



# SREE NARAYANA NURSING COLLEGE

Stonehousepet (po), Chinthareddypalem, Nellore - 524002.

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Recognized by Indian Nursing Council vide letter No. 02/Sep/2006 INC dated : 29.09.2006 and

A.P. Nurses & Midwives Council, letter No. APNMC/CON/5212/2006, dated: 4/11/2006

Affiliated to Dr. Y.S.R. University of Health Sciences, A.P. Vijayawada.



## List of Teachers Using ICT- Enabled tools (2023 - 2024)

S.NO	Name of the Full-time Teacher	Designation	Name of the Department	ICT Tools Used
1	Dr Irala Venkata Mamatha	Principal/ Professor	Child Health Nursing	PPT, Swayam, MOOC & LMS
2	Mrs. Jayanthi. V	Professor	OBG	PPT, Swayam, MOOC & LMS
3	Mrs. Sarumathi. E	Professor	Medical Surgical Nursing	PPT, Swayam, MOOC & LMS
4	Mrs Veeramgari Rupasarithareddy	Professor	Medical Surgical Nursing	PPT, Swayam, MOOC & LMS
5	Mrs.Guduru Usha	Associate Professor	Medical Surgical Nursing	PPT, Swayam, MOOC & LMS
6	Mrs Dindu Sai Dharanija	Assistant Professor	Medical Surgical Nursing	PPT, Swayam, MOOC & LMS
7	Mrs Vinodini Chukka	Associate Professor	Child Health Nursing	PPT, Swayam, MOOC & LMS
8	Mrs Bejepalli Blessy Rani	Assistant Professor	Child Health Nursing	PPT, Swayam, MOOC & LMS
9	Mrs.A.Shabnam	Assistant Professor	Child Health Nursing	PPT, Swayam, MOOC & LMS
10	Mrs Kalpana Boddu	Professor	Community Health Nursing	PPT, Swayam, MOOC & LMS
11	Mrs. G. ARUNA	Assistant Professor	OBG	PPT, Swayam, MOOC & LMS
12	Mrs. T. LALITHAKUMARI	Assistant Professor	Mental Health Nursing	PPT, Swayam, MOOC & LMS
13	Mrs Jupudi Anusha	Associate Professor	Community Health Nursing	PPT, Swayam, MOOC & LMS
14	Dr. Surada Maheswari	Assistant Professor	Community Health Nursing	PPT, Swayam, MOOC & LMS
15	Ms.Policharla Sudhamani	Assistant Professor	Community Health Nursing	PPT, Swayam, MOOC & LMS



  
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16	Mrs Shabana. Sk	Professor	Mental Health Nursing	PPT & LMS
17	Ms.Kanimela Deepa	Assistant Professor	Mental Health Nursing	PPT & LMS
18	Mrs J Thenmozhi E	Associate Professor	OBG	PPT, Videos & LMS
19	Mrs J.Baburayuni Bhargavi	Associate Professor	OBG	PPT, Videos & LMS
20	Mrs.Bodduru Pallavi	Assistant Professor	OBG	PPT, Videos & LMS
21	Ms.Kalavathi Daggumati	Nursing Tutor	OBG	PPT, Videos & LMS
22	Ms Malapati Lavanya	Nursing Tutor	Mental Health Nursing	PPT, ZOOM & LMS
23	J Ms orepalli. Ribka Priya Ranjani	Nursing Tutor	Mental Health Nursing	PPT, Videos & LMS
24	Ms Sunkara Yasoda	Nursing Tutor	Mental Health Nursing	PPT, Videos & LMS
25	Ms .Kamalapuram Vasundhara	Nursing Tutor	Mental Health Nursing	PPT, Videos & LMS
26	Ms .Ravuru Soniya	Nursing Tutor	Mental Health Nursing	PPT, Videos & LMS
27	Ms .Vennapusa Revathi	Nursing Tutor	Medical Surgical Nursing	PPT & LMS
28	Ms .Bejjala Deepthi	Nursing Tutor	Mental Health Nursing	PPT & LMS
29	Ms .Mocharla Bhavani	Nursing Tutor	Mental Health Nursing	PPT, Videos & LMS
30	Ms .Sneha Thomas	Nursing Tutor	Medical Surgical Nursing	PPT & LMS
31	Ms .Bandi Divya Kanthi	Nursing Tutor	Mental Health Nursing	PPT & LMS
32	Ms .Pitti Aruna	Nursing Tutor	Mental Health Nursing	PPT & LMS
33	Ms .Vidavaluri Srujana	Nursing Tutor	Medical Surgical Nursing	PPT & LMS
34	Ms.Musali Sukanya	Nursing Tutor	Mental Health Nursing	PPT & LMS



