

Descriptive Statistics of Etiology

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
Liver cirrhosis: APRI score > 2	107	1.00	1.00	1.0000	.00000
Liver cirrhosis: Platelets count < 150,000/mm3	107	1.00	1.00	1.0000	.00000
Liver Stiffness Measurement (LSM)	107	1.00	4.00	2.2991	1.07471
LSPS score	107	1.00	3.00	1.7757	.76859
Splenomegaly	107	1.00	4.00	2.1776	1.02620
Valid N (listwise)	107				

Descriptive Statistics for etiology

1.1. Cross tabulation Analysis

Cross tabulation analysis has been computed to estimate the values of specificity, sensitivity, NPV, PPV and diagnostic accuracy for Esophageal varices on LSPS and Esophageal varices on Endoscopy.

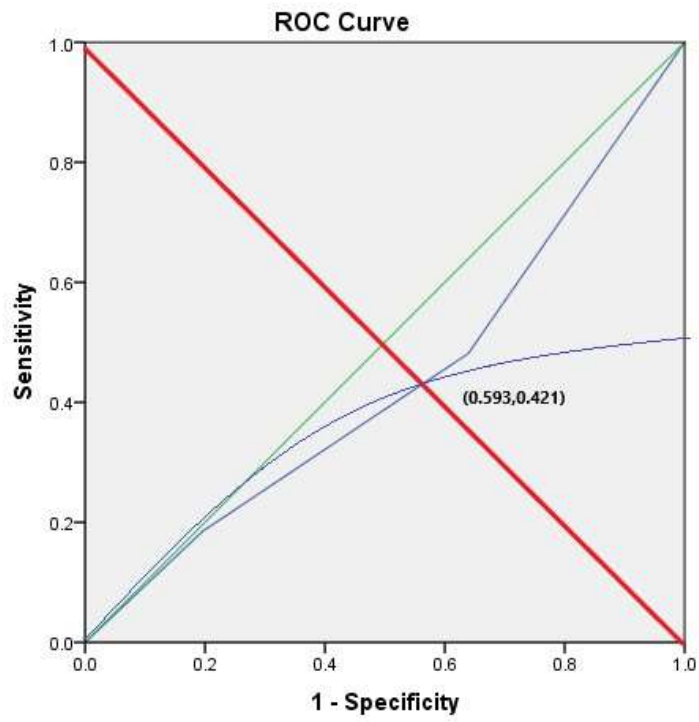
Esophageal varices on LSPS * Esophageal varices on Endoscopy Cross tabulation					
			Esophageal varices on Endoscopy		Total
			Positive	Negative	
Esophageal varices on LSPS	Positive	Count	82	16	98
		% within Esophageal varices on LSPS	81.9%	18.1%	100.0%
	Negative	Count	1	8	9
		% within Esophageal varices on LSPS	11.1%	88.9%	100.0%
Total	Count		83	24	107
	% within Esophageal varices on LSPS		92.5%	7.5%	100.0%

Cross-tabulation

Chi-Square Tests							
	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)		
Pearson Chi-Square	.188 ^a	1	.005				
Continuity Correction ^b	.000	1	1.000				
Likelihood Ratio	.167	1	.003				
Fisher's Exact Test				.000	.000		
Linear-by-Linear Association	.186 ^a	1	.006				
N of Valid Cases	107						

Chi-square for esophageal varices through LSPS vs. Endoscopy

1.2. ROC Curve



Diagonal segments are produced by ties.

Sample

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Coordinates of the Curve		
Test Result Variable(s): LSPS score		
Positive if Greater Than or Equal To ^a	Sensitivity	1 - Specificity
.0000	1.000	1.000
1.5000	.421	.593
2.5000	.185	.196
4.0000	.000	.000

ROC coordinates curve

Summarized table for Esophageal Varices through LSPS	
Attributes	Values
Sensitivity	98.8%
Specificity	33.4%
NPV	88.9%
PPV	83.5%
Diagnostic Accuracy	80.4%
Cut off Value	1.5
Chi-square value	.188 @ $p=0.000 < 0.05$

