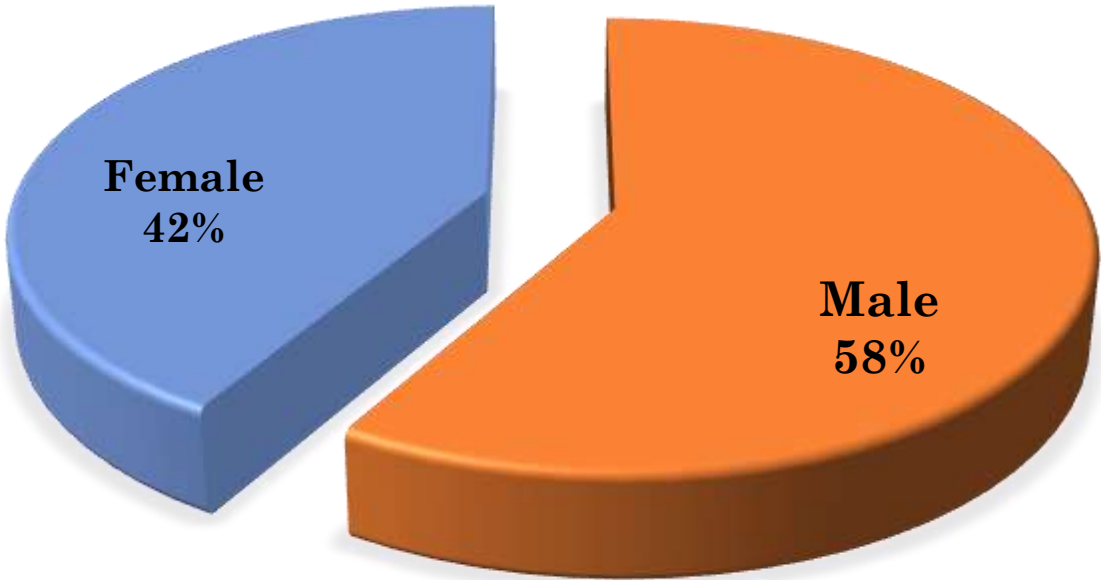
Pancreatitis Clinic Audit

In the year 2022 Center for Liver & digestive diseases have successfully launched a dedicated Pancreatitis clinic, offering its services once weekly on every Tuesday. 118 patients have already been registered with maximum number presenting as acute pancreatitis.

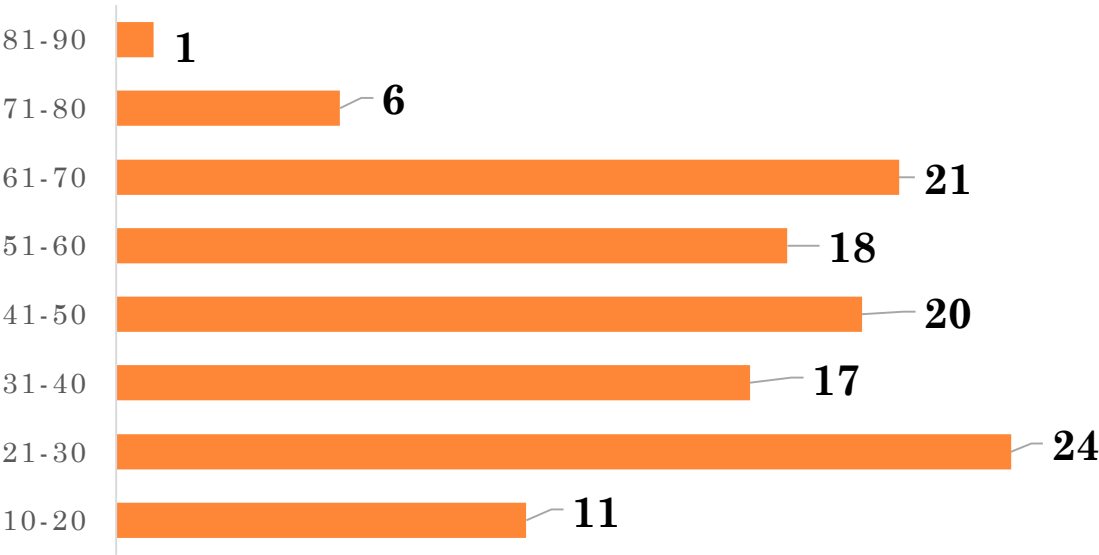


TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION.

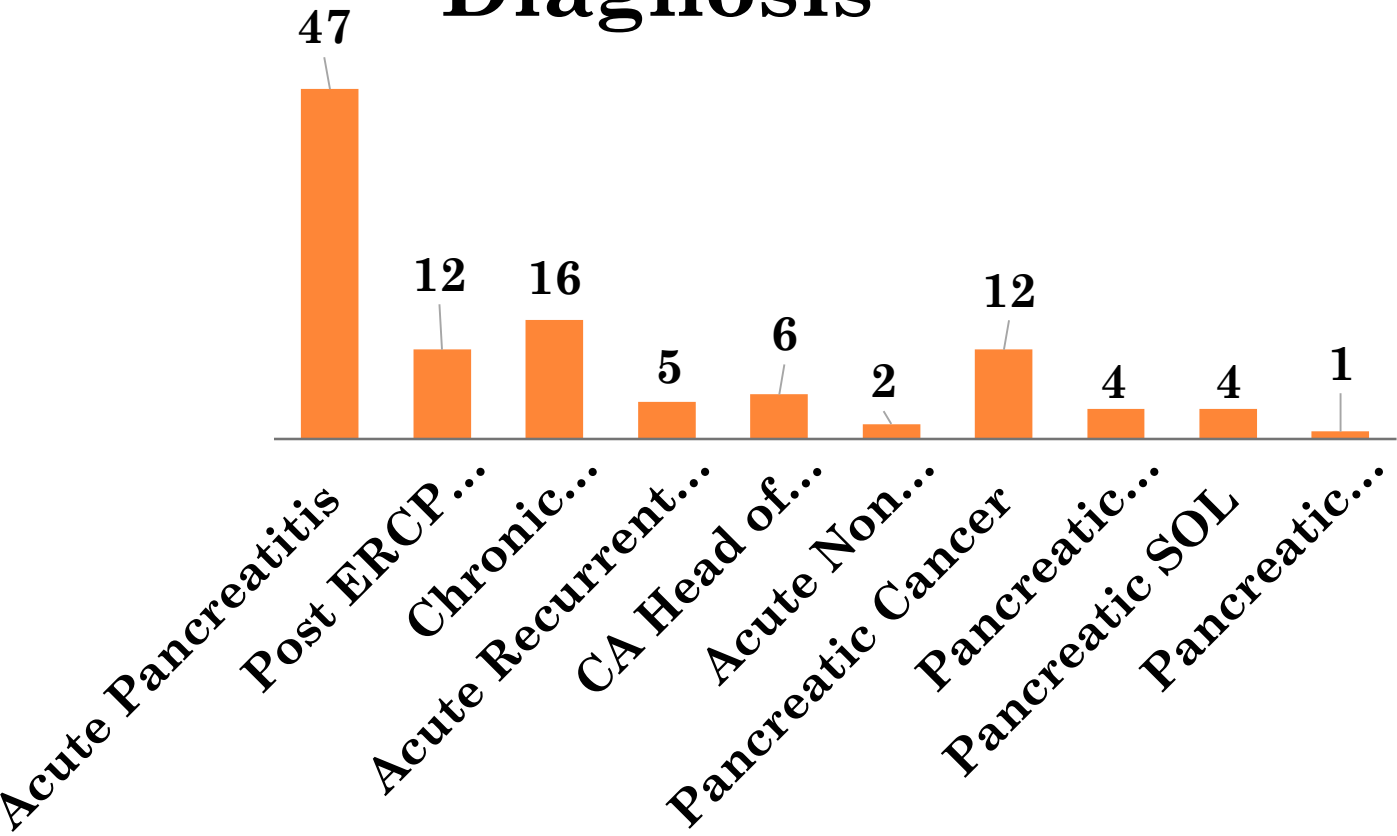
Total No of Patients	118
Male	69
Female	49



AGE WISE DISTRIBUTION

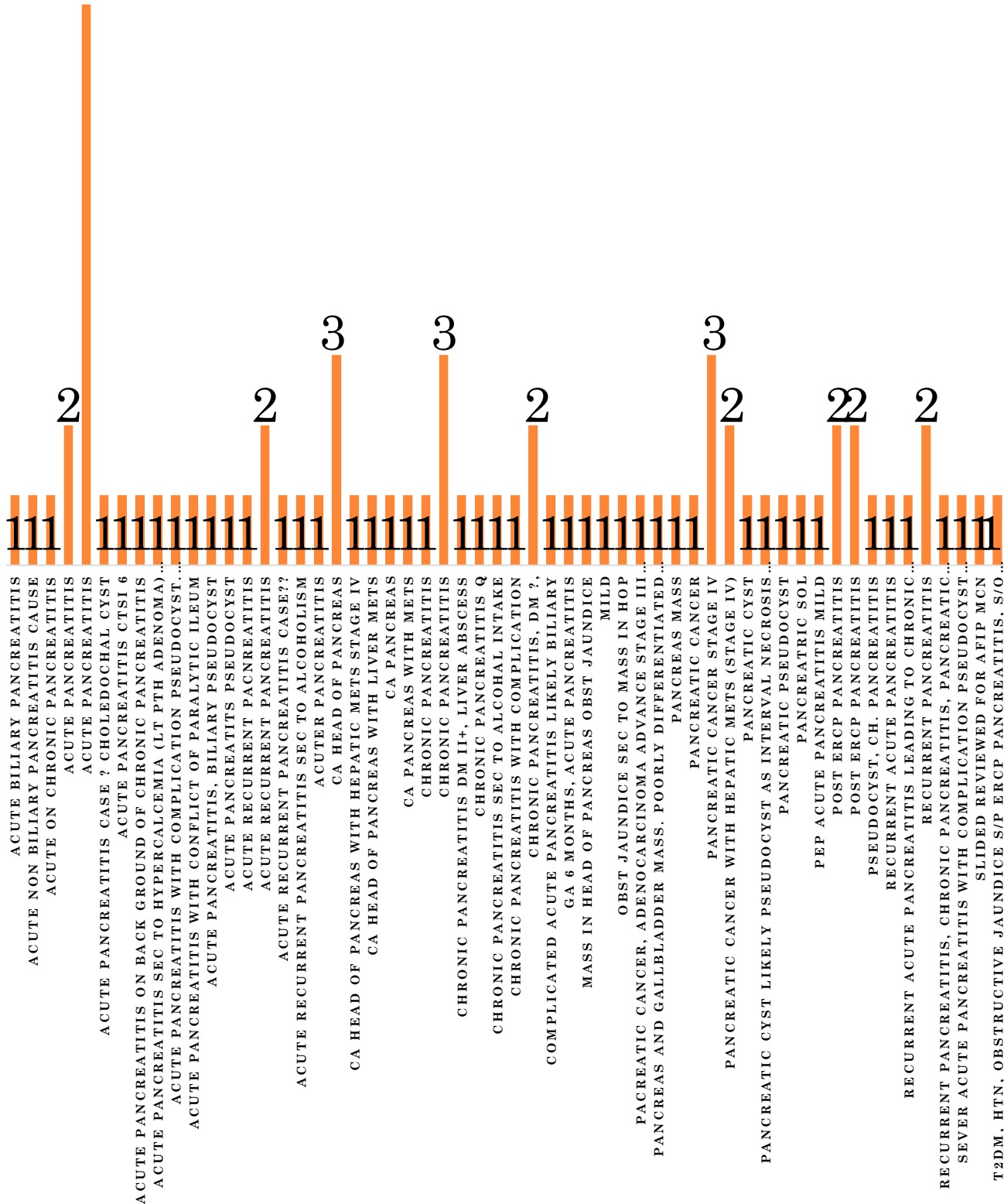


Diagnosis



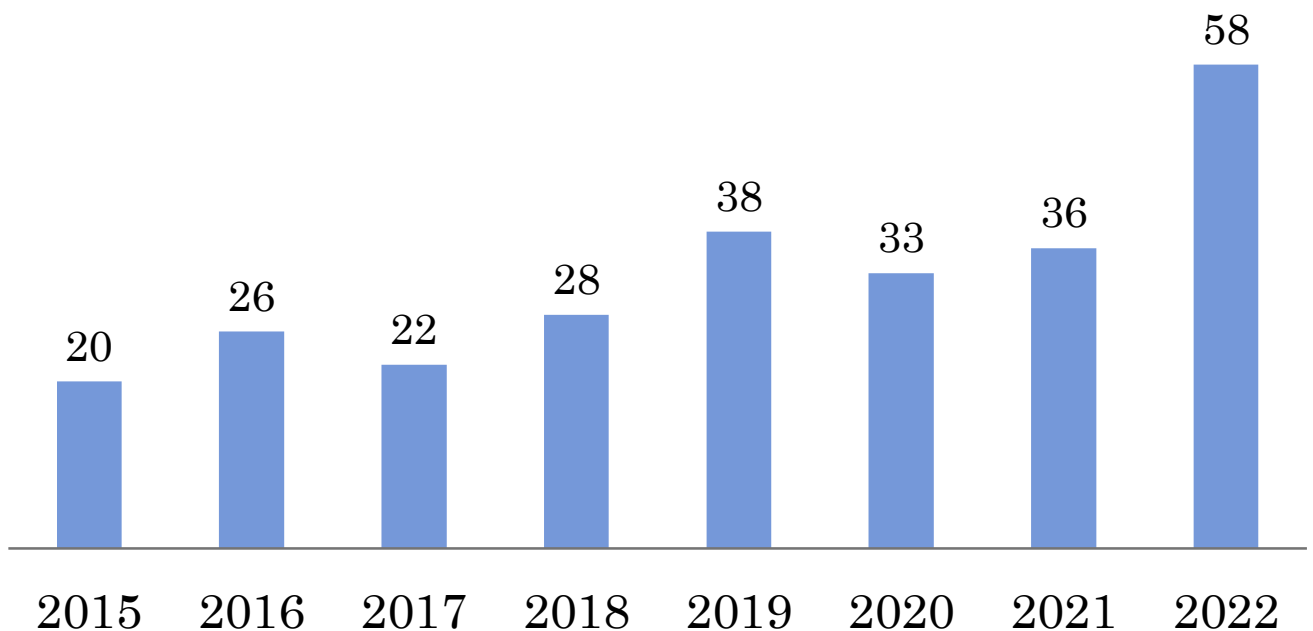
FINAL DIAGNOSIS

8



IBD Audit

Inflammatory bowel disease has become a global disease with accelerating incidence in newly industrialized countries where societies are being westernized with a prevalence of 0.3%. However, the incidence varies from region to region. Furthermore, there is variability in the incidence of crohn's disease and ulcerative colitis. Center of Liver and digestive diseases has taken a step forward and established a dedicated IBD clinic. So far 261 patients have been enrolled and are in follow up. In 2022, 58 new patients enrolled out of which 2 patients had crohn's disease. Most of the patients are of Punjabi descend. Maximum patients responded with Sulfasalazine and Azathioprine (+steroids).

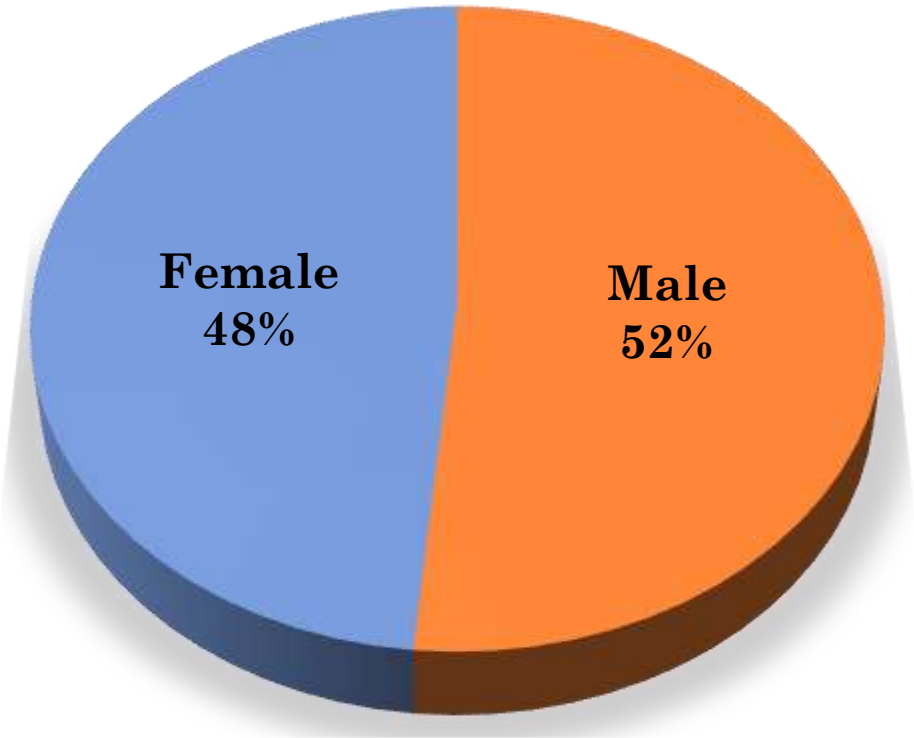


2020

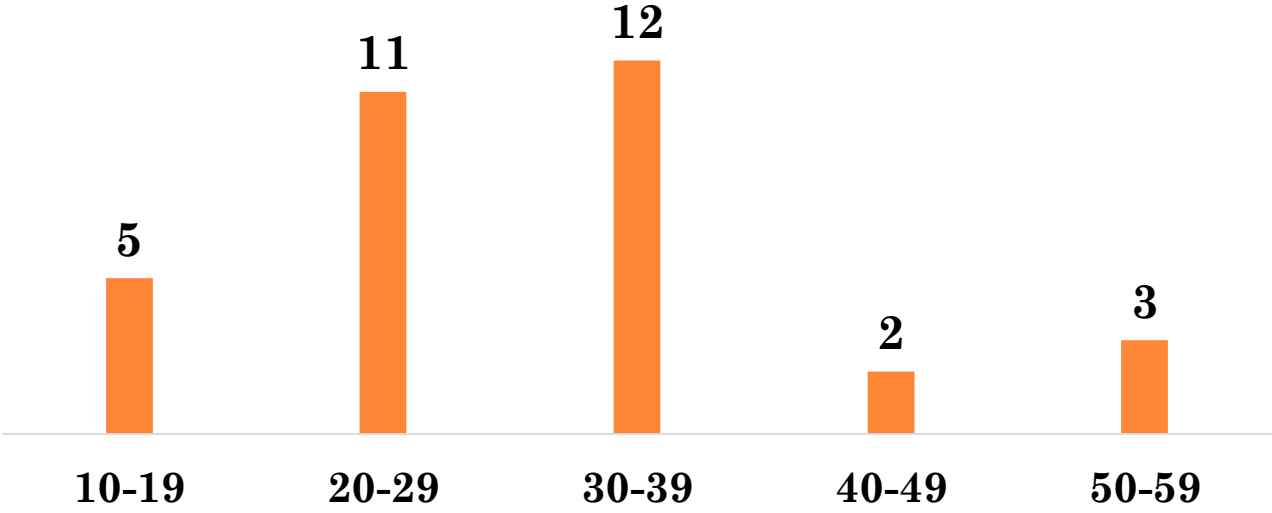
TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

