

**PREGNANCY IN
ISCHEMIC HEART
DISEASE**

By

Mohamed Mahmoud Ahmed

Assistant Professor Of Cardiology

Department -Faculty Of Medicine

Al-Azhar University- Assiut

2019

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

(قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا

عَلَّمْتَنَا إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ)

صدق الله العظيم

سورة البقرة الآية ٣٢

Contents

Subject	Page
Introduction	1
Pregnancy in ischemic heart disease	2
Classification of IHD	3
Epidemiology of MI in pregnancy	3
Prevalence.....	4
Maternal mortality.....	6
Foetal loss	6
Predisposing factors.....	7
MI and etiological classification.....	7
Diagnosis of MI in pregnancy.....	8
Pregnancy-associated plasma protein-A.....	9
Clinical presentation	10
Laboratory investigation	11
Diagnostic imaging (ECG and exercise test).....	11
Echo, radionuclide imaging, X-ray &CT and MRI	12
Invasive testing	13
Management.....	14
General measures.....	14
Specific measures	17
Percutaneous coronary intervention (PCI)	19
Coronary artery bypass graft (CABG).....	22
Labor and delivery.....	22
Timing of delivery	22
Analgesia in labor.....	22
Mode of delivery	23

Management of the third stage of delivery.....	24
Indication of invasive monitoring	24
Preconception counseling and monitoring.....	25
Long term managements	26
Risk in future of pregnancy.....	27
Conclusion	28
References	30

List of abbreviation

IHD	Ischemic heart diseases
MI	Myocardial infarction
CAD	Coronary artery disease
PGE2	Prostaglandins
AMA	Advanced maternal age
MACE	Major adverse cardiovascular events
ACS	Acute coronary syndrome
ECG	Electrocardiography
MRI	Magnetic resonance imaging
NSTEMI	Non ST elevation myocardial infarction
UA	Unstable angina
CV	Cardiovascular
CVD	Cardiovascular disease
LOE	Low of evidence
PAPP-A	Pregnancy associated plasma protein -A
STEMI	ST elevation Myocardial infarction
CK-MB	Creatine kinase MB
t-PA	Tissue plasminogen activator
TNKase	Tenecteplase
PCI	Percutaneous coronary intervention
SCAD	Spontaneous coronary artery dissection

CABG	Coronary artery bypass graft
ACEIs	Angiotensin converting enzyme inhibitors
ARBs	Angiotensin II receptor blockers
NYHA	New York heart association
LV	Left ventricle