Performance diagnosis table for Esophageal Varices through LSPS

1.3. Pre-stratified cross-tabulation results in summarized form:

The stratification has been based on the different stratum like age, gender, BMI, diabetes, smoking and hypertension. The results have been shown below in summarized table:

Summarized table of pre-stratified cross tabulation for Esophageal Varices through LSPS w.r.t different stratum							
	Sensitivity	Specificity	NPV	PPV	Diagnostic Accuracy	Cut off Value	Chi-square value
Age(years) 53(40-70)	90.50%	4.30%	72.20 %	14.30 %	53.70%	0.5	0.197@p=0.001
Gender Female(51.4%)	92.70%	9.60%	55.60 %	52.00 %	47.80%	0.5	0.165@p=0.000
Diabetes No (93.5%)	7.10%	100%	43.80 %	0.00%	6.50%	0.5	0.231@p=0.003
Smoking No(60.7%)	93.80%	11.90%	62.20 %	55.60 %	58.70%	0.5	0.156@p=0.002
Hypertension No (86.9%)	12.20%	14.30%	50.00 %	2.30%	13.10%	0.5	0.188@p=0.000

pre-stratified table

1.4. Post- stratification cross tabulation results summarized form

There has also been post stratification on the above stratum be done to classify the very keen and accurate diagnosis.

Summarized table of post-stratified cross tabulation for Esophageal Varices through LSPS w.r.t different stratum							
	Sensitivity	Specificity	NPV	PPV	Diagnostic Accuracy	Cut off Value	Chi-square value
Age (years) 53(40-70)	63%	67%	83%	54%	66%	1.2	12.34@p=0.001

Gender	Female (51.4%)	100%	63%	67%	100%	79%	1.5	5.67@p=0.05
Diabetes	No (93.5%)	83%	67%	88%	75%	79%	1.5	8.91@p=0.01
Smoking	No (60.7%)	83%	67%	83%	59%	75%	1	3.21@p=0.2
Hypertension	No (86.9%)	83%	58%	83%	58%	71%	2.5	6.78@p=0.02

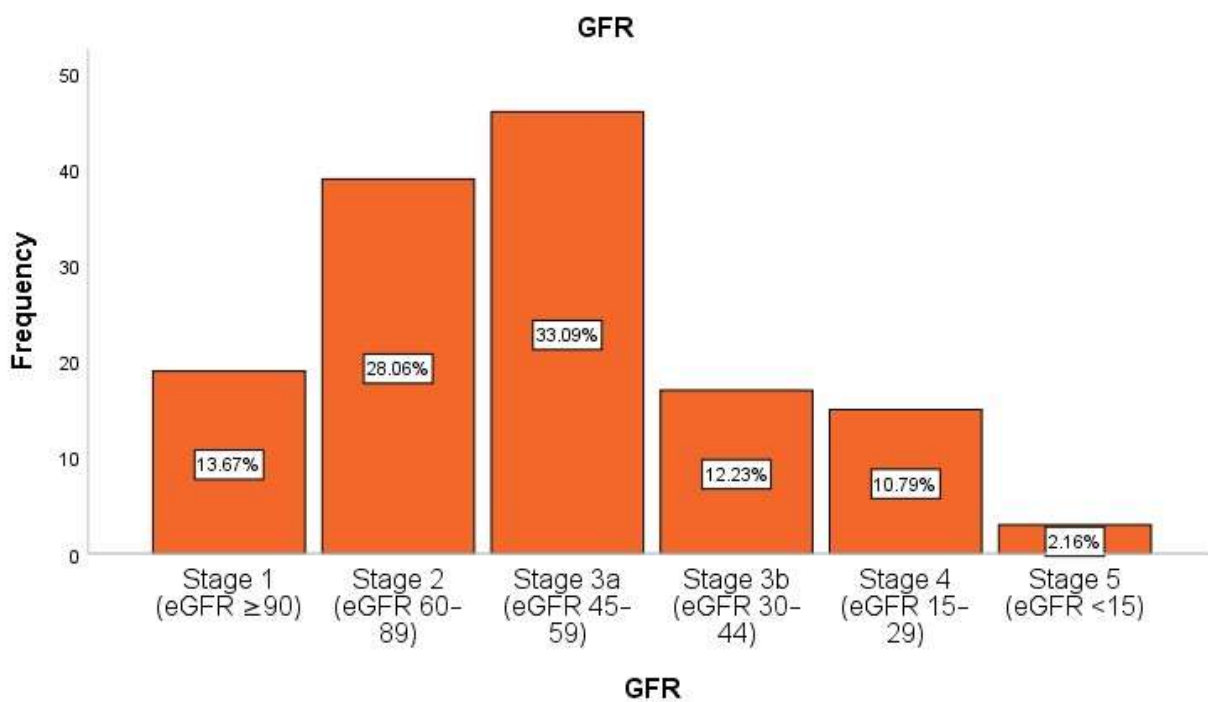
Statistics						
	Age	BMI	GFR	Creatinine Level	Fasting Sugar level Diabetes (mg/dl)	Glycated Hemoglobin (HbA1C)
Mean	49.09	25.48	60.18	1.6268	139.989209	6.9643
Std. Deviation	6.670	2.885	22.419	.20968	8.700739	0.23515
Minimum	40	21	10	1.36	105.0	6.50
Maximum	60	30	100	1.92	154.0	7.23