TOTAL NO OF PATIENTS	33
MALE	17
FEMALE	16

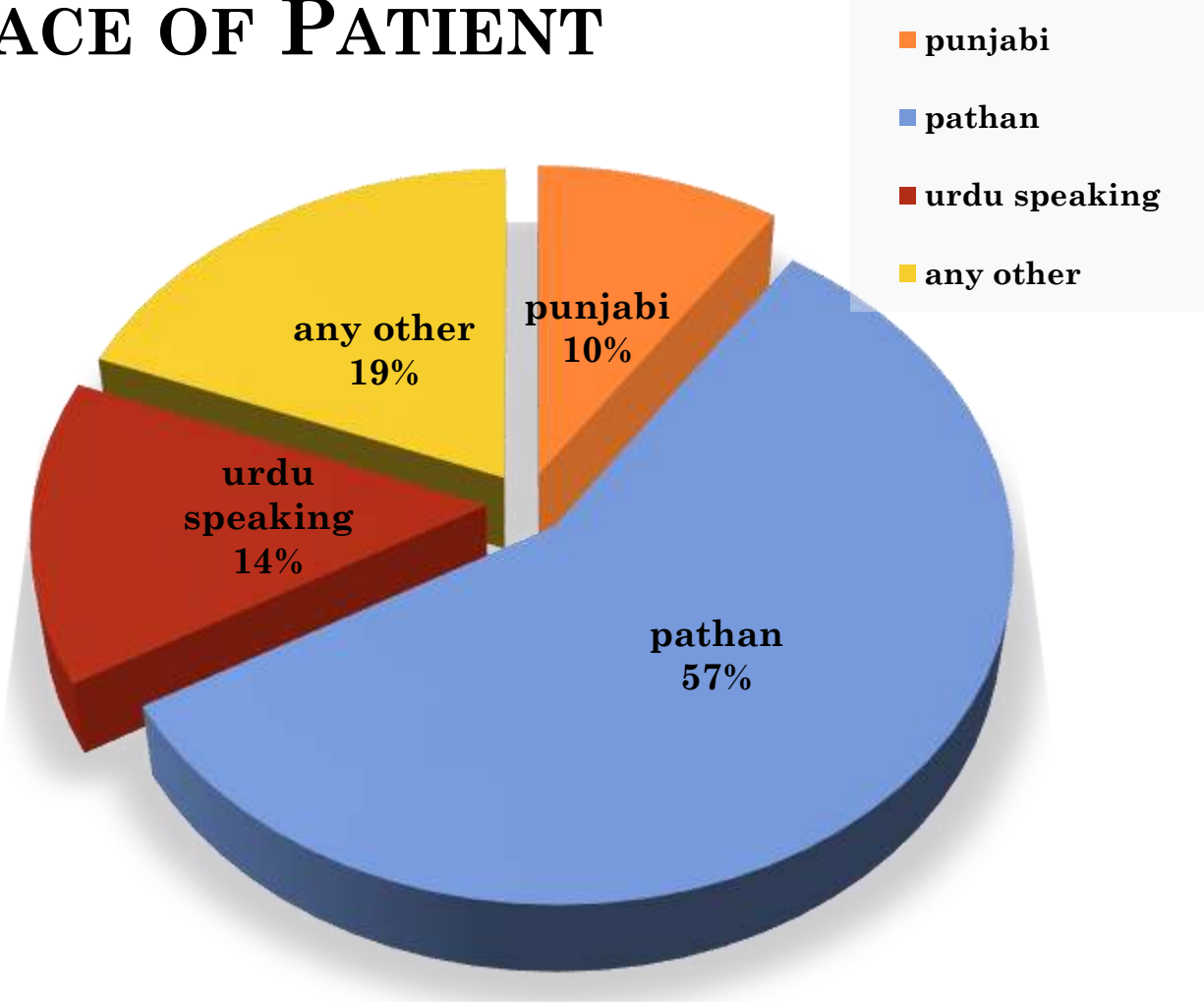
Gender



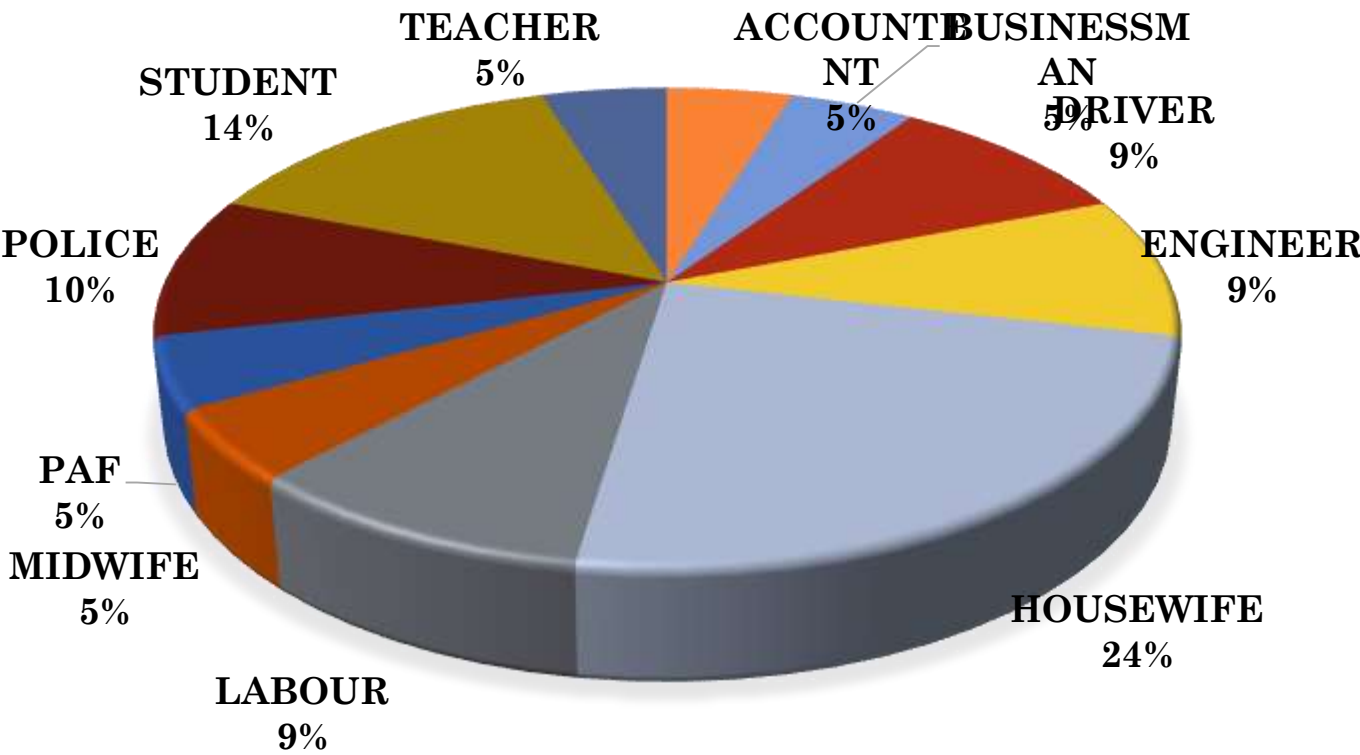
AGE WISE DISTRIBUTION



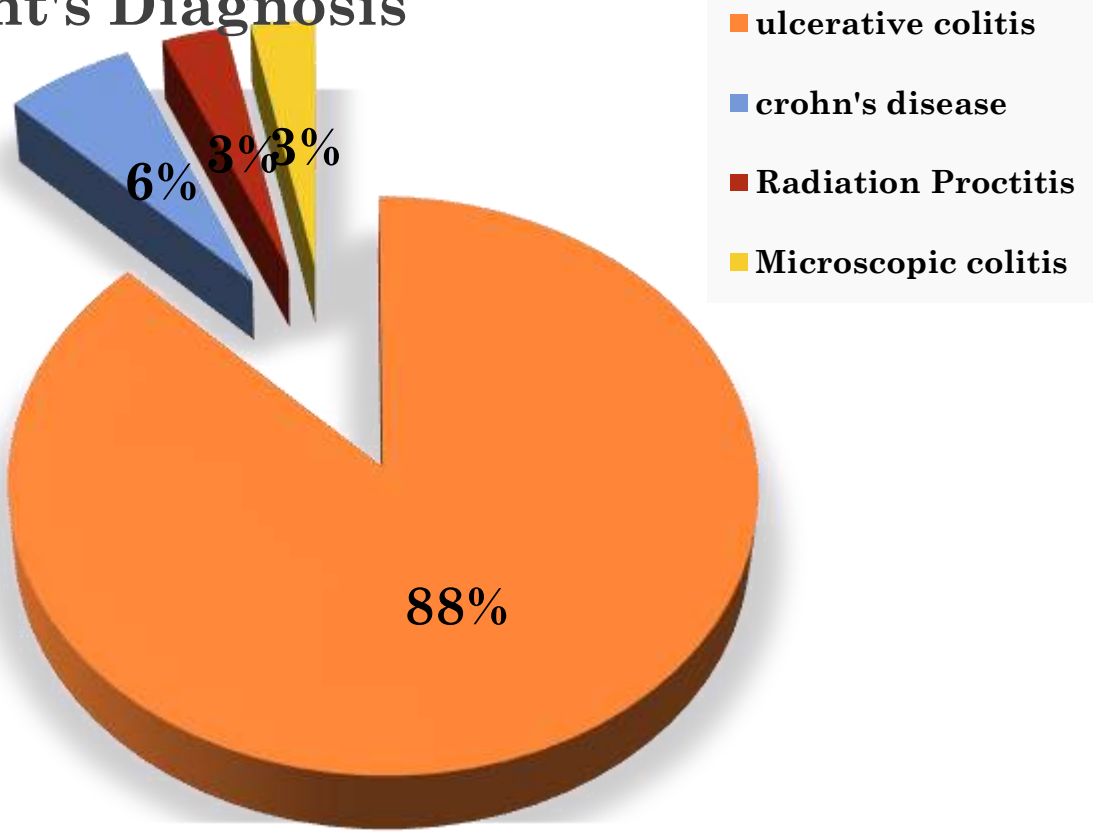
RACE OF PATIENT



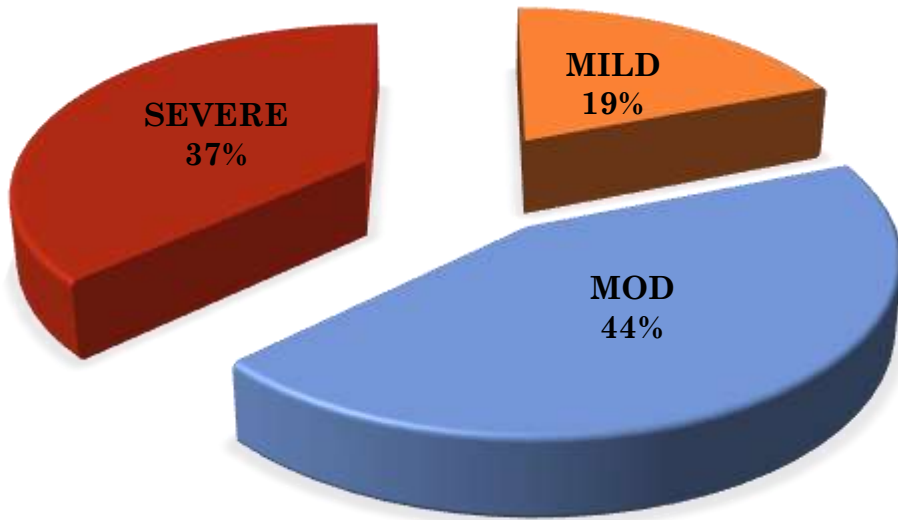
PATIENT'S PROFESSION



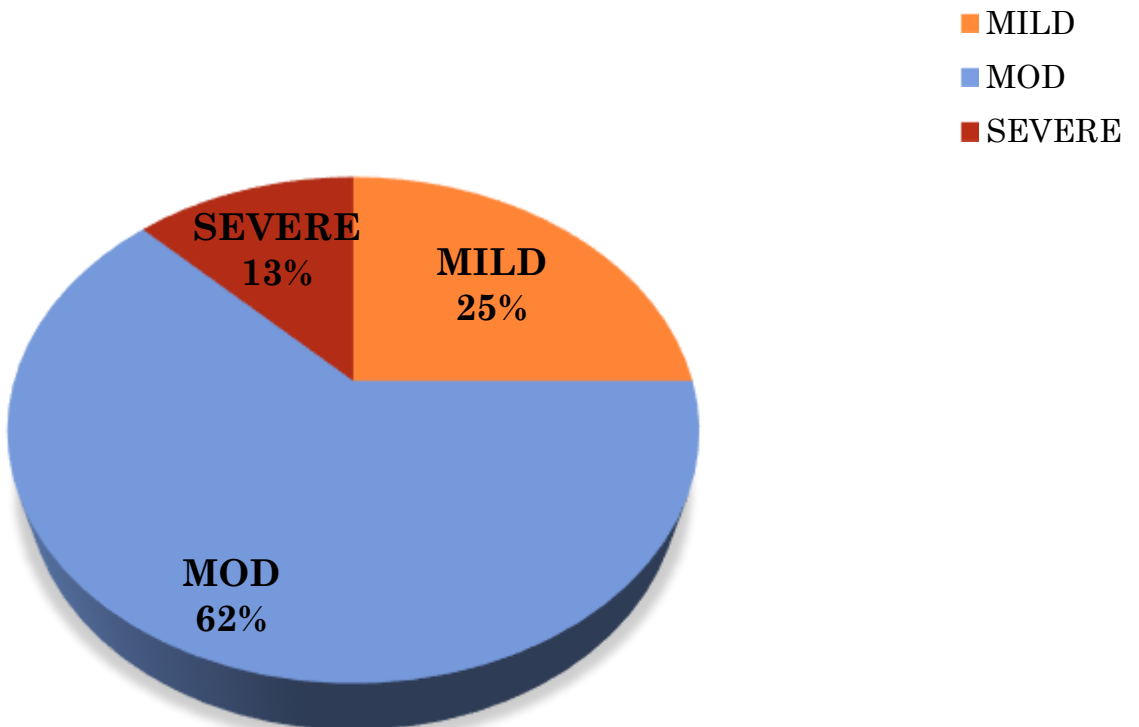
Patient's Diagnosis



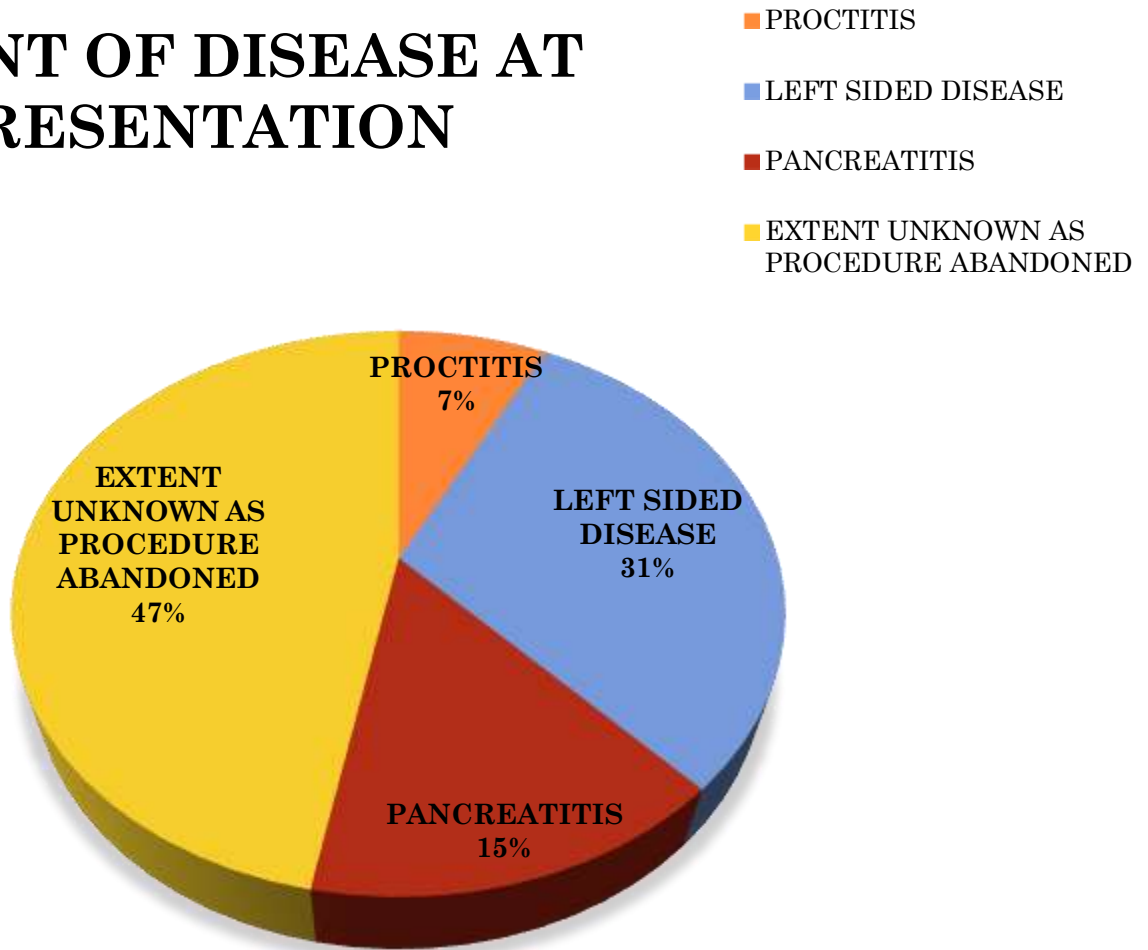
COLONOSCOPIC SEVERITY AT PRESENTATION



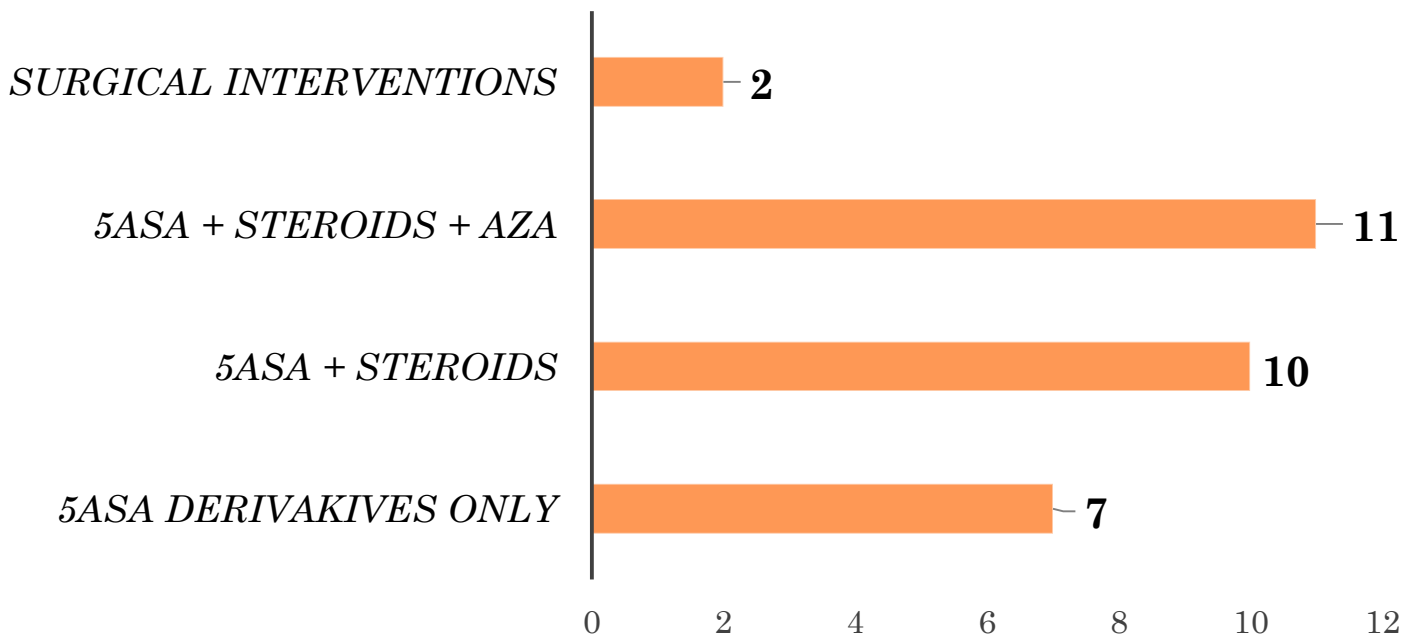
HISTOLOGICAL SEVERITY AT PRESENTATION



EXTENT OF DISEASE AT PRESENTATION

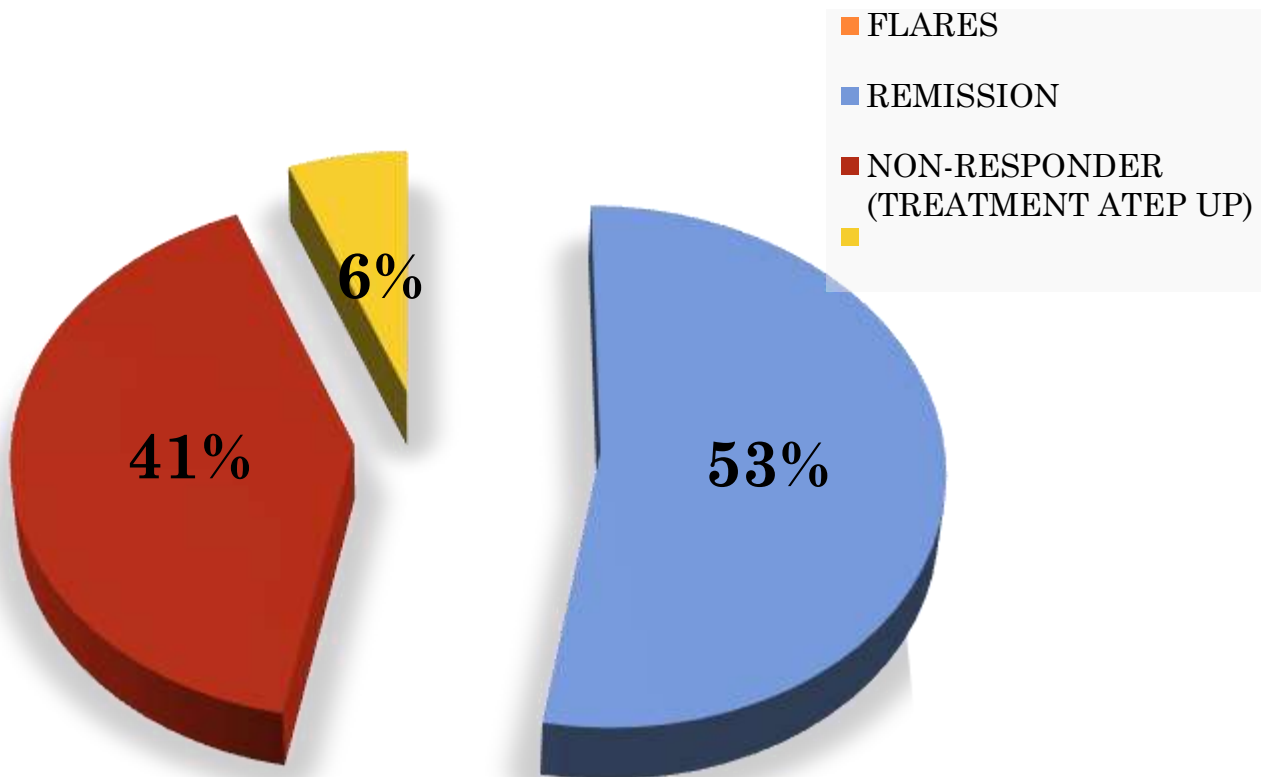


TREATMENT OFFERED



FOLLOW UP IN IBD CLINIC:-

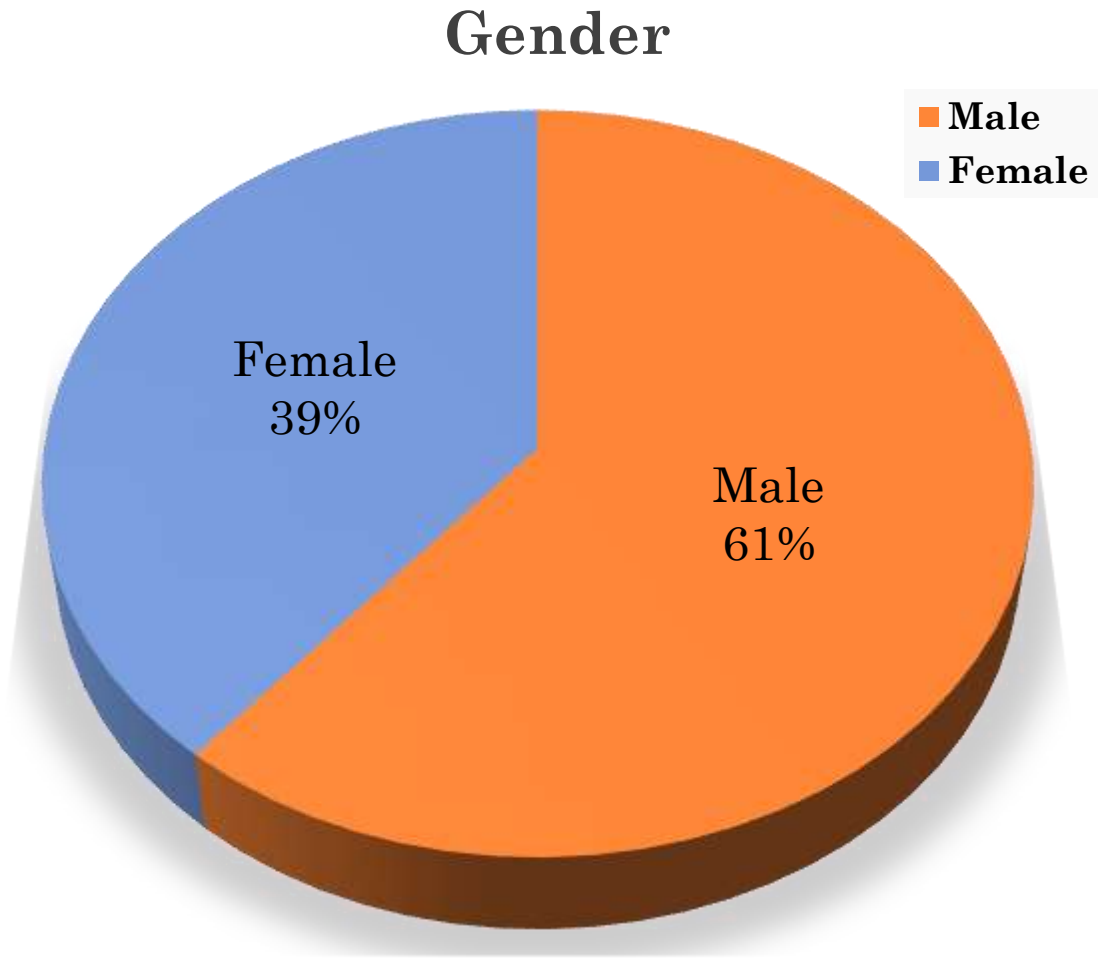
TOTAL PATIENTS REGISTER IN IBD CLINIC SINCE 2015 = 170
FOLLOW UP PATIENTS IN IBD CLINIC YEAR 2020 = 61



