

**Role of Speckle Tracking  
Echocardiography in Assessment of  
Significance of Coronary Artery Lesion  
in Non ST Segment Elevation Acute  
Coronary Syndrome.**

**Thesis  
Submitted for Partial Fulfillment of Master  
Degree in Cardiology**

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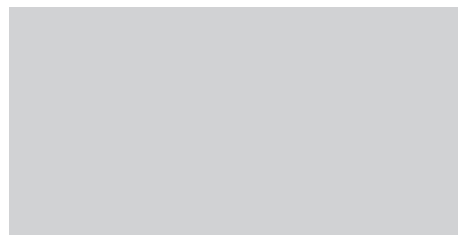
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## List of Contents

Title	Page No.
Introduction .....	1
Aim of the Work.....	2
<b>Review of Literature</b>	
• Acute coronary syndrome .....	3
• NSTEMI stratification .....	15
• Role of echocardiography in acute coronary syndrome ....	29
• Strain and strain rate (S/SR) .....	43
• Speckle tracking .....	61
Patients and Methods .....	77
Results .....	83
Discussion .....	97
Limitations of the study.....	103
Summary.....	105
Conclusions.....	107
Recommendations .....	109
References .....	111



## List of Tables

Table No.	Title	Page No.
<b>Table (1):</b>	Current definitions and prognosis of acute coronary syndrome according to troponinT concentration .....	10
<b>Table (2):</b>	Some risk scores .....	21
<b>Table (3):</b>	Mortality in hospital and at 6 months in low, intermediate, and high risk categories in registry populations, according to the GRACE risk score .....	24
<b>Table (4):</b>	ACCF/AHA classification: .....	25
<b>Table (5):</b>	Gender distribution .....	83
<b>Table (6):</b>	Risk factors distribution .....	84
<b>Table (7):</b>	Clinical findings .....	84
<b>Table (8):</b>	Cardiac enzymes levels .....	84
<b>Table (9):</b>	ECG findings .....	85
<b>Table (10):</b>	Echocardiographic findings .....	86
<b>Table (11):</b>	2D strain .....	87
<b>Table (12):</b>	Number of vessels diseased .....	87
<b>Table (13):</b>	Presence of total occlusion .....	87

<b>Table (14):</b> Correlations between GS and different patients` data .....	88
<b>Table (15):</b> Correlation between reduced GS and number of vessels diseased .....	89
<b>Table(16):</b> Comparison between the groups with different number of vessel diseased in GS values and number of segments with reduced strain. ....	91
<b>Table (17):</b> Comparison between the two groups ECG changes .....	92
<b>Table (18):</b> Comparison between the two groups in CPK and CKMB levels .....	92
<b>Table (19):</b> Comparison between the two groups regarding LV dimensions and function: .....	93
<b>Table (20):</b> Correlation between reduced GS and total occlusion .....	93
<b>Table (21):</b> Comparison between the two groups in 2D strain parameters .....	94
<b>Table (22):</b> Co ordinate of the ROC curve .....	95



## List of Figures

Fig. No.	Title	Page No.
<b>Fig. (1):</b>	diagram showing the correlations between velocity and displacement parameters.....	47
<b>Fig. (2):</b>	The basic direction in three dimensions are given by the coordinate system given. ....	48
<b>Fig. (3):</b>	In the heart, the usual directions are longitudinal, transmural and circumferential as shown to the left. ....	49
<b>Fig. (4):</b>	Diastolic and systolic images of the heart Systolic shortening of the left ventricle relative to diastolic length, is the systolic strain of the ventricle. ....	50
<b>Fig. (5):</b>	Both the strain length, $L_0$ and the shortening ( $L - L_0$ ) will be different when measured along a skewed line (red) and even longer along a line following the wall curvature (blue). ....	51
<b>Fig. (6):</b>	In short axis view, the septum and inferior wall can be imagined in cross section. ....	52
<b>Fig. (7):</b>	Simplified and exaggerated diagram showing the relation between fiber thickening and wall thickening. ....	54
<b>Fig. (8):</b>	Area strain. ....	55

<b>Fig. (9):</b> Doppler derived Strain imaging .....	59
<b>Fig. (10):</b> Typical speckle pattern in the myocardium. .....	62
<b>Fig. (11):</b> Speckle tracking. Defining a kernel in the myocardium .....	64
<b>Fig. (12):</b> Angle independency of non doppler 2-dimensional(2D)strain. ....	69
<b>Fig. (13):</b> para sternal short axis view tracking quality is graded by the software. ....	71
<b>Fig. (14):</b> Strain curves and numeric values. Apical 2-chamber view. ....	72
<b>Fig. (15):</b> Apical 4 chamber «quad» view . ....	73
<b>Fig. (16):</b> Bull`s eye map of normal functioning left ventricle (LV). ....	74
<b>Fig. (17):</b> Graph showing ROC curve of GS and no. of segments having reduced strain with presence of total occlusion. ....	95

## List of Abbreviations

2-d	Two dimensional
2DS	Two dimensional strain
ACS	Acute coronary syndrome
AHA	American Heart Association
AFI	Automated functional imaging
ASE	American society of echocardiography
AUC	Area under curve
AVC	Aortic valve closure
CAD	Coronary artery disease
CKMB	Creatine phospho kinase ( Muscle , Brain)
CMR	Contrast magnetic resonance
CPK	Creatine phospho kinase
DM	Diabetes mellitus
ECG	Electrocardiogram
EDD	End diastolic diameter
EF	Ejection fraction
ESD	End systolic diameter

FIG	Figure
GS	Global strain
GLPSS	Global longitudinal peak systolic strain
IRA	Infarct related artery
LAD	Left anterior descending
LBBB	Left bundle branch block
LCX	Left circumflex
LPSS	Longitudinal peak systolic strain
LV	Left ventricle
LVEF.	Left ventricular ejection fraction
NPV	Negative predictive value
MI	Myocardial infarction
MVG	Myocardial velocity gradient
NSTEMI	Non ST elevation myocardial infarction
PCI	Percutaneous coronary intervention
PPV	Positive predictive value
PSL	Peak systolic strain
RCA	Right coronary artery

ROC curve receiver operating characteristic curve

RV Right ventricle

S Strain

SR Strain rate

SRI Strain rate imaging

STE Speckle tracking echocardiography

STEMI ST elevation myocardial infarction

TDE Tissue Doppler Echocardiography

TDI Tissue Doppler Imaging

TVI Tissue velocity imaging

WMSI wall motion segmental index





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# The Protocol

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