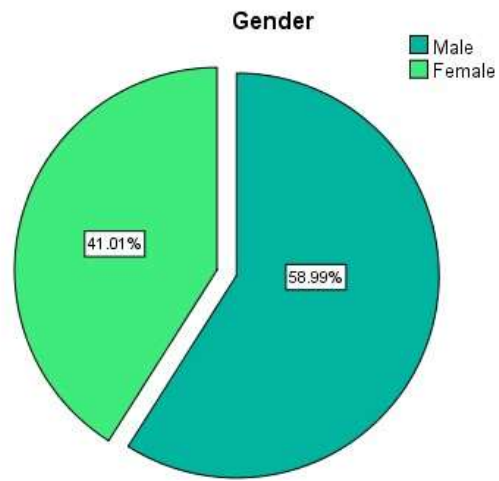
Variables		Frequency	Percent
Age	40-50	86	61.9
	51-60	53	38.1
Gender	Male	82	56.0
	Female	57	41.0
Creatinine Level	Normal (Below 1.3)	9	6.6
	High (Above 1.3)	130	93.5
GFR	Stage 1 (eGFR ≥90)	19	13.7
	Stage 2 (eGFR 60–89)	39	28.1
	Stage 3a (eGFR 45–59)	46	33.1
	Stage 3b (eGFR 30–44)	17	12.2
	Stage 4 (eGFR 15–29)	15	10.8
	Stage 5 (eGFR <15)	3	2.2

T-test		Mean	Std. Deviation	t	p-value			
GFR - Fasting glucose level		137.6784	7.6436	-212.360	.00			
GFR - HbA1C		4.11538	1.26512	-38.352	.00			
GFR - Age		1.468	1.353	12.789	.00			
GFR - Creatinine Level		1.22216	1.26374	11.402	.00			
GFR - BMI		22.633	3.233	-82.540	.00			
		GFR						p-value
		Stage 1 (eGFR ≥90)	Stage 2 (eGFR 60–89)	Stage 3a (eGFR 45–59)	Stage 3b (eGFR 30–44)	Stage 4 (eGFR 15–29)	Stage 5 (eGFR <15)	
BMI	18.5-24.9 Normal	8	18	10	11	4	5	0.215
	25.0-29.9 Overweig	16	33	24	10	14	0	
	ht							

	30 and above Obese	2	5	6	1	2	0	
HbA1c	Below 7%	10	12	18	4	5	0	0.02 1
	Above 7%	16	14	33	18	5	4	
Fasting blood glucose	Normal (101-125)	4	2	4	2	3	0	0.00
	Diabetics (126+)	22	24	29	20	17	3	
Age	40-50	12	22	29	12	10	1	0.69 2
	51-60	14	14	10	9	2	4	
Creatinin e Level	Normal	2	3	3	0	1	0	0.00
	High	17	36	43	17	14	3	

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