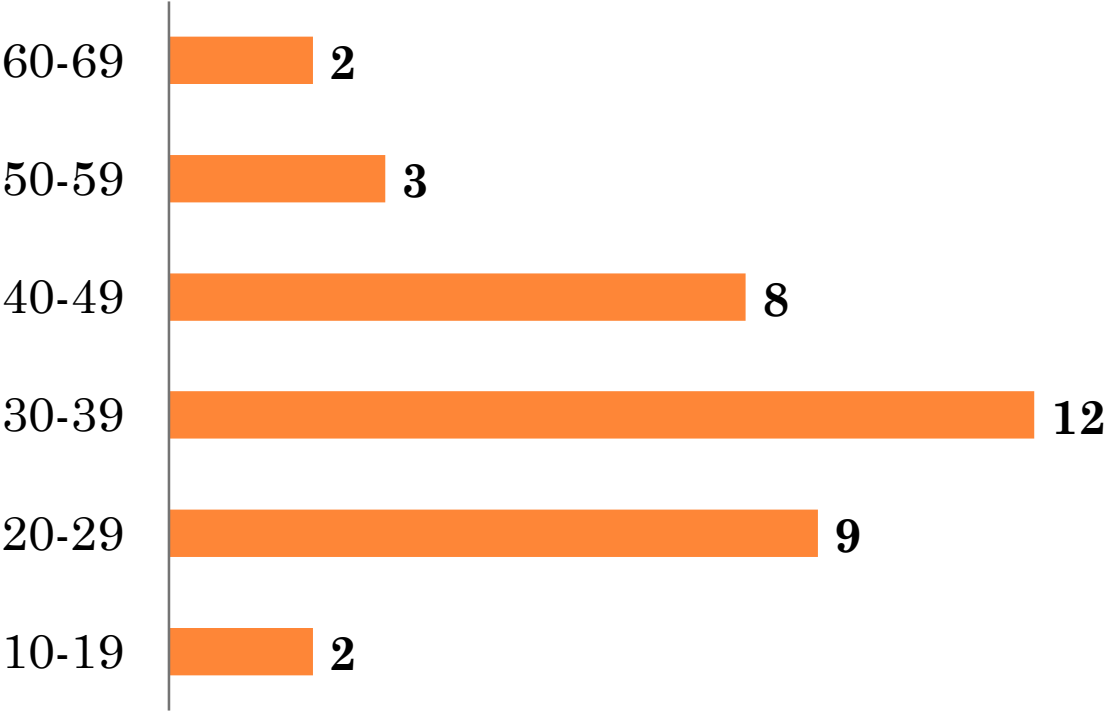
2021

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

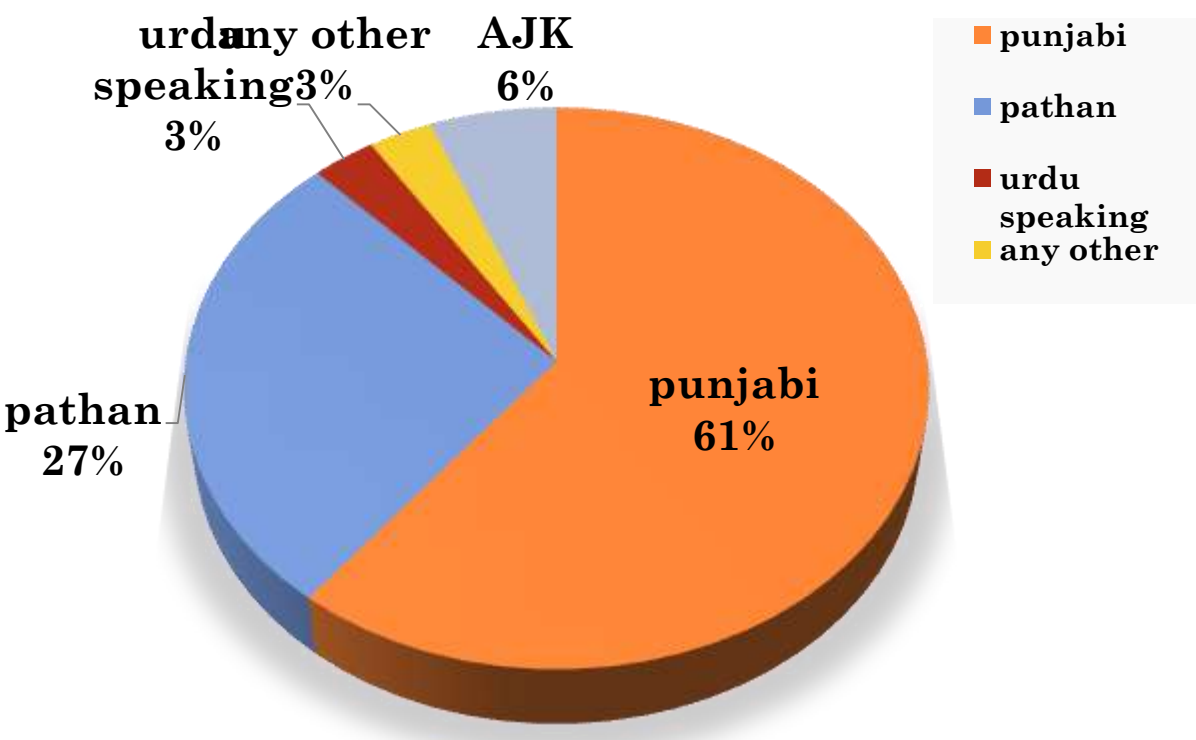
TOTAL NO OF PATIENTS	36
MALE	22
FEMALE	14



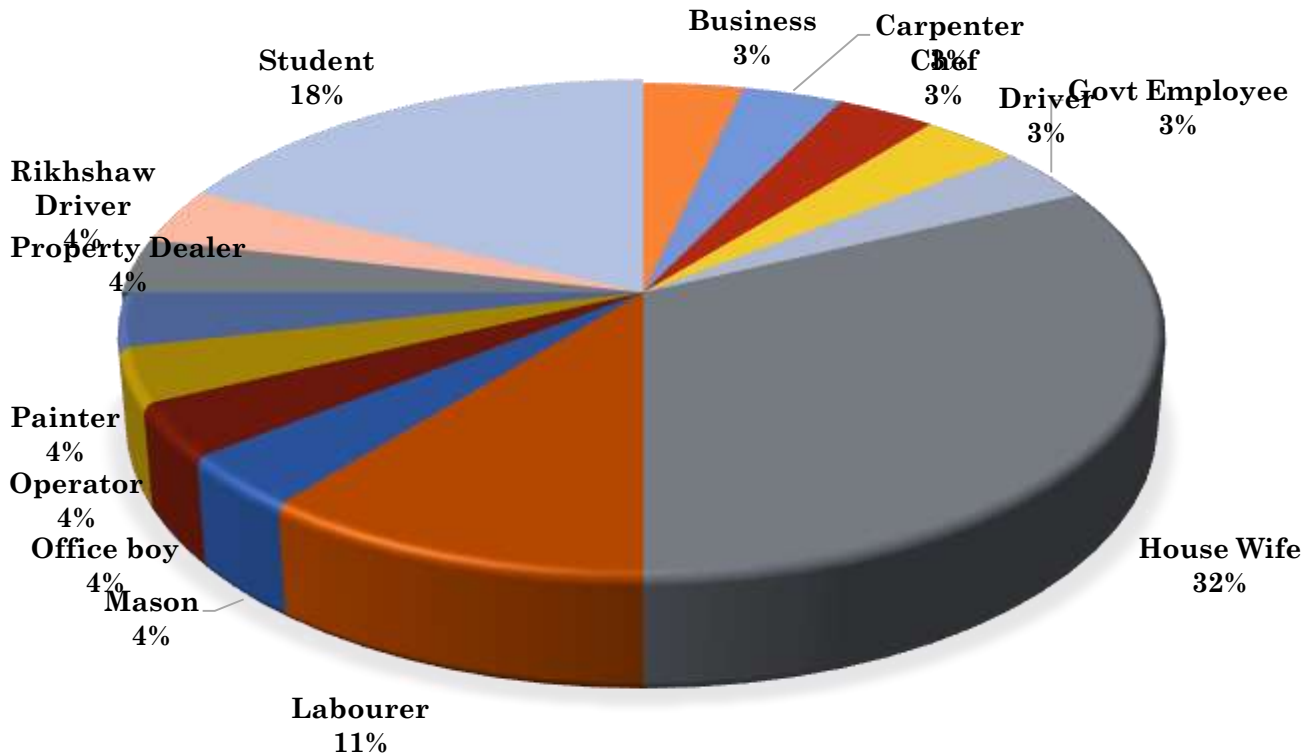
AGE WISE DISTRIBUTION



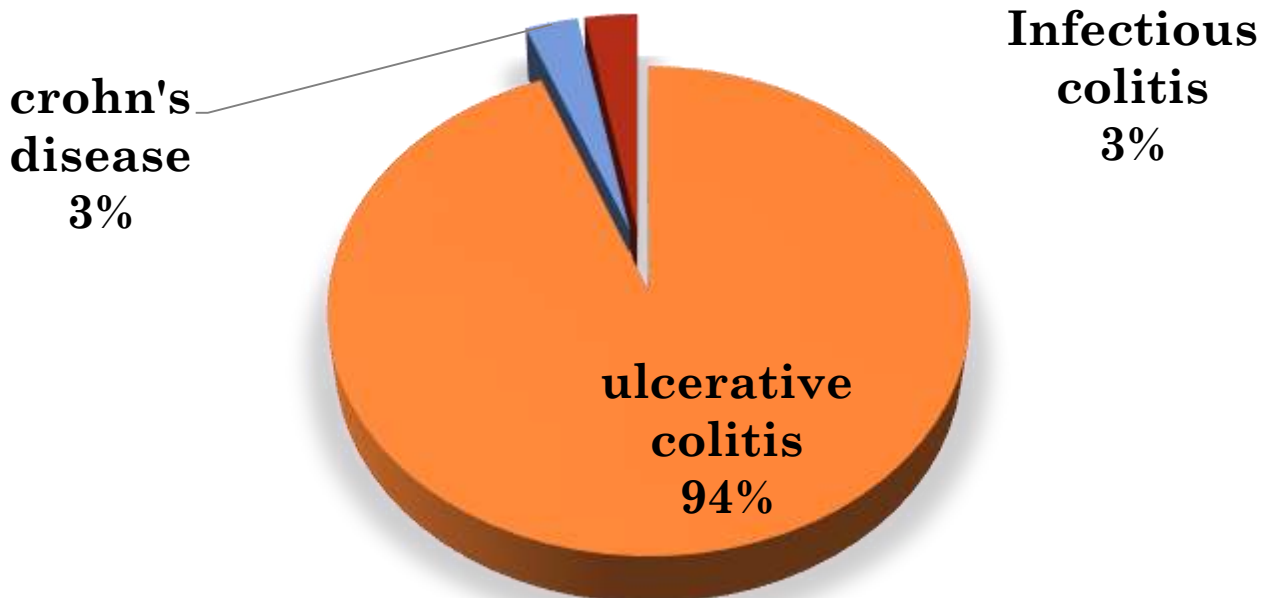
RACE OF PATIENT



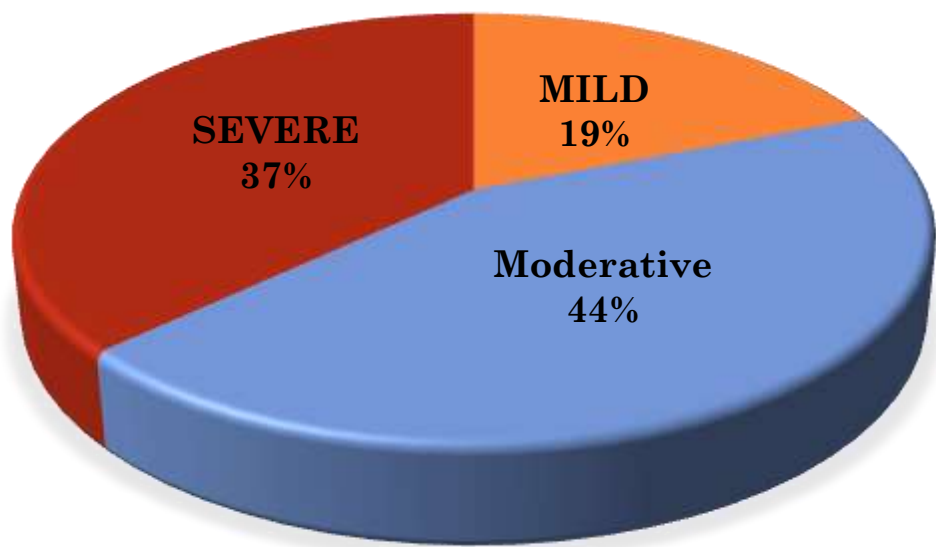
PATIENT'S PROFESSION



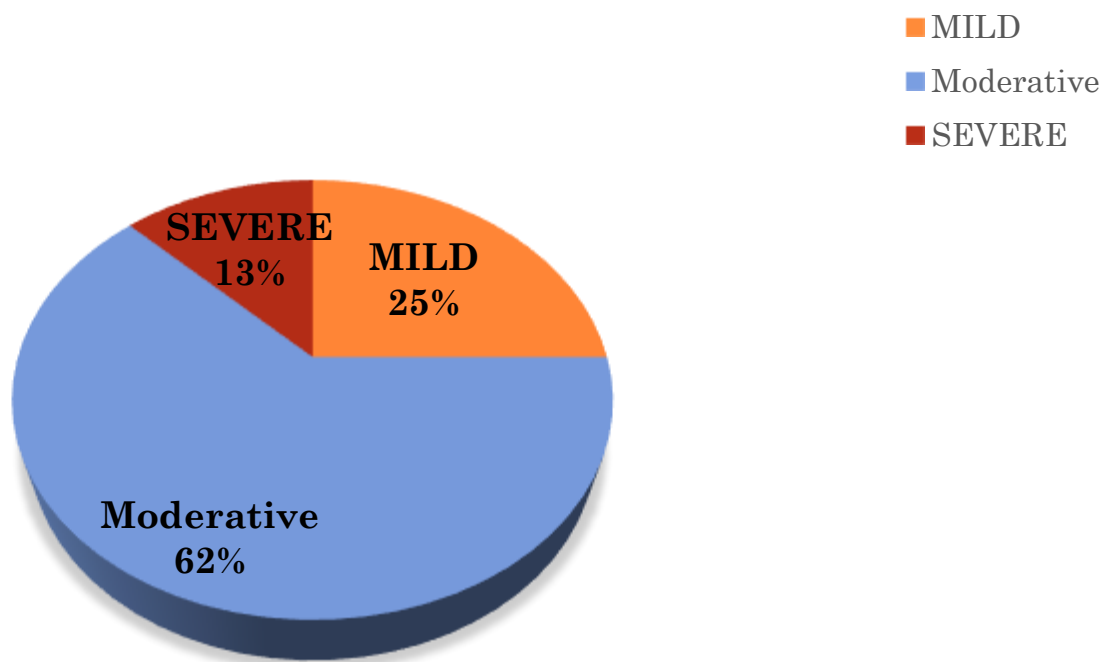
Patient's Diagnosis



COLONOSCOPIC SEVERITY AT PRESENTATION

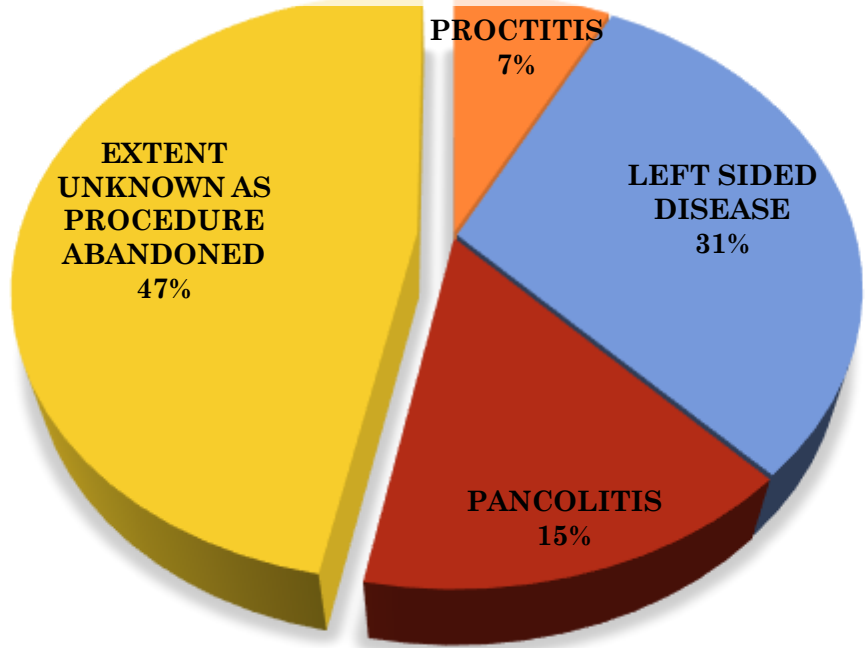


HISTOLOGICAL SEVERITY AT PRESENTATION

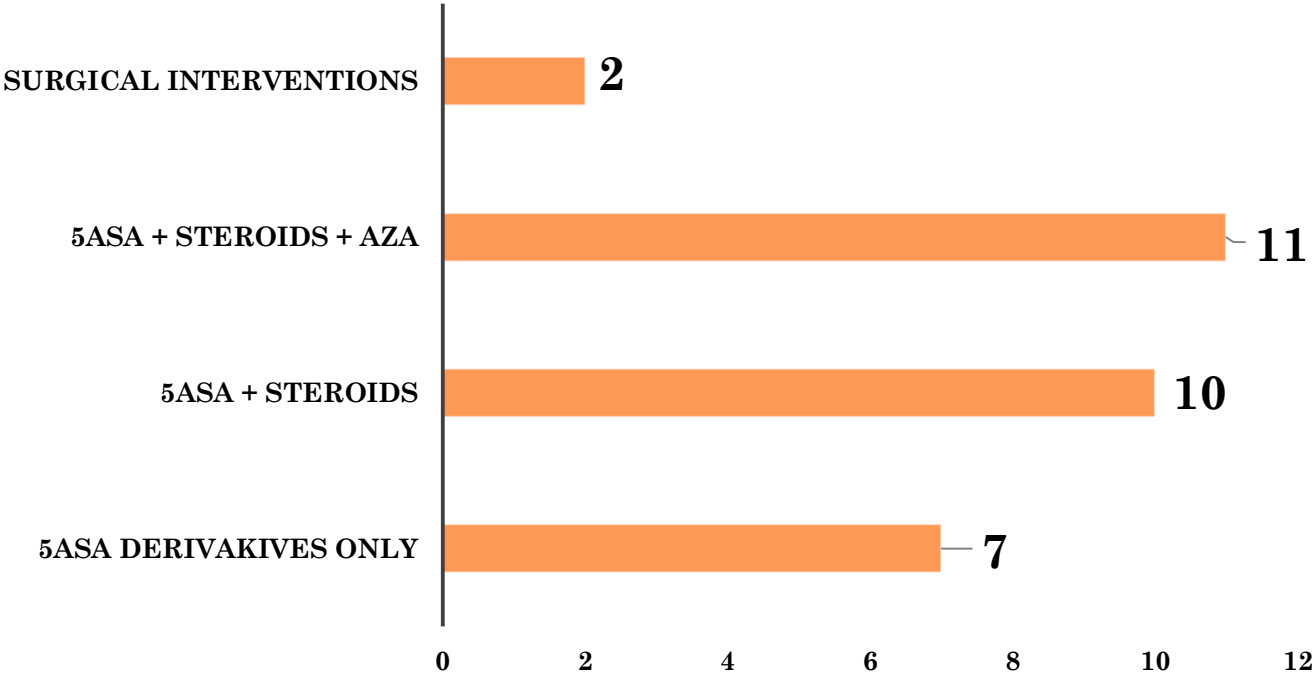


EXTENT OF DISEASE AT PRESENTATION

- PROCTITIS
- LEFT SIDED DISEASE
- PANCOLITIS
- EXTENT UNKNOWN AS PROCEDURE ABANDONED

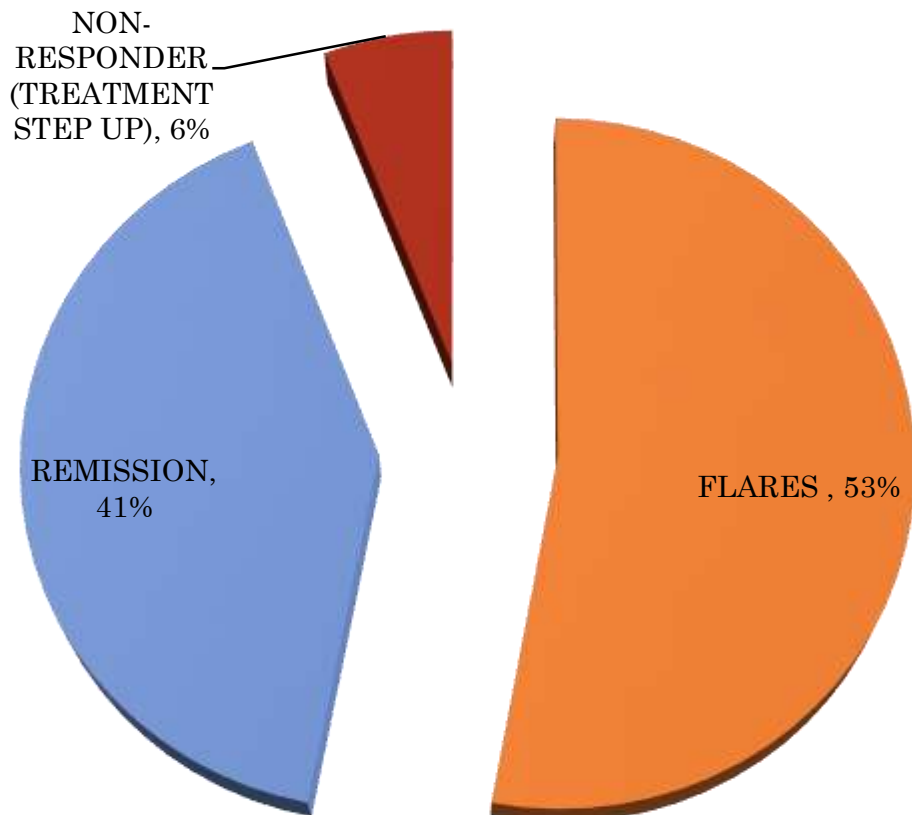


TREATMENT OFFERED



FOLLOW UP IN IBD CLINIC:

