



OPTIMIZATION OF CORONARY SINUS LEAD POSITION IN CARDIAC RESYNCHRONIZATION THERAPY GUIDED BY THREE DIMENSIONAL ECHOCARDIOGRAPHY

Thesis

*Submitted For Partial Fulfillment of MD Degree
In Cardiovascular Medicine*

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2015



Acknowledgement

Thanks first and last to **ALLAH** as we owe Him for His great care, support and guidance in every step in our life.

I would like to express my deep gratefulness to **Prof. Dr. Ali Ahmed El Abd**, Professor of Cardiology, Ain Shams University, for his concern, guidance and continuous encouragement.

I am grateful to **Prof. Dr. Mohamed Amin Abd El Hamid**, Assistant Professor of Cardiology, Ain Shams University, for his help and encouragement.

I am also grateful to **Dr. John Kamel Zarif**, Lecturer of Cardiology, Ain Shams University, for his generous continuous help and valuable suggestions.

I am grateful to **Dr. Tarek Rashid Mohamed**, Lecturer of Cardiology, Ain Shams University, for his help and encouragement.

My special thanks to **Dr. Haitham Abd El Fattah Badran**, Lecturer of Cardiology Ain Shams University, for his meticulous supervision.

I must also express my thanks to all my colleagues who helped me in this thesis.

Last but not least, I have to thank my family for providing me their help and support, which enabled me to carry out this work.

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List of Abbreviations

2D	Two-dimensional
3D	Three-dimensional
ACEI	Angiotension converting enzyme inhibitors
AF	Atrial fibrillation
ANP	atrial natriuretic peptide
AO	Aorta
AP	Anteroposterior
ARB	Angiotensin receptor blockers
ASD	Atrial septal defect
AV	Atrio-ventricular
AVC	Aortic valve closure
AVO	Aortic valve opening
AVP	Arginine vasopressin
BB	Beta blockers
BMI	Body mass index
BNP	Brain natriuretic peptide
BP	Blood pressure
BSA	body surface area
CABG	Coronary artery bypass grafting
CAD	Coronary artery disease
Ccs	Clinical composite score
CHF	Congestive heart faiulure
CMR	Cardiac magnetic resonance imaging
COPD	Chronic obstructive pulmonary disease
CPET	Cardiopulmonary exercise testing

List of Abbreviations (Cont.)

CRP	C-reactive protein
CRT-d	Cardiac Resynchronization Therapy with Defibrillator
CRT-p	Cardiac Resynchronization Therapy (Pacing)
CS	Coronary sinus
CT	Computed tomography
CVS	Cerebrovascular stroke
DBP	Diastolic blood pressure
DD	Diastolic Dysfunction
DM	Diabetes mellitus .
Dp/dt	Change in pressure over change in time
ECG	Electriccardiogram
EF	Ejection fraction
ESC	European Society of Cardiology
ESR	Erythrocyte sedimentation rate
FS	Fractional shortening
FVA	Full volume aquision
HF	Heart failure
HFREF	Heart failure with reduced ejection fraction
HOCM	Hypertrophic obstructive cardio-myopathy
HR	Heart rate
IDCM	Idiopathic dilated cardiomyopathy
IHD	Ischemic heart disease

List of Abbreviations(Cont.)

IL	Interleukin
ISFC	International society and federation of cardiology
IVCD	Intraventricular conduction delay
IVMD	Interventricular mechanical dyssynchrony
IVS	Interventricular septal thickness
LA	Left atrium
LAD	Left atrial diameter
LAO	left anterior oblique
LBBB	Left bundle branch block
LV	Left ventricle
LVD	Left ventricular dyssynchrony
LVEDD	Left ventricular end diastolic dimension
LVEDV	Left ventricular end diastolic volume
LVEF	Left ventricular ejection fraction
LVESD	left ventricular end systolic diameter
LVESV	Left ventricular end systolic volume
LVFT/RR	Left ventricular filling time in relation to the cardiac cycle
LVFW	Left ventricular free wall
LVMD	Left ventricular mechanical dyssynchrony
LVPEP	Left ventricular pre ejection period
MI	Myocardial infarction
MLHFQ	Minnesota Living with Heart Failure Questionnaire

List of Abbreviations(Cont.)

MR	Mitral regurgitation
MRI	Magnetic resonance imaging
MSCT	Multislice CT scan
Msec	Milliseconds
MWT	Minute walk test
NA	Narrow angle
NE	Norepinephrine
NYHA	New York Heart Association
PAP	Pulmonary artery pressure
PCI	Percutaneous coronary intervention
PCWP	Pulmonary capillary wedge pressure
PET	Positron emission tomography
PRA	Plasma renin activity
PSLAX	Standard parasternal long-axis
PW	Posterior wall
QOL	Quality of life
RAO	Right anterior oblique
RT3D	Real time three dimensional echocardiography
RV	Right ventricle
RVEF	Right ventricular ejection fraction
RVPEP	Right ventricular pre ejection period
RVSP	Right ventricular systolic pressure
SBP	Sytolic blood pressure
SD	Standard deviation

List of Abbreviations(Cont.)

SD-12	Standard deviation of the twelve basal left ventricular segments
SD-16	Standard deviation of the sixteen basal left ventricular segments
SD-6	Standard deviation of the six basal left ventricular segments
SDI	Systolic dyssynchrony index
SPECT	Single-photon emission computed tomography
SPSS	Statistical Package for the Social Sciences
SPWMD	Septal to posterior wall motion delay
SV	Stroke volume
TD	Tissue Doppler
TDI	Tissue Doppler imaging
Ti	Time to isovolumec contraction
TNF	Tumor necrosis factor
TNF	Tumor necrosis factor
TAO	Time to Aortic valve opening
TPO	Time to pulmonary valve opening
TR	Tricuspid regurgitation
TS	Time to peak systolic velocity
TSI	Tissue synchronization imaging
VS	Ventriculat septum
VSD	Ventricular septal defect
WHO	World health organization

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