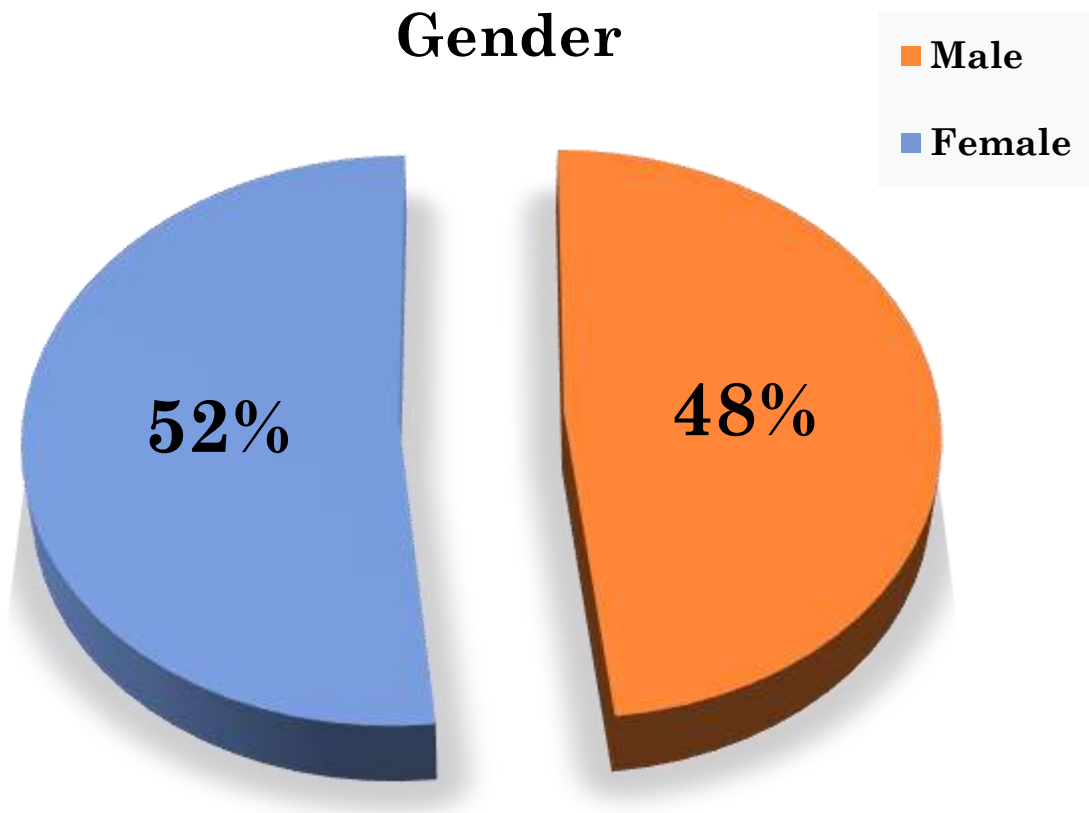
Total Patients register in IBD Clinic since 2015	170
Follow up Patients in IBD clinic year 2020	61



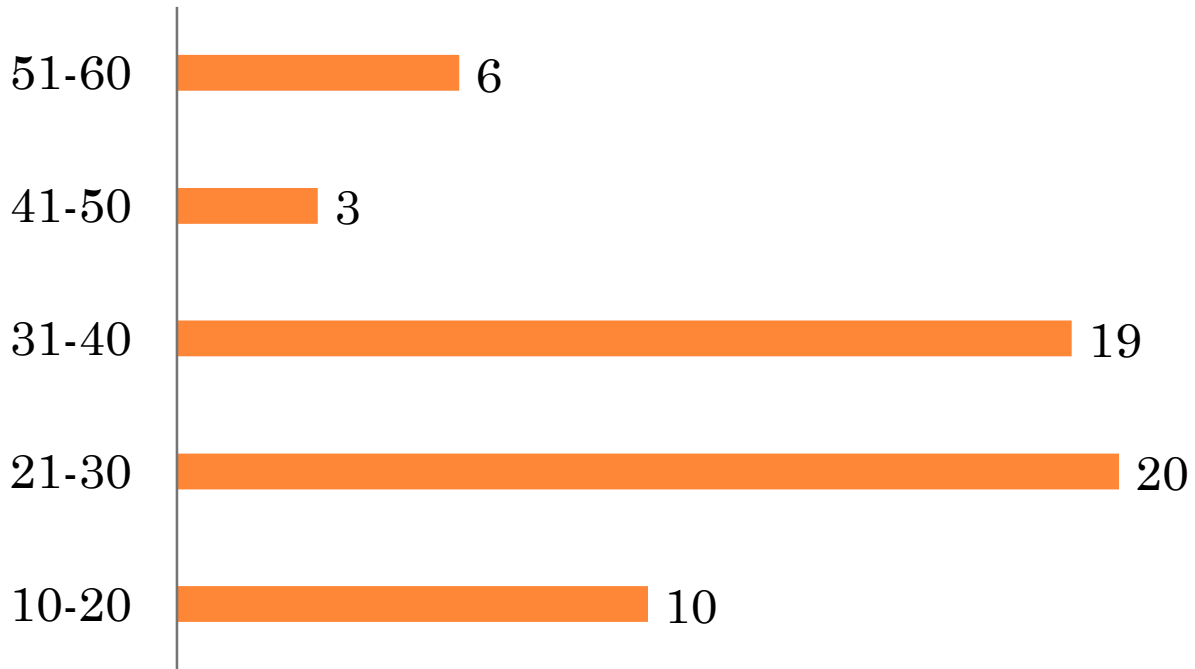
2022

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

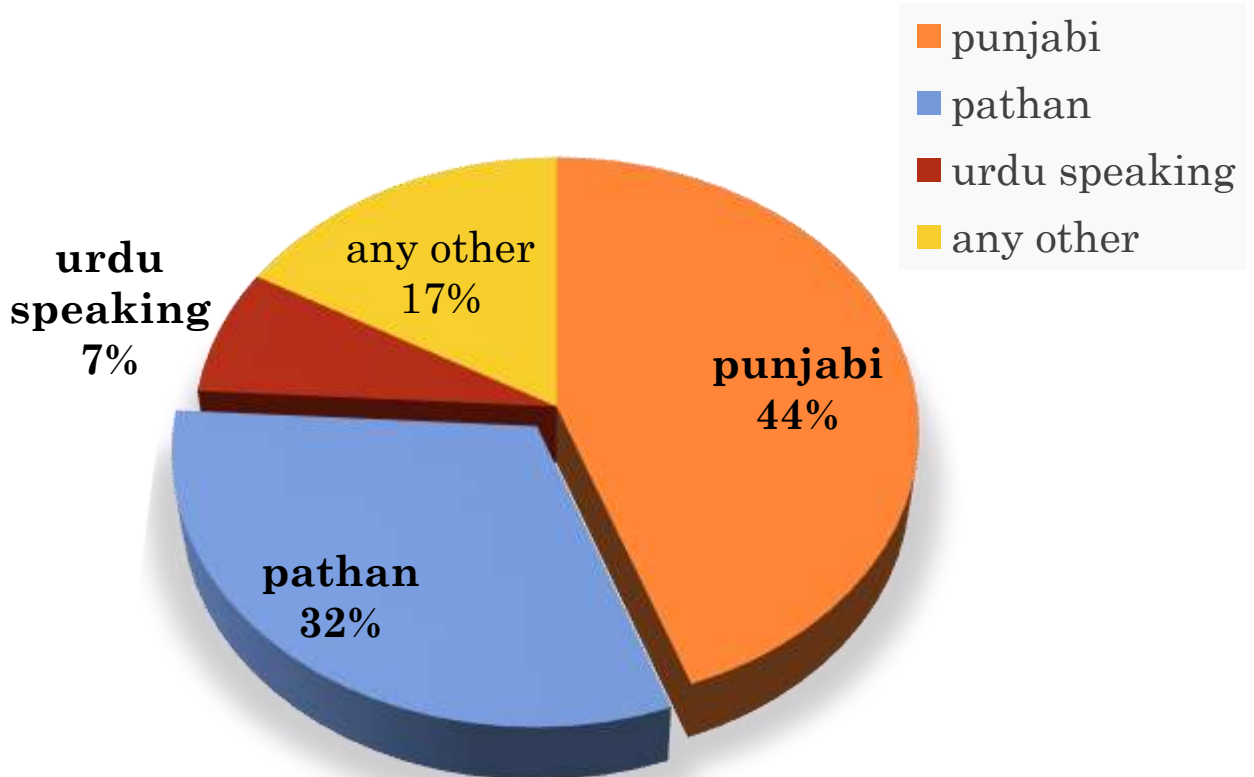
Total No of Patients	58
Male	28
Female	30



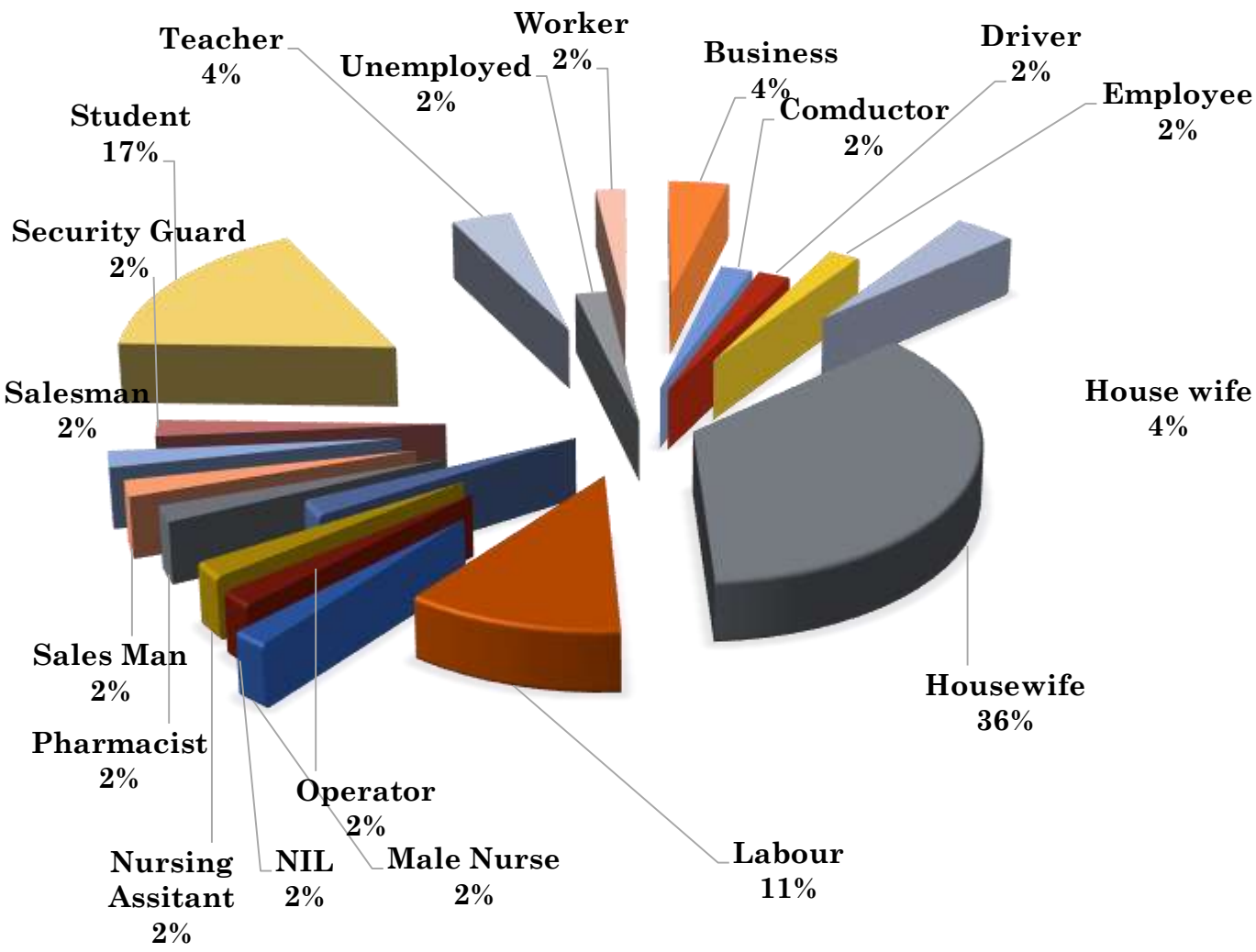
Age Wise Distribution



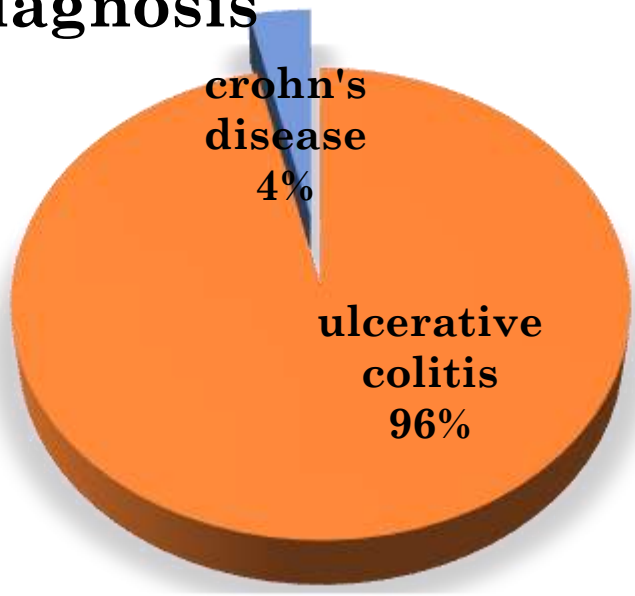
RACE OF PATIENT



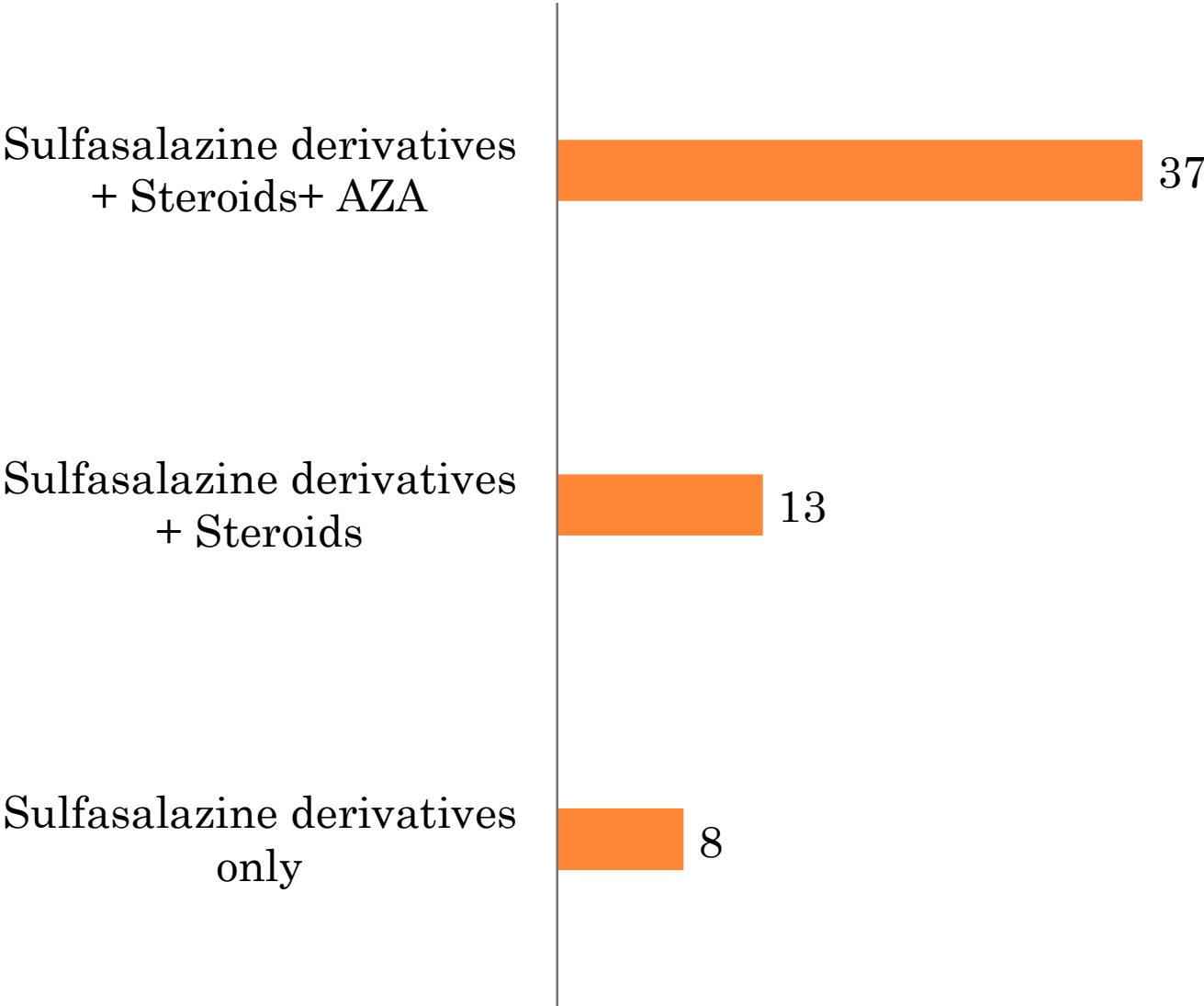
PATIENT'S PROFESSION



Patient's Diagnosis

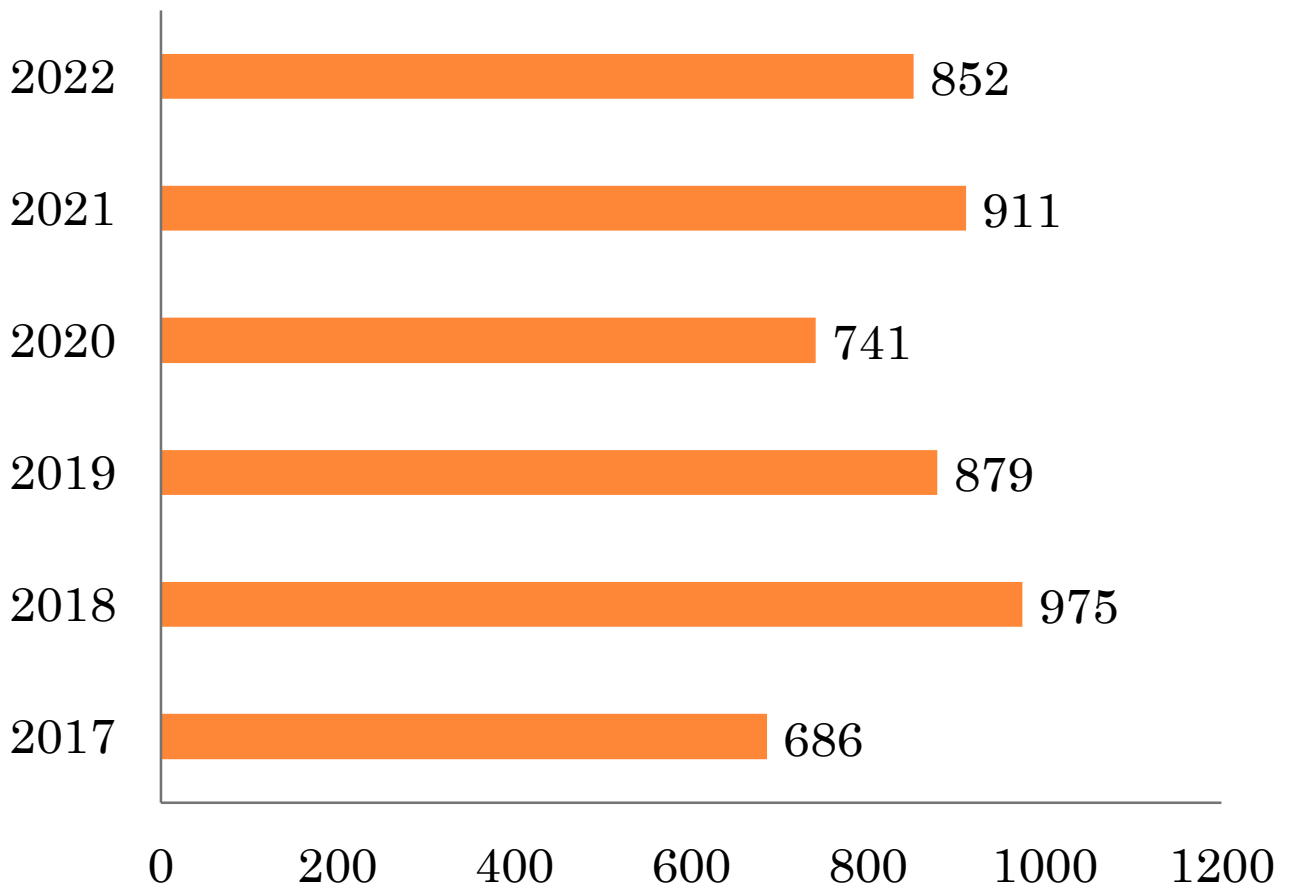


TREATMENT OFFERED



Indoor/Ward Audit

Centre for liver and Digestive Diseases has established its own 14 bedded Indoor ward since March 2017. With a total of 852 patients in 2022, our unit has admitted approx. 80 plus patients per month. The total number of inpatient days were 3588 whereas the bed occupancy rate was 70.21%. Maximum burden of Indoor patients, depicting more serious illness, ranges from 40 to 60 years of age group and males are predominantly involved. This is the age group providing main economic support to their families. Being most prevalent country in Hepatitis C, the picture is aptly depicted through our data with DCLD being the commonest diagnosis followed by obstructive jaundice and acute pancreatitis.

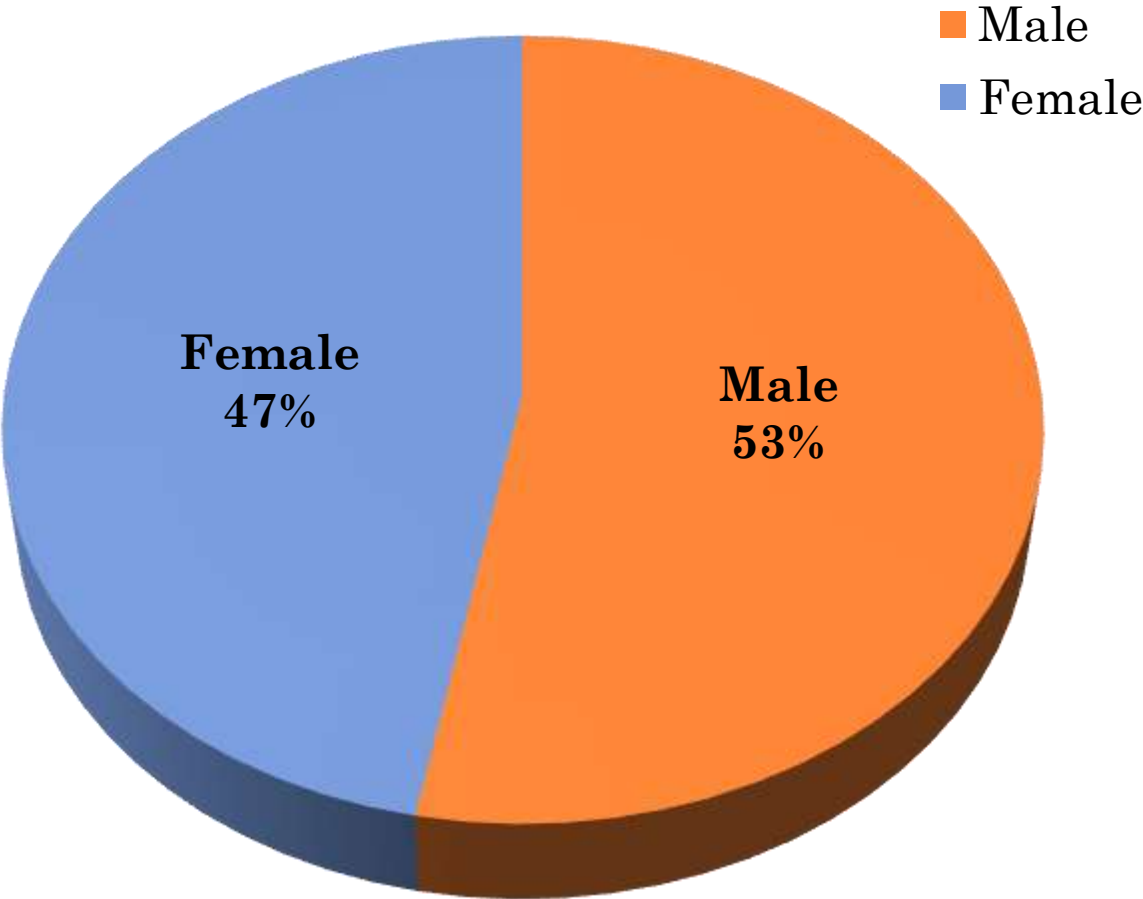


2020

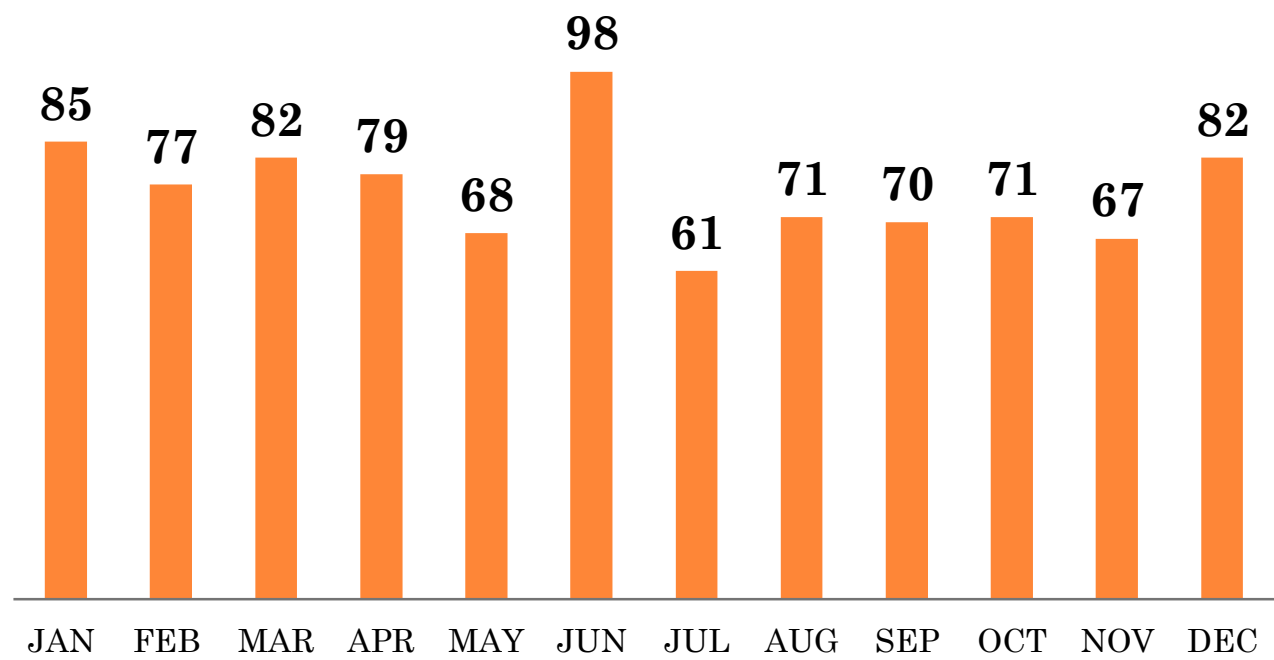
2021

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

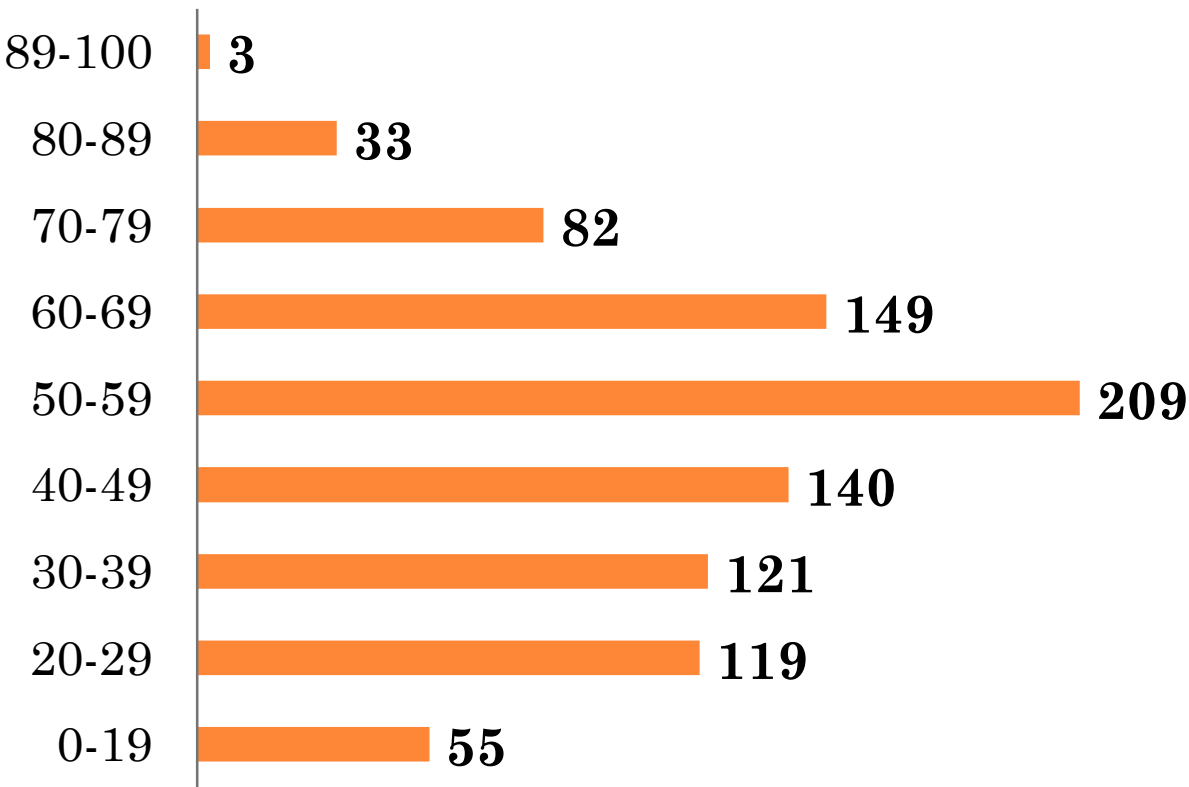
Total No of Patients	911
Male	483
Female	428



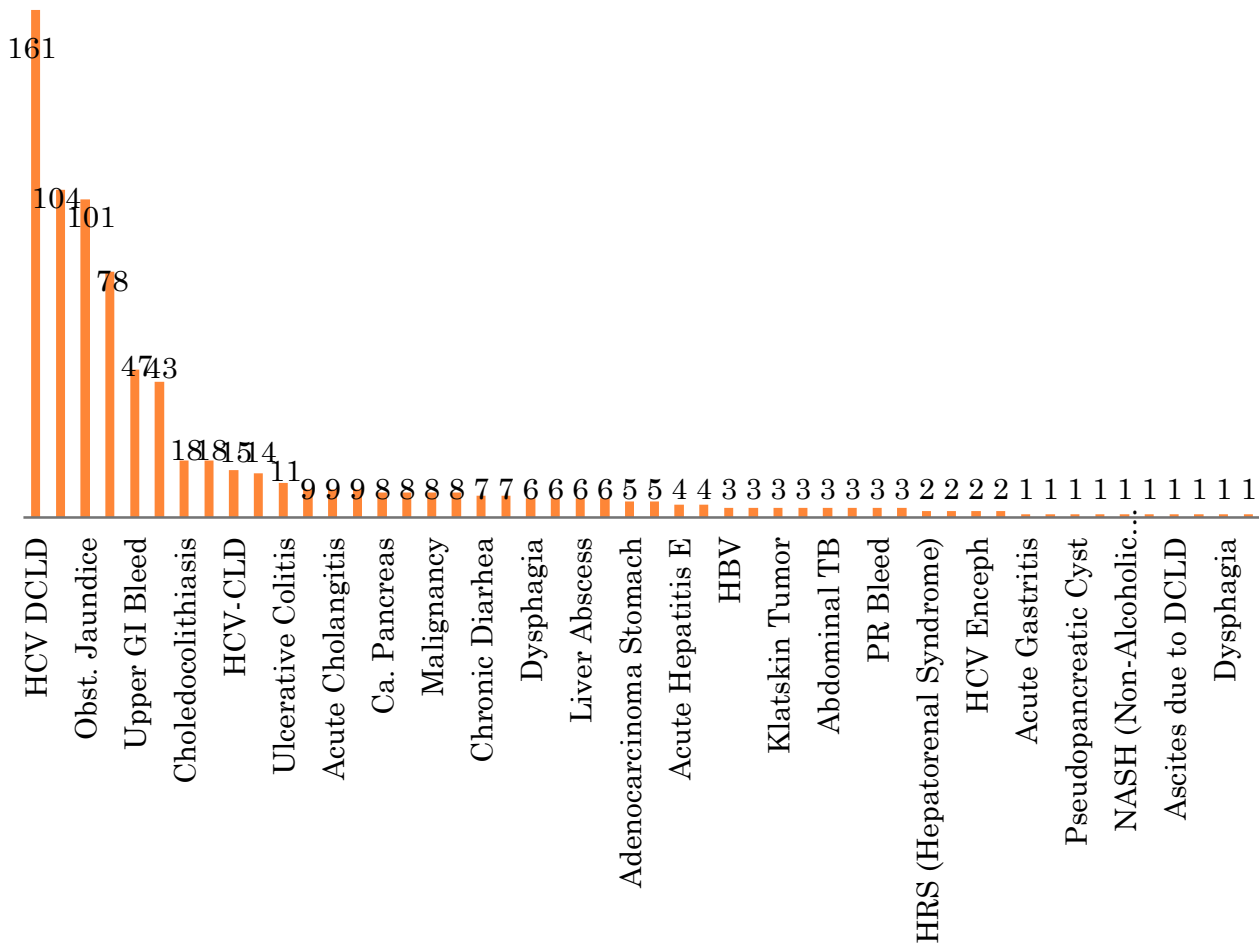
MONTHLY DISTRIBUTION



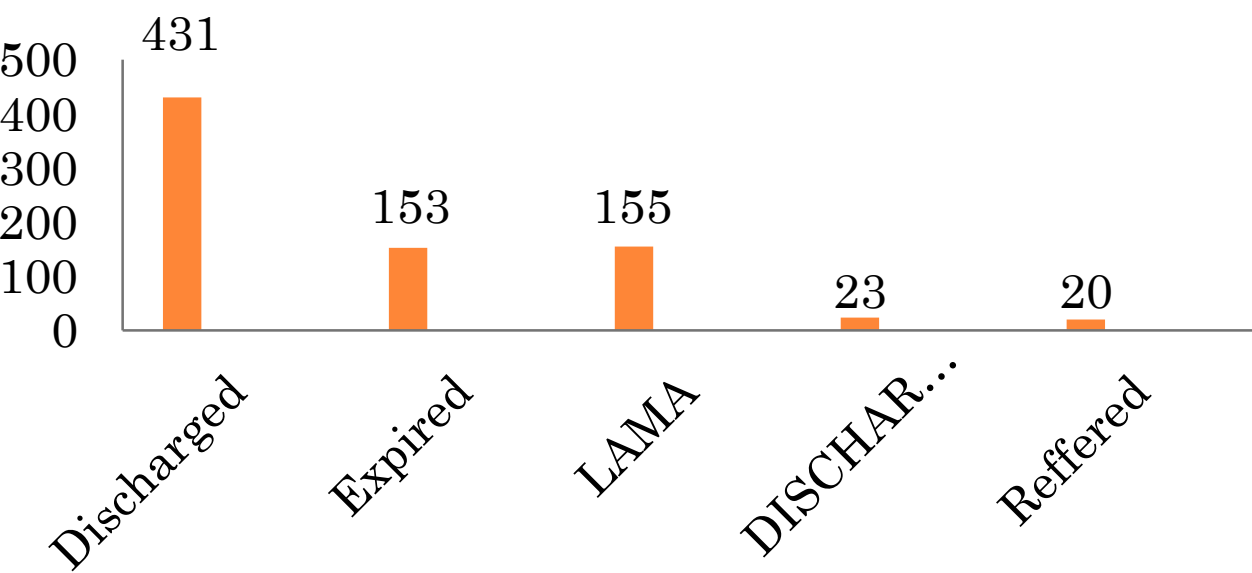
Age-wise Distribution



DIAGNOSIS



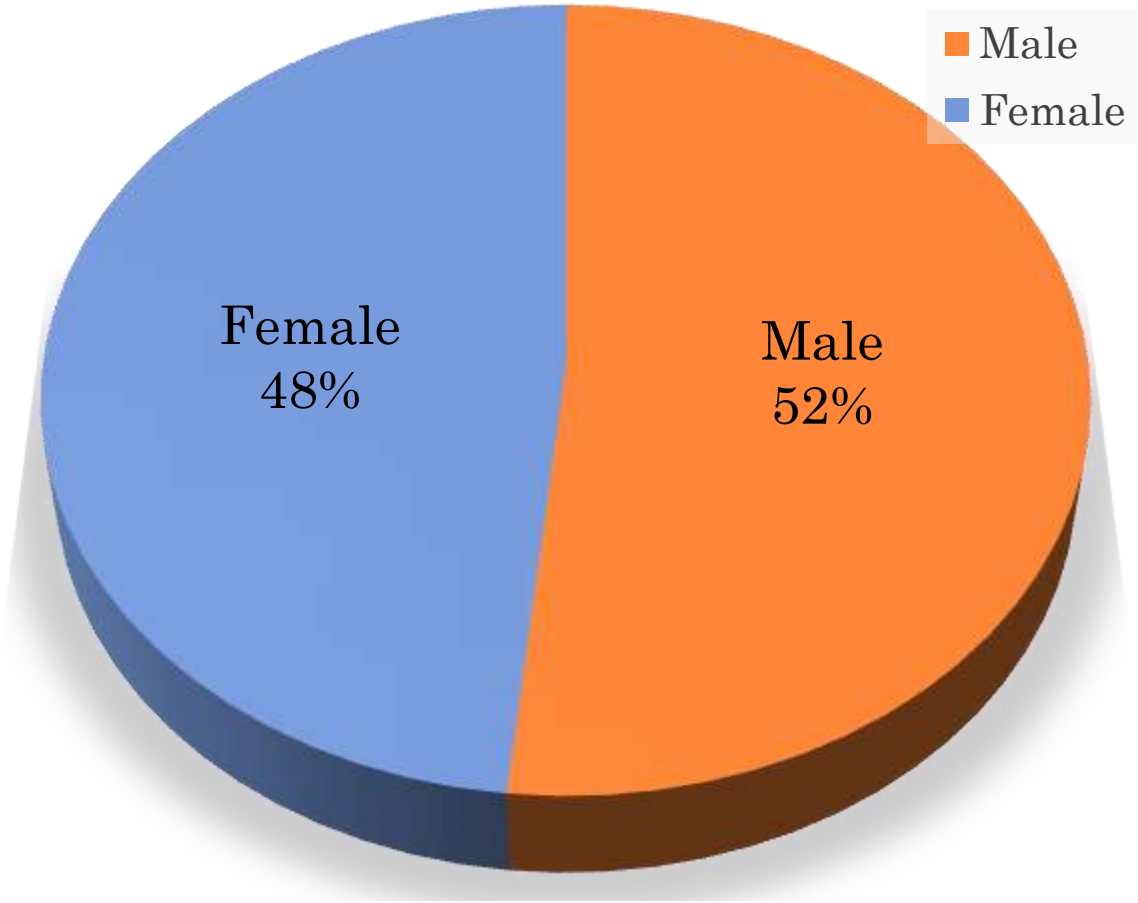
OUTCOME



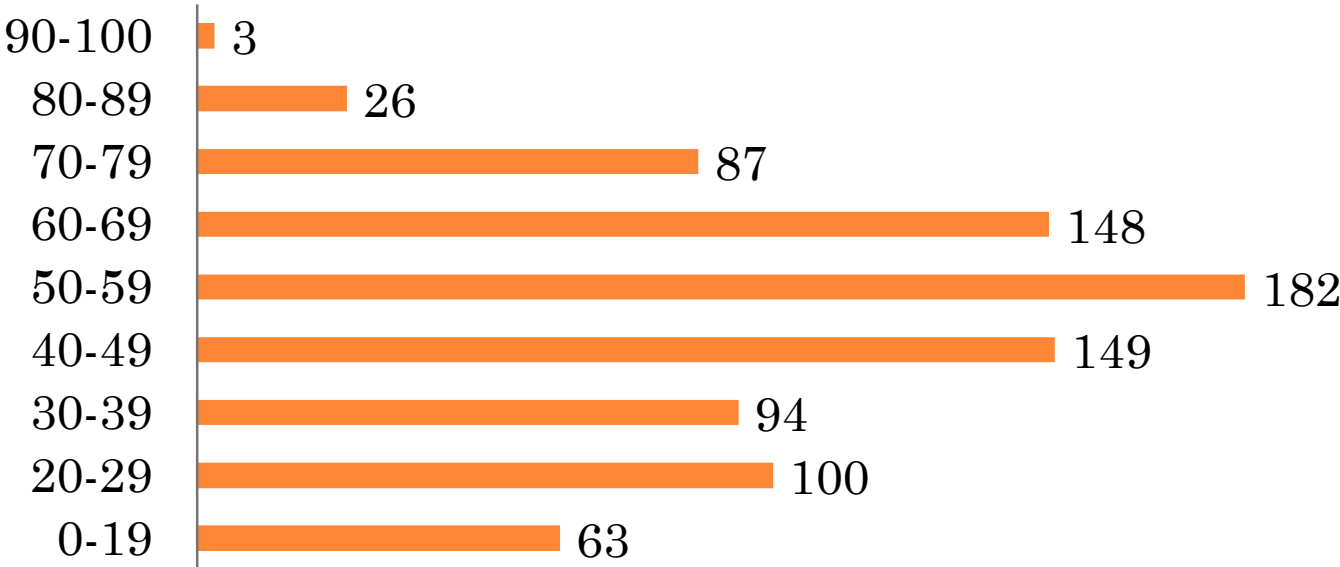
2022

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION.

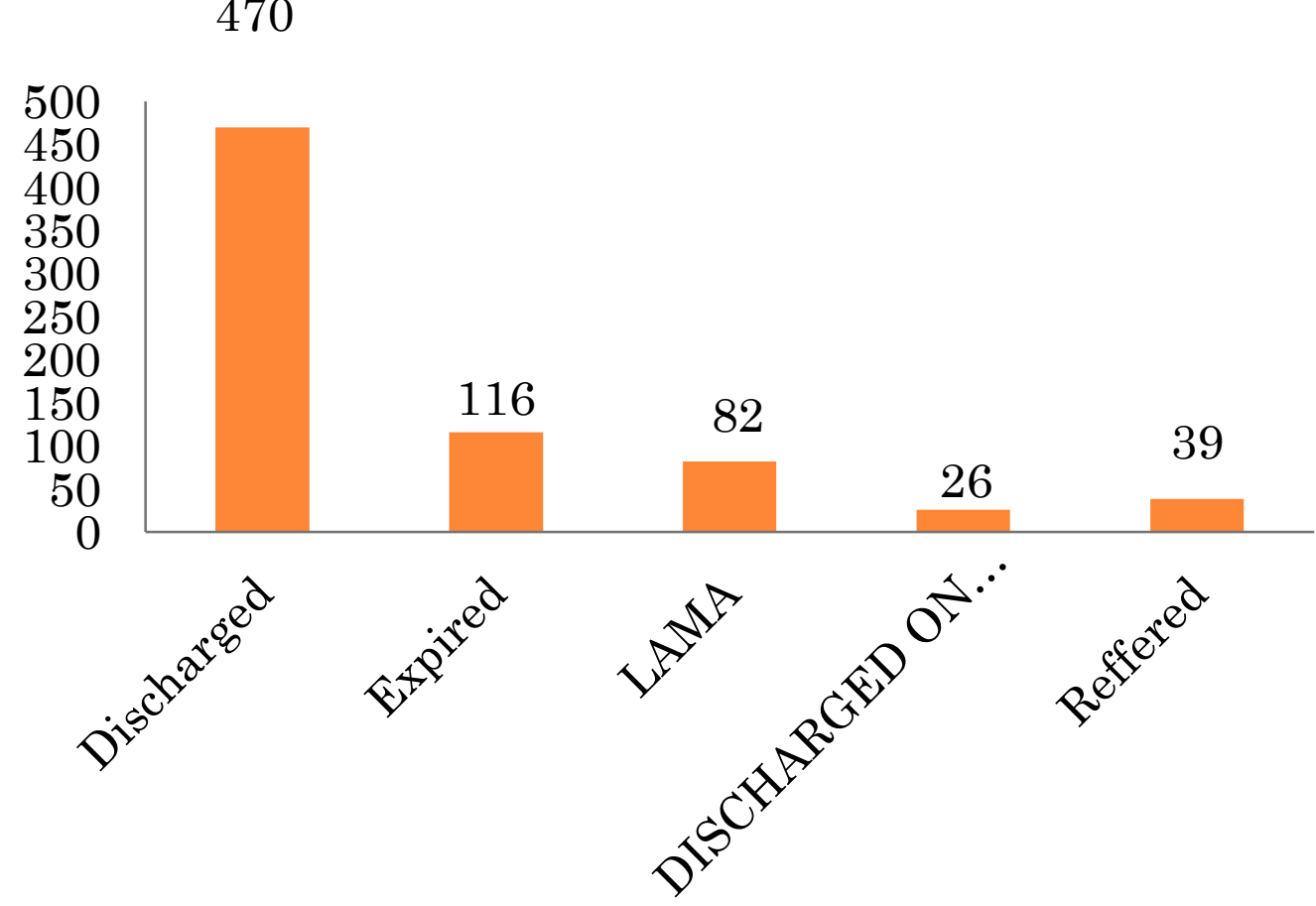
Total No of Patients	852
Male	440
Female	412



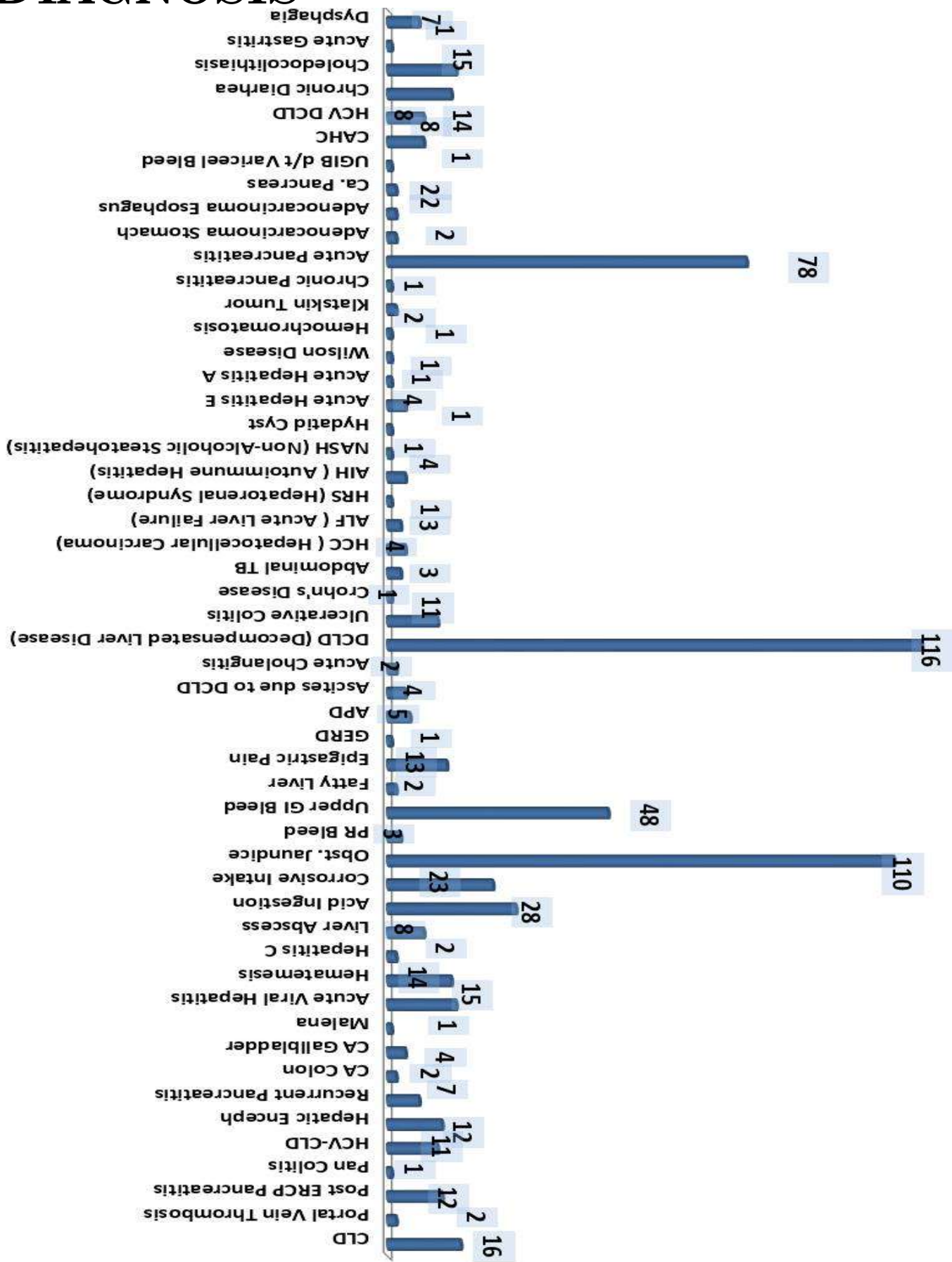
AGE WISE DISTRIBUTION



OUTCOME



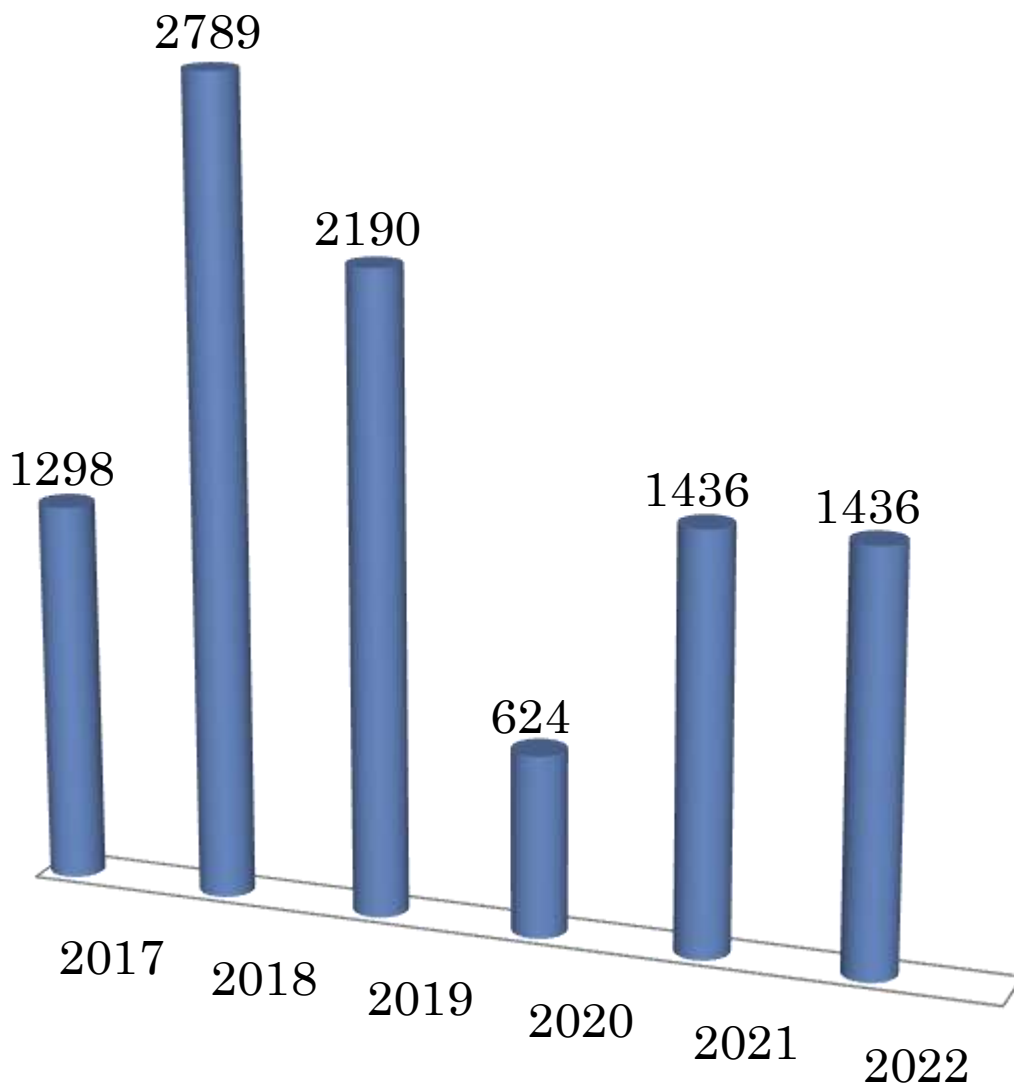
DIAGNOSIS



Emergency Audit

Gastroenterology department provides round the clock emergency services to the GI patients , seven days a week. In the COVID year there was some decline in the ER cases, which reverted back in year 2021-22.

Upper GI bleed is the commonest emergency dealt by Gastroenterology team on floor, followed by encephalopathy and pain abdomen. ER mortality is about 2.2%.

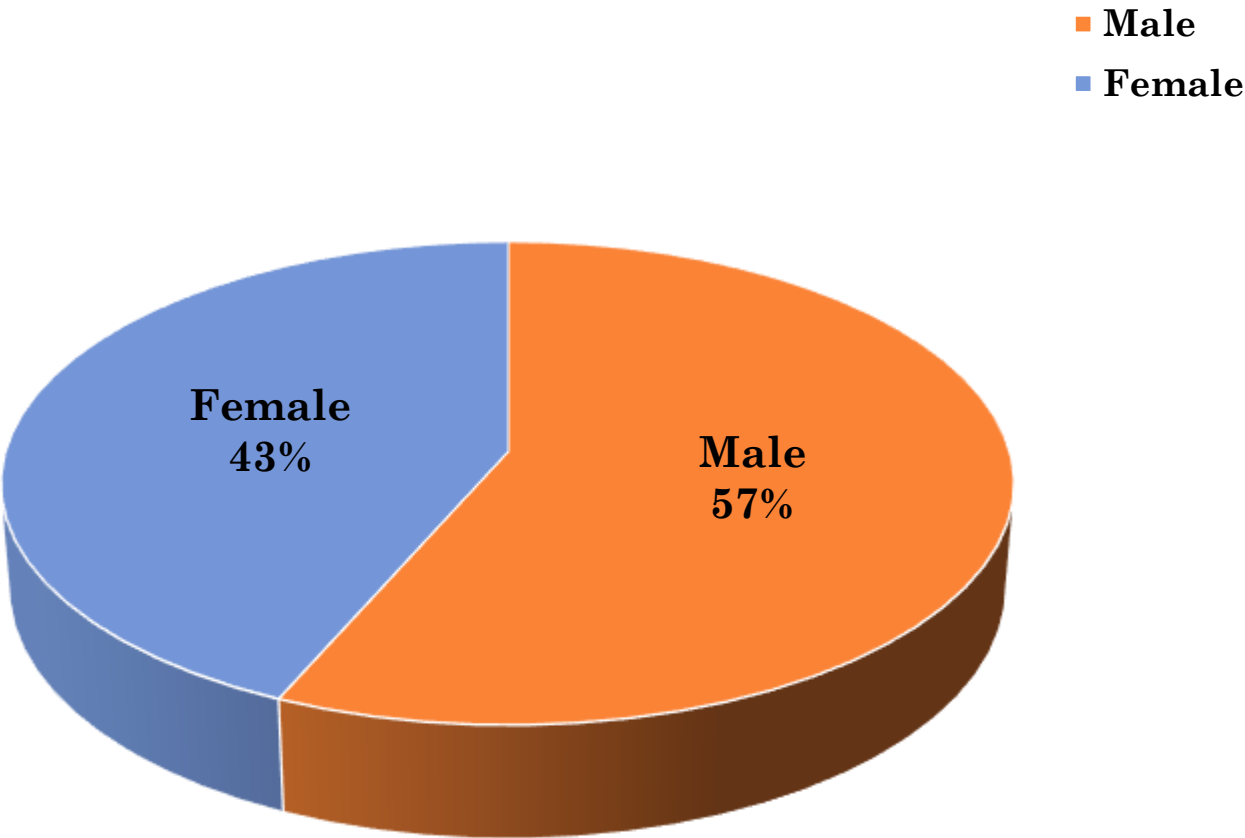


2020

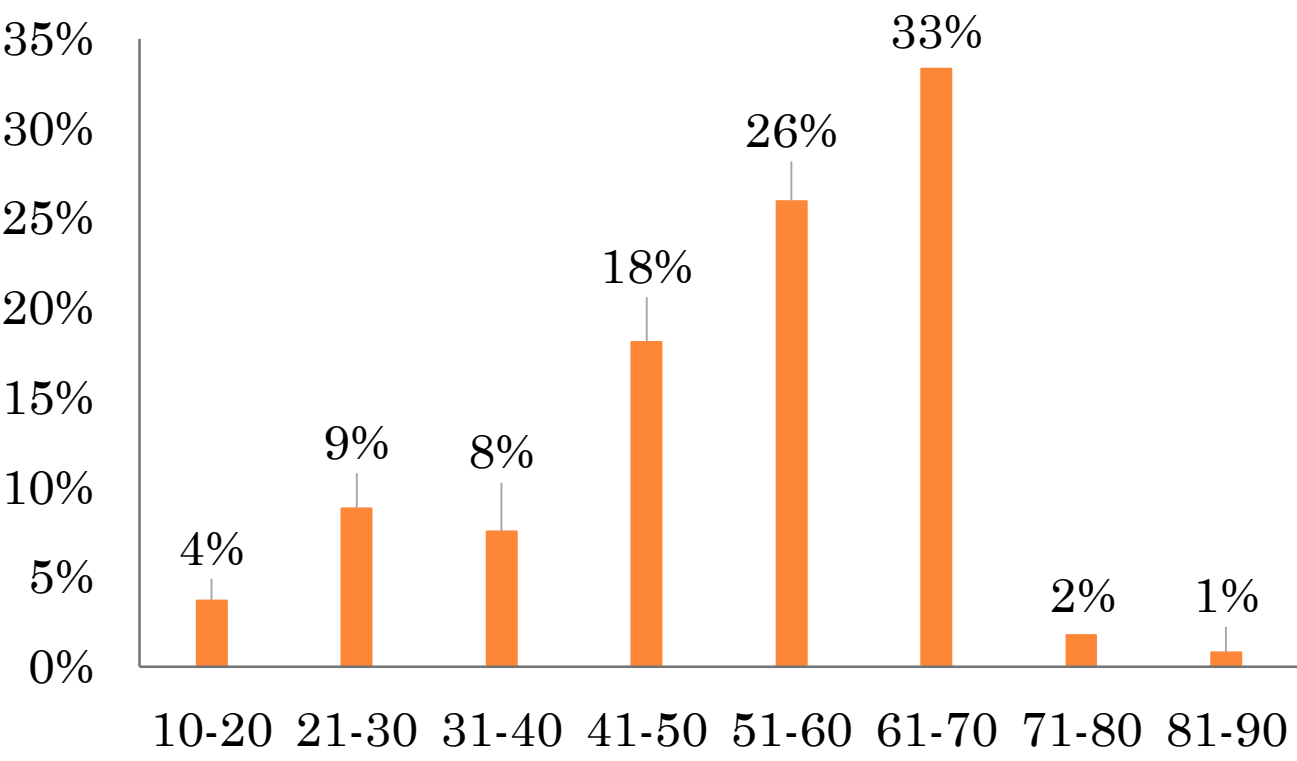
TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

Total No of Patients	624
Male	353
Female	271

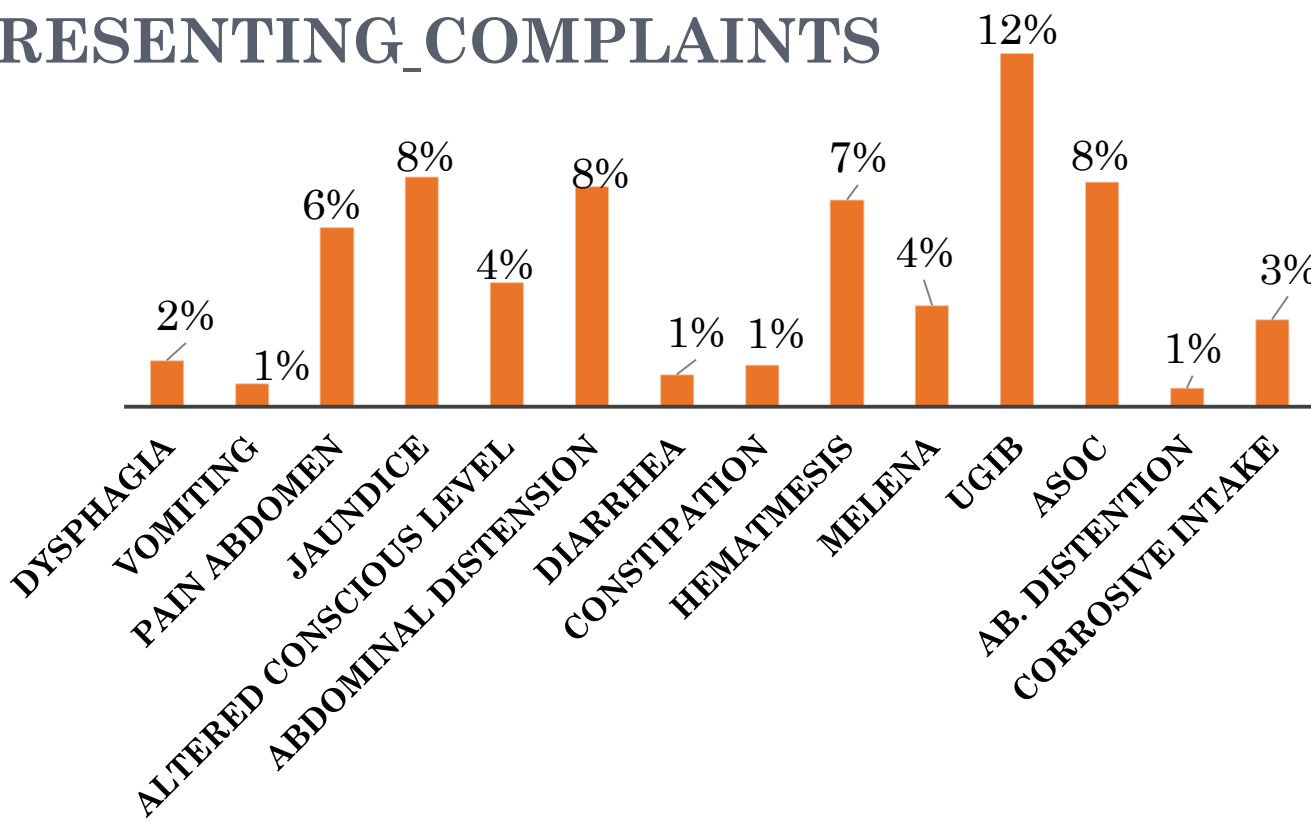
Gender



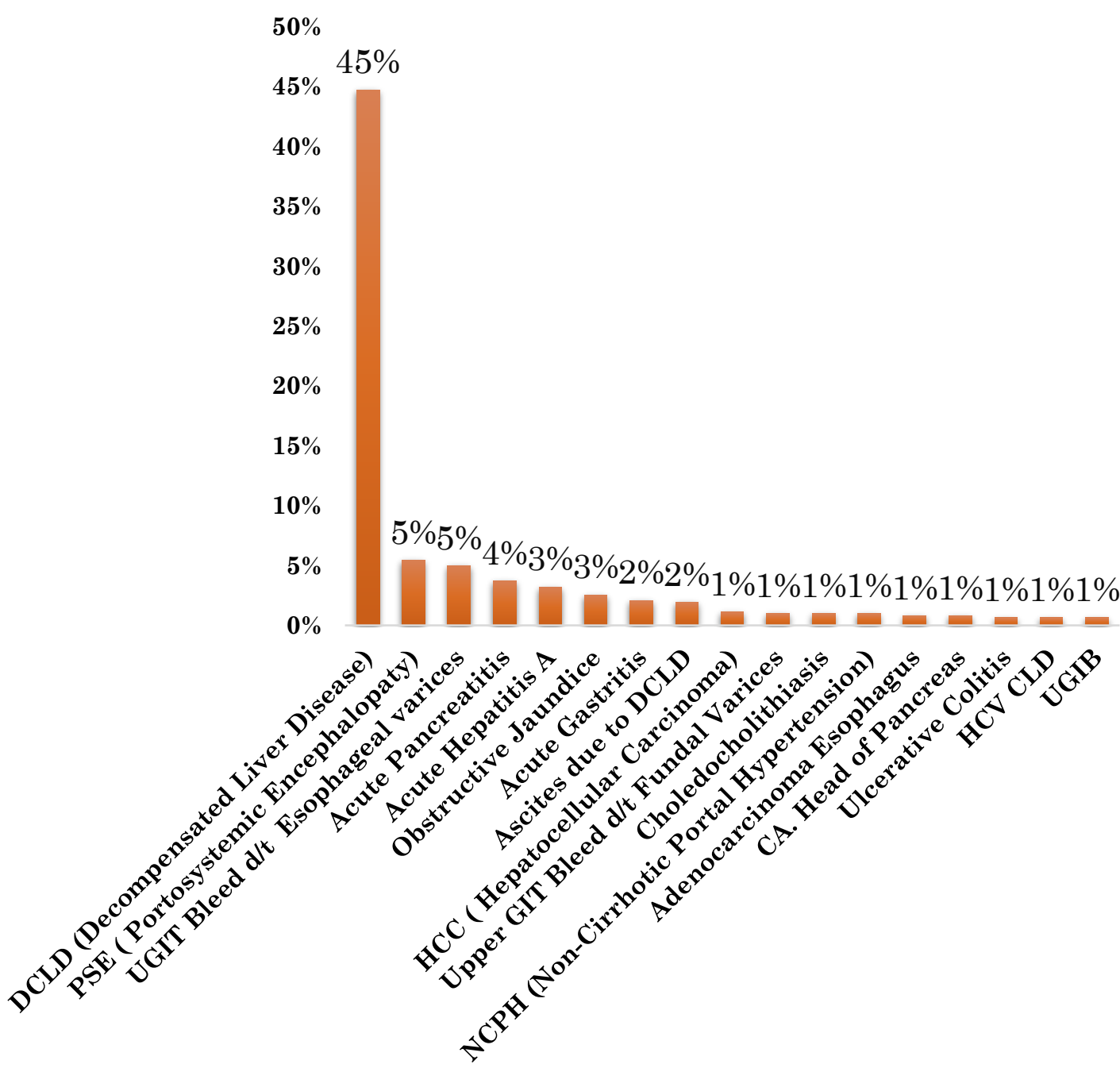
AGE WISE DISTRIBUTION



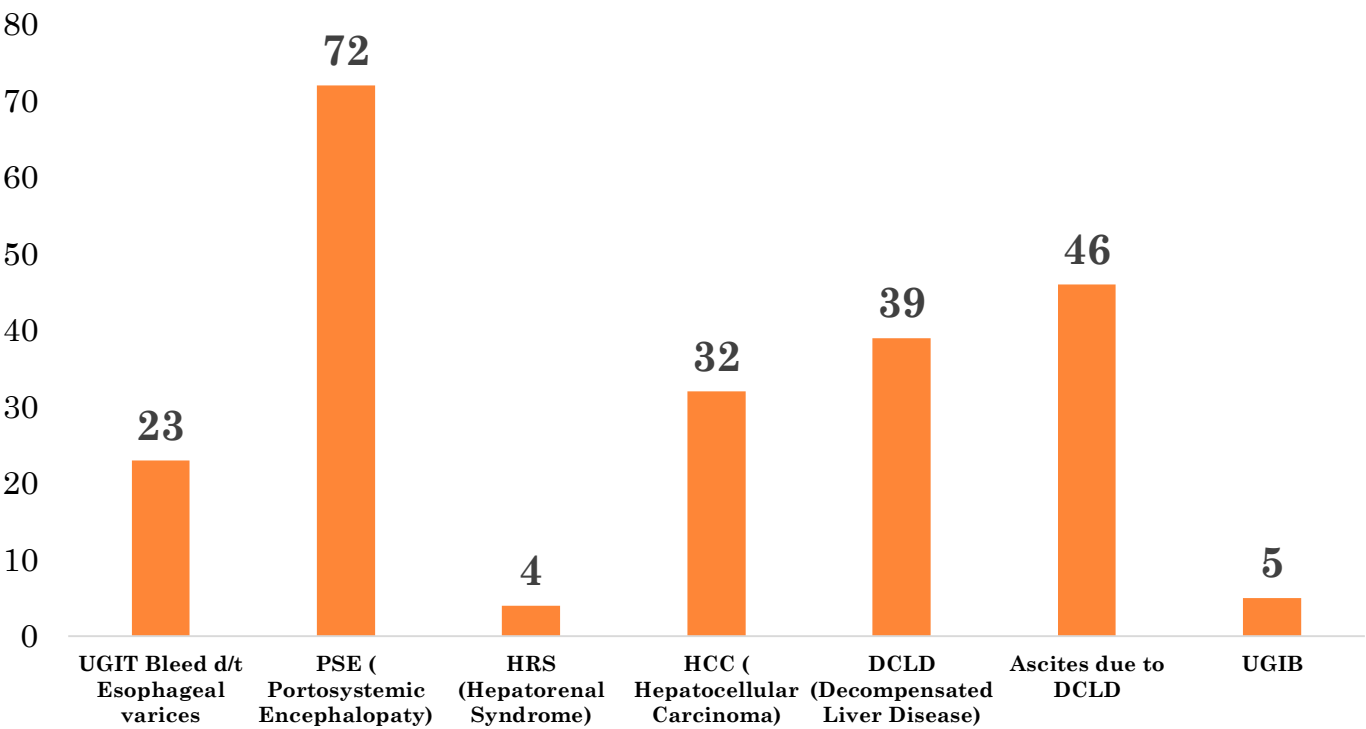
PRESENTING_COMPLAINTS



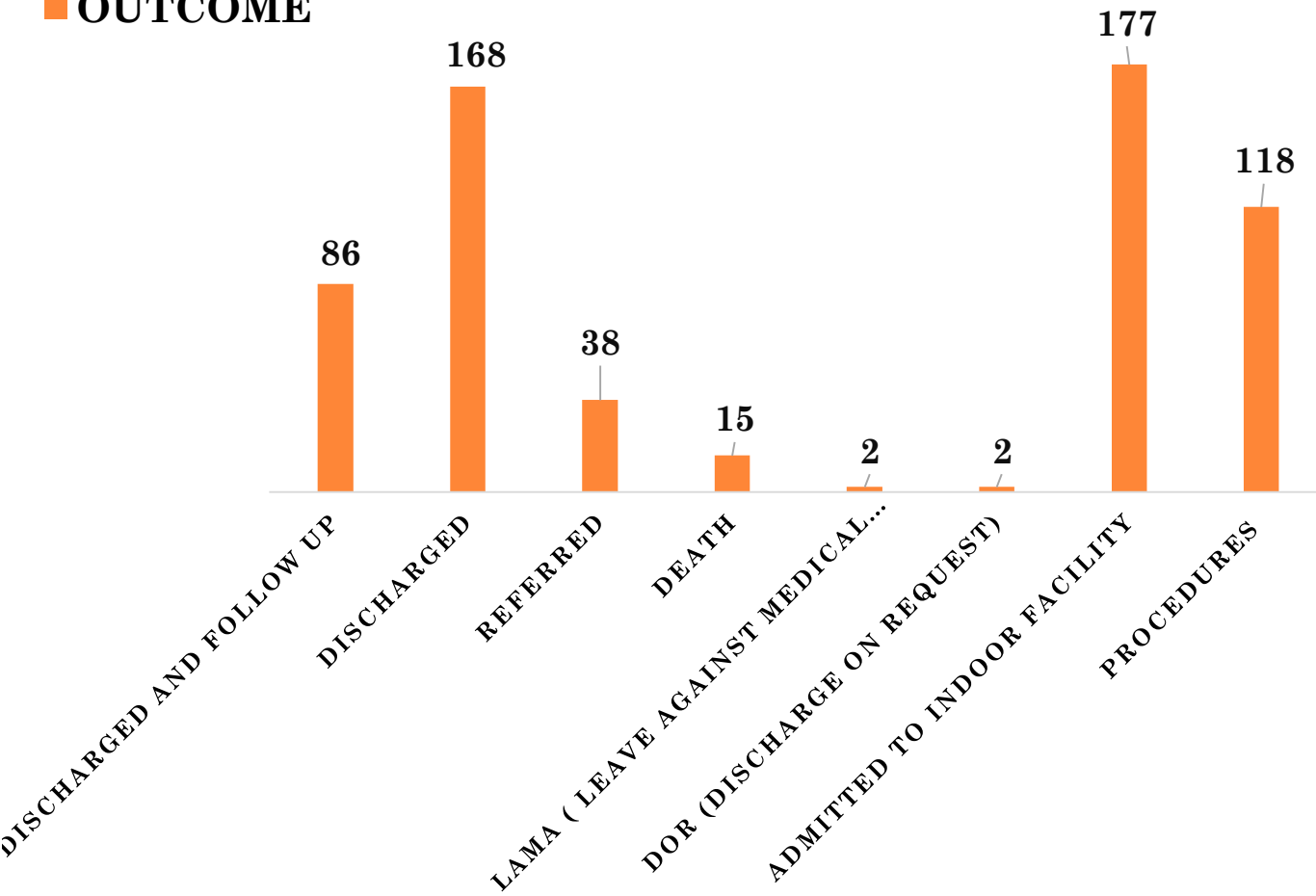
PRIMARY DAIGNOSIS



SECONDARY DIAGNOSIS



■ OUTCOME



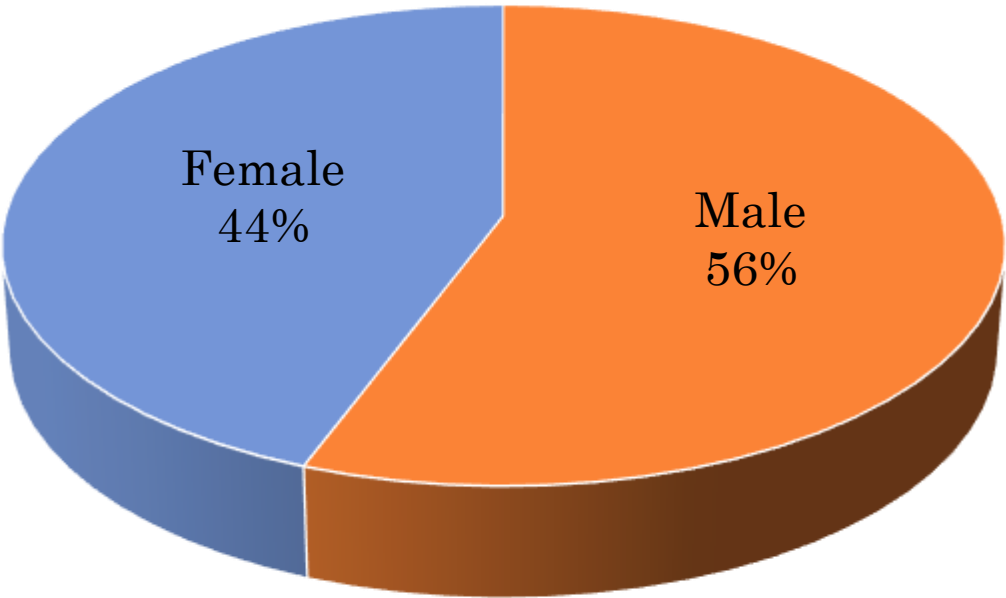
2021

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION

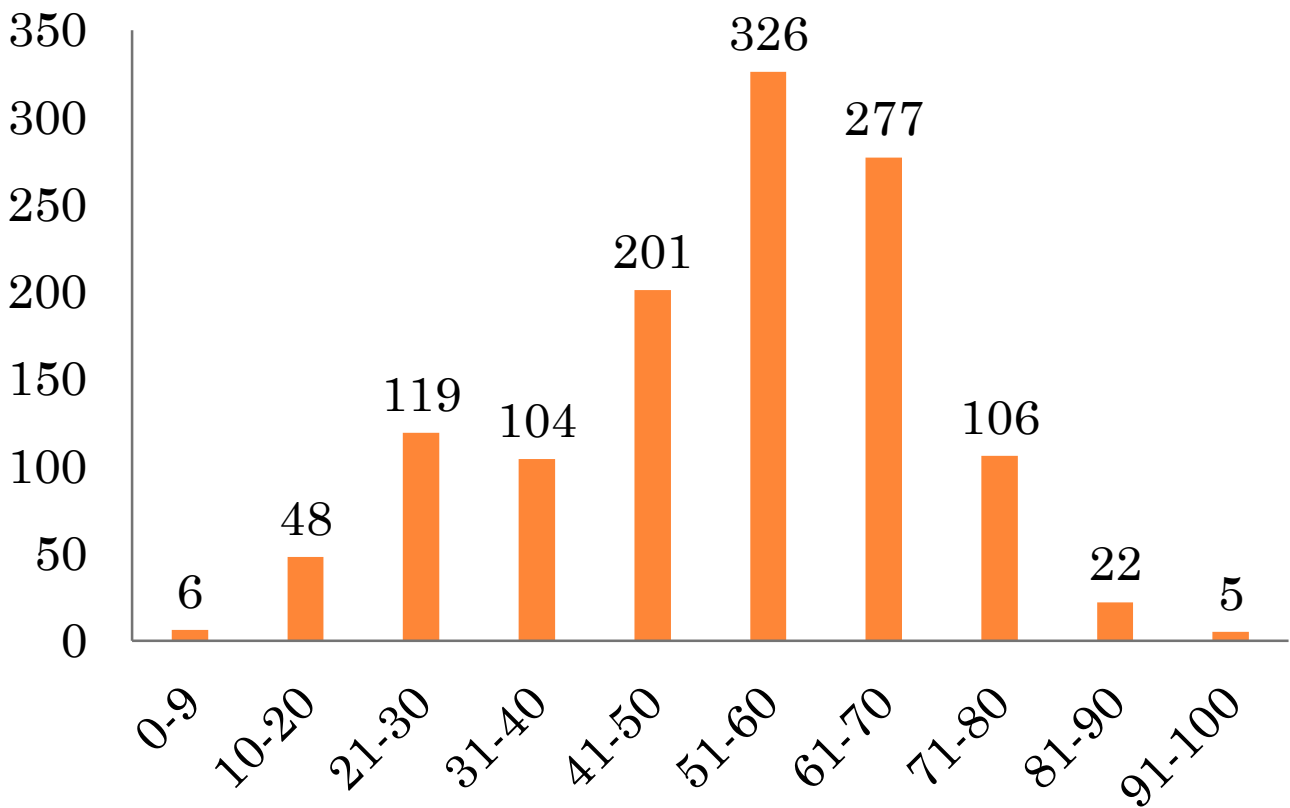
Total No of Patients	1214
Male	677
Female	537

Gender

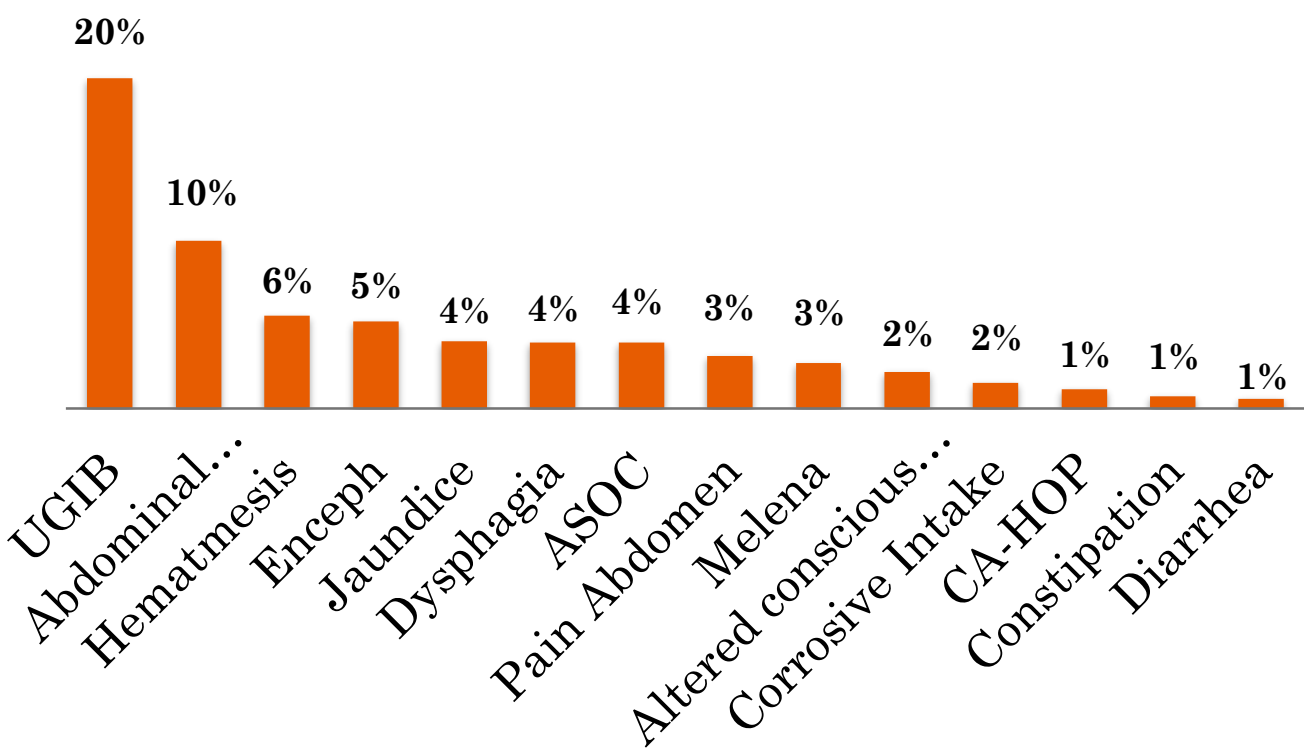
- Male
- Female



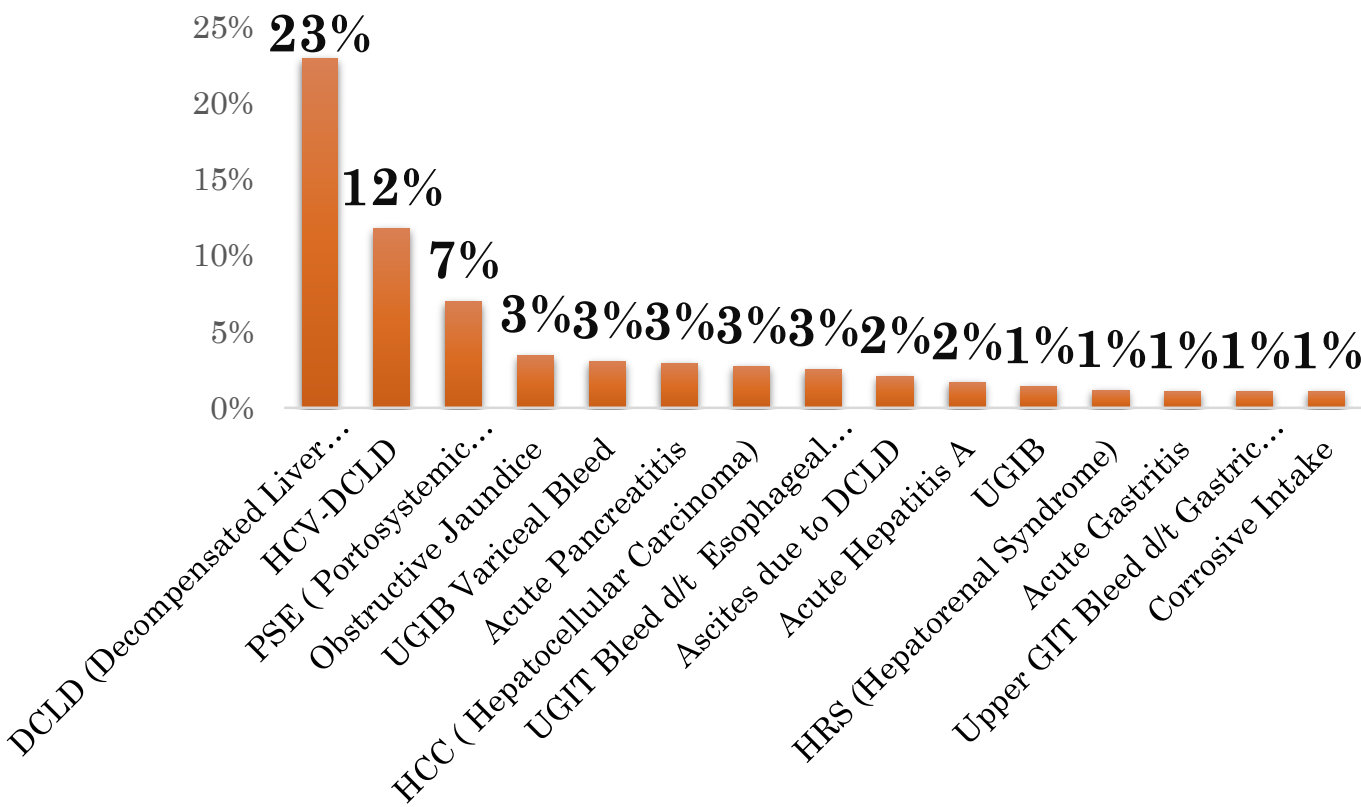
AGE WISE DISTRIBUTION



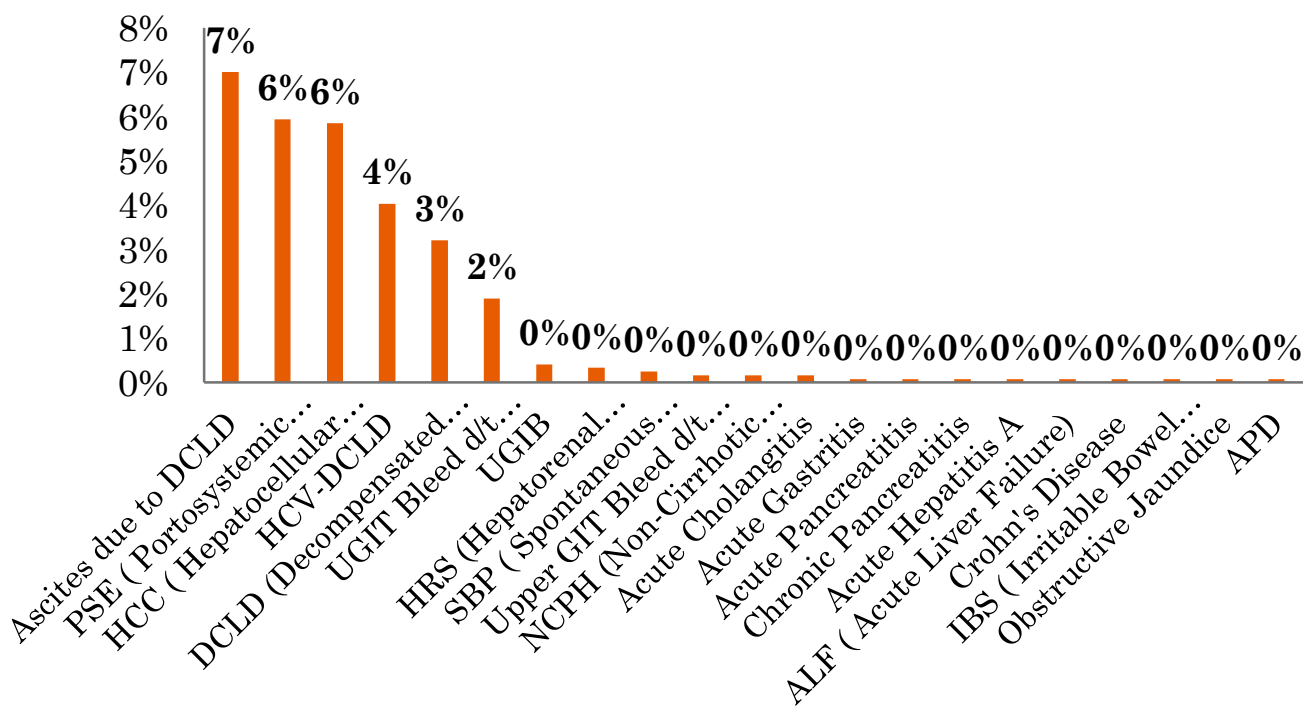
PRESENTING COMPLAINTS



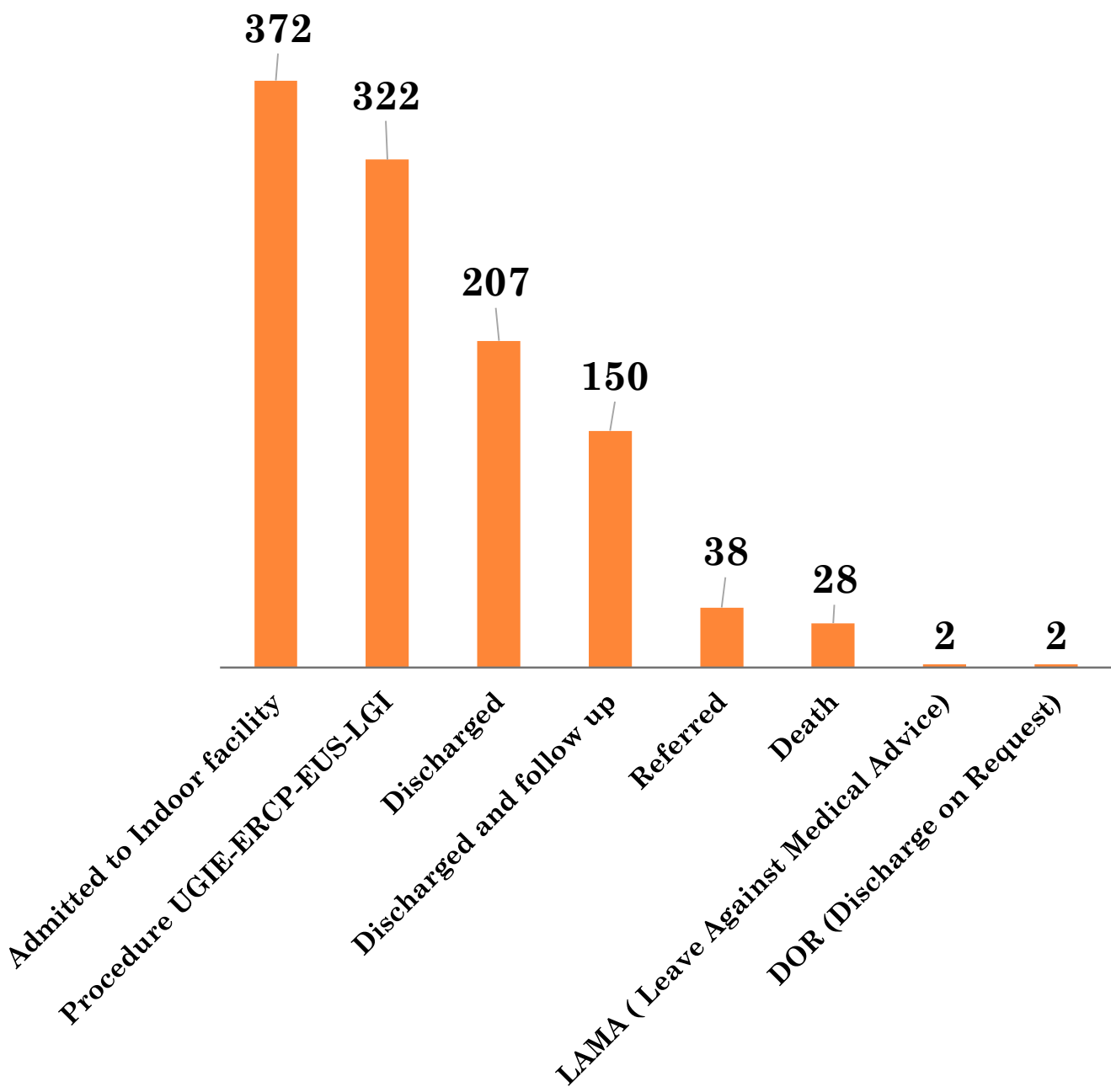
PRIMARY DAIGNOSIS



SECONDARY DIAGNOSIS



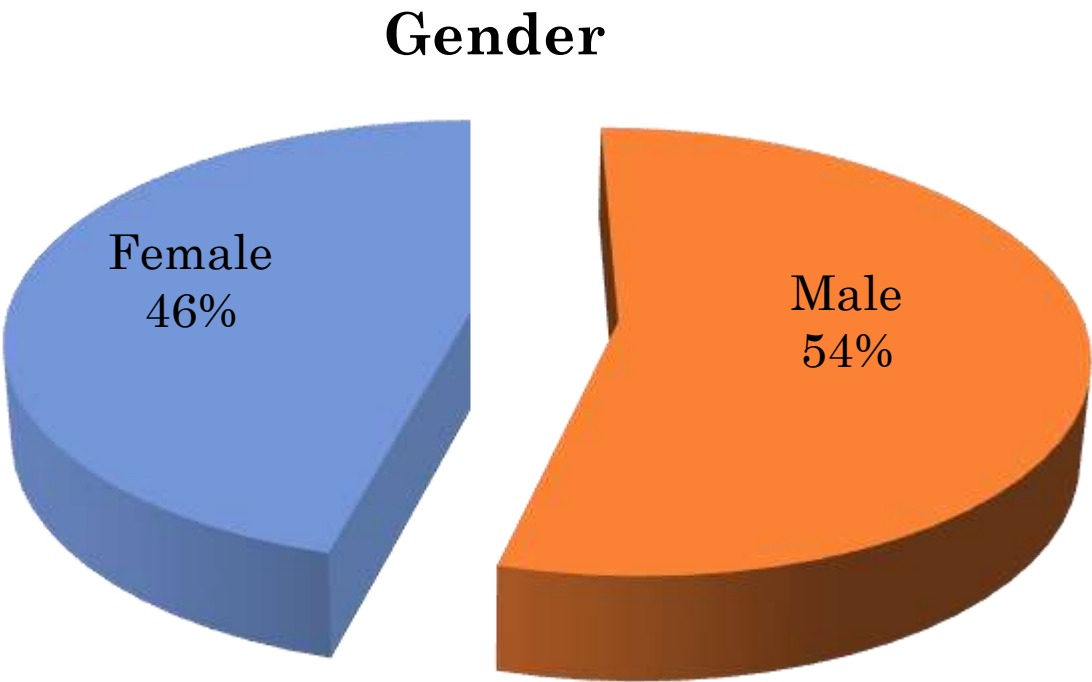
OUTCOME



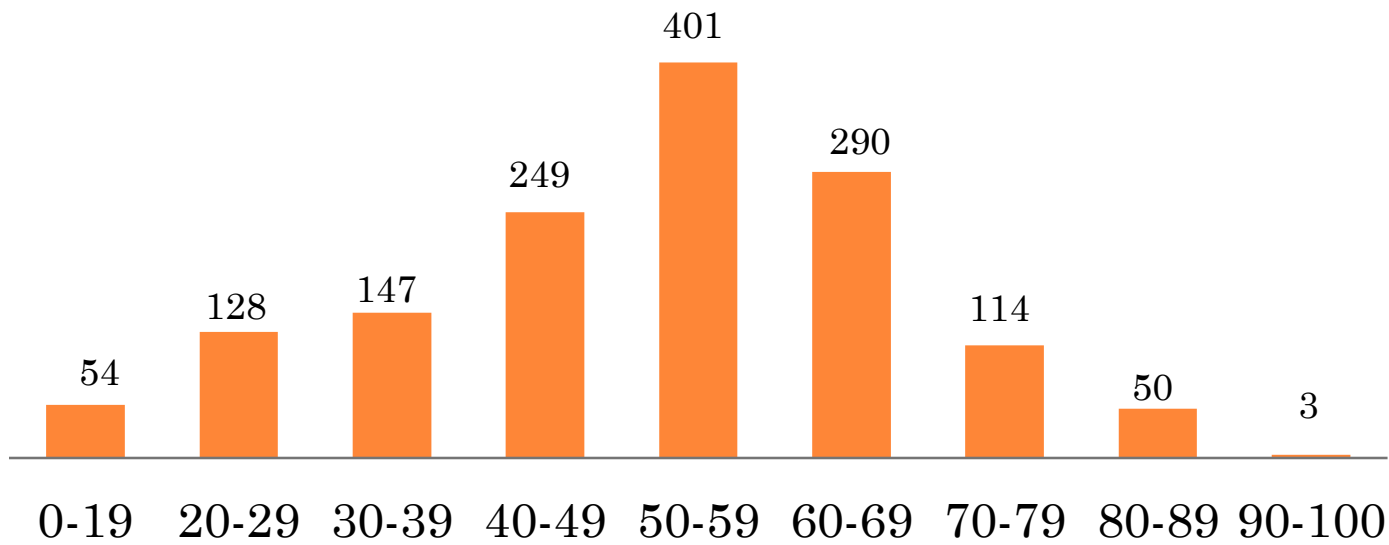
2022

TOTAL NUMBER OF PATIENTS WITH GENDER DISTRIBUTION.

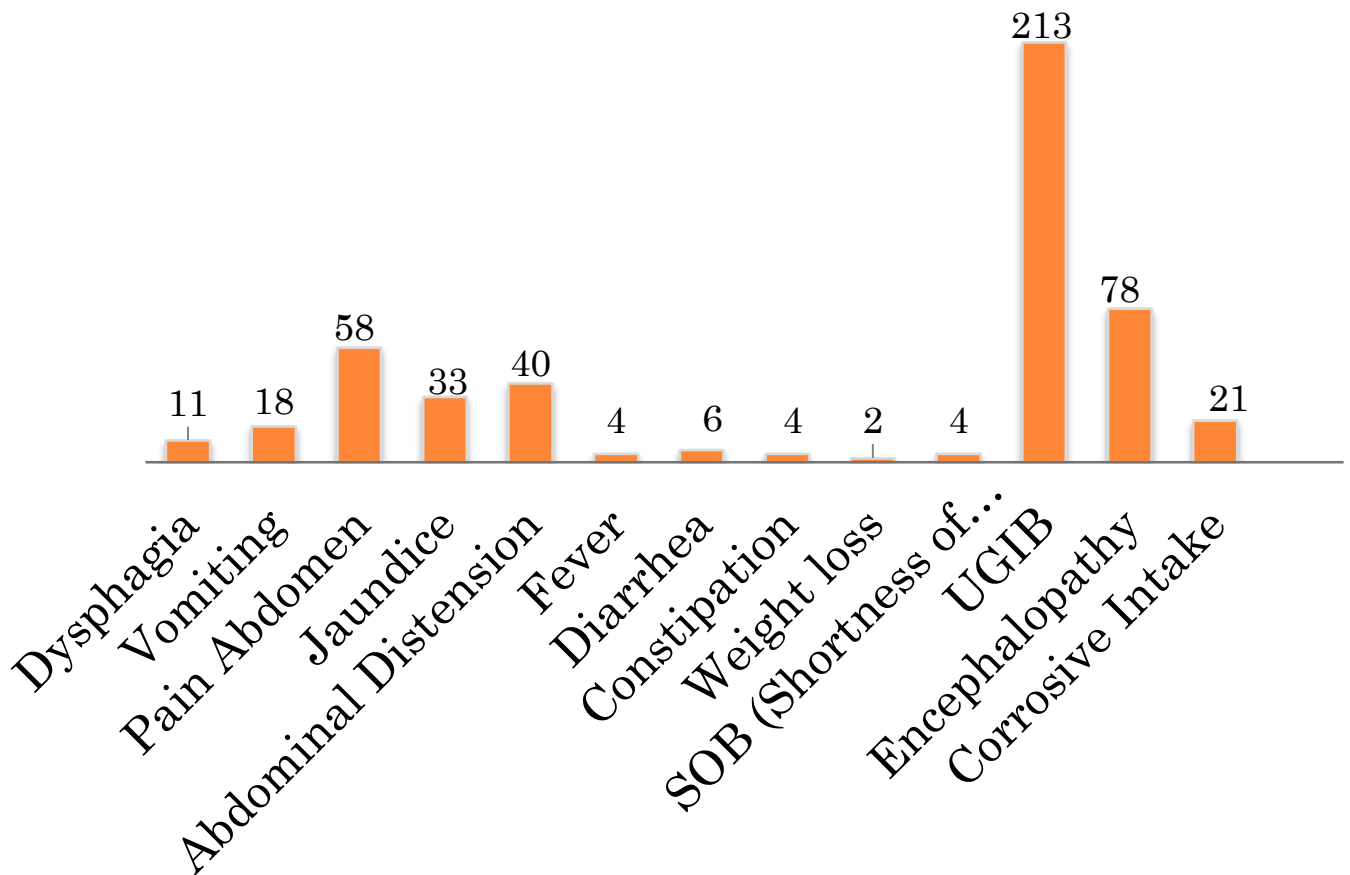
Total No of Patients	1436
Male	780
Female	656



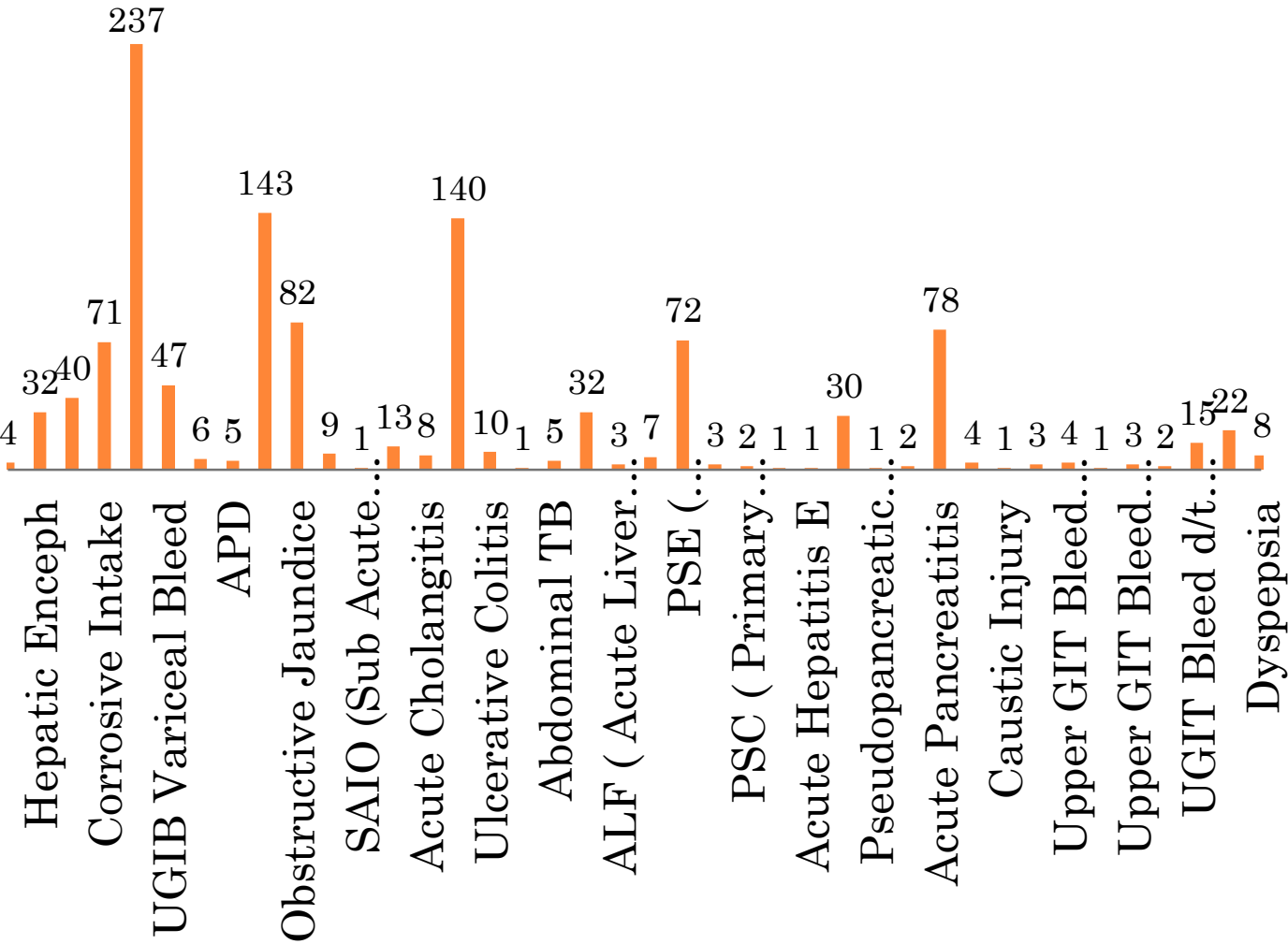
Age wise Distribution



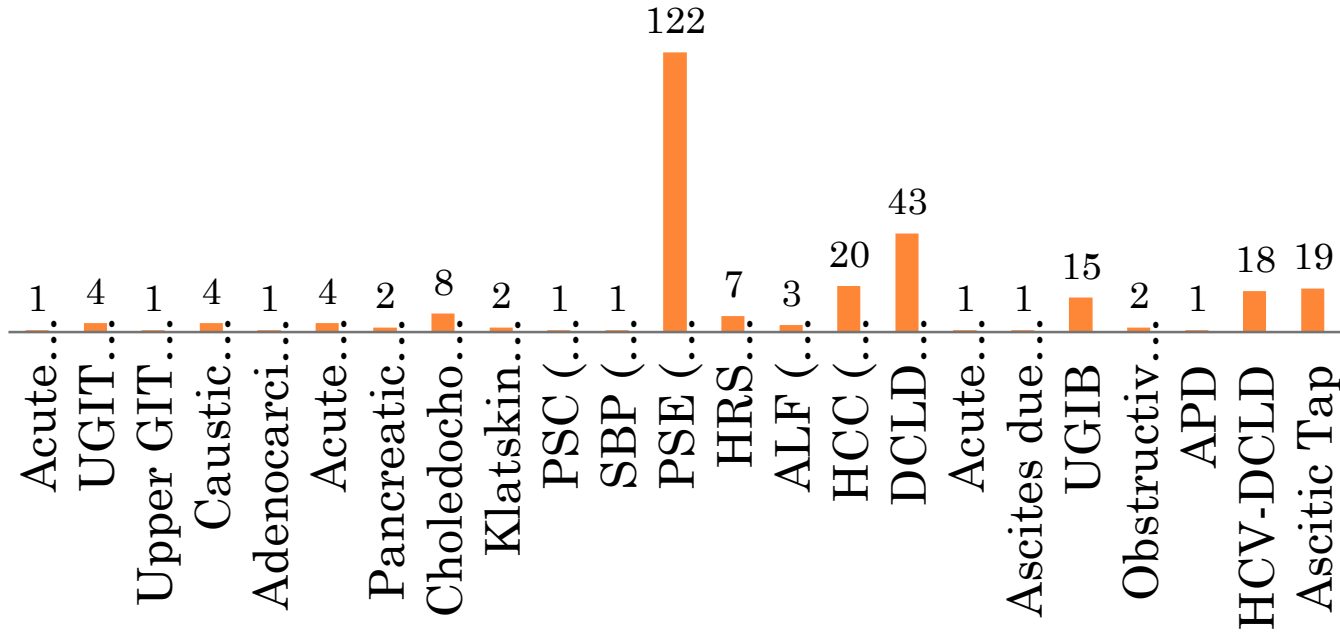
PRESENTING COMPLAINTS



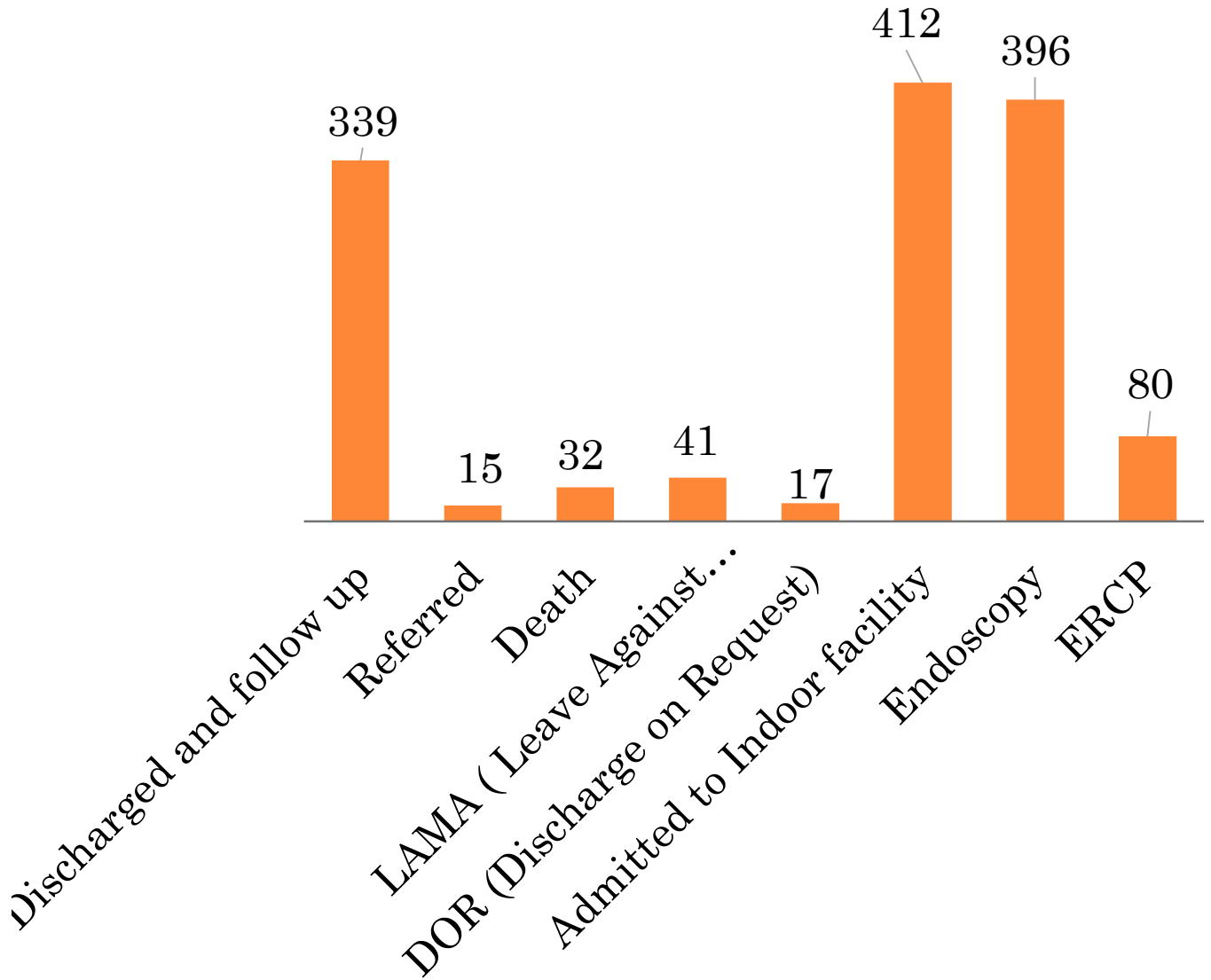
PRIMARY DAIGNOSIS



SECONDARY DIAGNOSIS



OUTCOME





DEPARTMENT OF GASTROENTEROLOGY

CENTER FOR LIVER AND DIGESTIVE DISEASE



Rawalpindi Medical University, Rawalpindi