*[Signature]*  
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35	Ms .Athira Suku	Nursing Tutor	Medical Surgical Nursing	PPT & LMS
36	Ms .Devarakonda Neeraja	Nursing Tutor	OBG	PPT & LMS
37	Ms .Manthry Mary	Nursing Tutor	OBG	PPT & LMS
38	Ms .Kishore N	Nursing Tutor	OBG	PPT & LMS
39	Ms .Gundluru Reddi Sekhar	Nursing Tutor	OBG	PPT & LMS
40	Ms .Rapuru Divya	Nursing Tutor	OBG	PPT & LMS
41	Ms .Thanda Tejaswini	Nursing Tutor	Child Health Nursing	PPT & LMS
42	Ms .Ginneri Preethi	Nursing Tutor	Child Health Nursing	PPT & LMS
43	Ms .Saipaku Lakshmi Prasanna	Nursing Tutor	Child Health Nursing	PPT & LMS
44	Ms .Srikantam Sahasra Nag	Nursing Tutor	Child Health Nursing	PPT & LMS
45	Ms .K. Sindhu Priya	Nursing Tutor	Child Health Nursing	PPT & LMS
46	Ms .R Divya Sree	Nursing Tutor	Community Health Nursing	PPT & LMS
47	Ms .Deenu Susan Kurian	Nursing Tutor	Child Health Nursing	PPT
48	Ms .Praseetha Prasad	Nursing Tutor	Child Health Nursing	PPT
49	Ms .Ann Maria Jose	Nursing Tutor	Child Health Nursing	PPT
50	Ms .Arathy P S	Nursing Tutor	Child Health Nursing	PPT
51	Ms .Jini Joseph	Nursing Tutor	Child Health Nursing	PPT
52	Ms .V. Nirmala	Nursing Tutor	Community Health Nursing	PPT
53	Ms .Silpa Thomas	Nursing Tutor	Community Health Nursing	PPT
54	Ms .Jisha P Thomas	Nursing Tutor	Community Health Nursing	PPT
55	Ms .Treesa Joseph	Nursing Tutor	Community Health Nursing	PPT
56	Ms .P Rajesh	Nursing Tutor	Community Health Nursing	PPT
57	Ms .Dana Srividya	Nursing Tutor	Mental Health Nursing	PPT



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## GENERAL INFORMATION

**Name of the Faculty :** Mrs. Roopa Saritha Reddy, M.Sc., (Nursing)

**Subject:** Adult Health Nursing-1

**Unit :** VII

**Topic:** Myocardial Infarction

**Group :** B.Sc. Nursing III Semester Batch

**Venue :** II year B.Sc. nursing class room

**Duration:** 2 Hours

**No. of students:** 93

**Previous Knowledge:** Students are aware of anatomy and physiology of Cardio vascular system & coronary circulation

**Method of Teaching:** Lecture cum Discussion

**Media of Instruction:** White board, LCD and charts.



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### GENERAL OBJECTIVE :


At the end of the teaching the students are able to explain the definition, incidence, etiology, patho-physiology, clinical manifestations, assessment, diagnostic findings and management of Myocardial Infarction and develop attitude and skills in providing care to patients with Myocardial Infarction.

### SPECIFIC OBJECTIVES :

At the end of the teaching, the students will be able to ;

- Define Myocardial Infarction.
- Estimate the incidence of Myocardial Infarction.
- List the etiology and risk factors of Myocardial Infarction.
- Explain the patho-physiology of Myocardial Infarction.
- Identify the signs and symptoms of Myocardial Infarction.
- Mention the diagnostic evaluation of Myocardial Infarction.
- Describe the Medical Management of Myocardial Infarction.
- Discuss the surgical management of Myocardial Infarction
- Discuss the phases of cardiac rehabilitation.

Planned date	Actual date & Duration	Time	Specific Objectives	Content	Teacher & Learner Activity	A.V. Aids	Evaluation
20/10/23	28/10/23 II & III Hour	3min	To introduce the concept of Myocardial	<b>INTRODUCTION :</b> Myocardial infarction (MI) is a process by which the myocardial tissue is destroyed in regions of the heart	Learning in the Humanities	Black Board & PPT	-

  
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(10 :00 A.M to 12 :00 P.M)	5min	Infarction  To define Myocardial Infarction	that are deprived of an adequate blood supply because of a reduced coronary blood flow. The cause of the reduced blood flow is either a critical narrowing of the coronary artery due to atherosclerosis or a complete occlusion of an artery due to embolus or a thrombus. Decreased coronary blood flow may also result from shock and hemorrhage. In each case there is a profound imbalance between myocardial oxygen supply and demand.  <b>DEFINITION :</b> Myocardial Infarction occurs when there is ischemia (inadequate blood flow) to a part of the heart that results in death of the myocardial cells.	Learning in the Humanities	Black Board & PPT	MCQ's
	2min	To estimate the Incidence of M.I.	<b>INCIDENCE :</b> It is estimated that there are 160,000 deaths with Myocardial infarction and 16,000 deaths occur every year.	Participatory Learning	Black board &PPT	MCQ's
	15 min	To list the etiology and risk factors of Myocardial Infarction.	<b>ETIOLOGY/RISK FACTORS :</b> <b>i.Non- Modifiable Risk Factors :</b> 1. <u>Age</u> : The risk factor of MI increases with age, doubling each decade after 55years of age 2. <u>Gender</u> : MI more commonly occur in men than women and they have the tendency to suffer with stroke. 3. <u>Race</u> : MI is found mostly in African Americans and southern white men. 4. <u>Family History</u> : A family history of MI increases the	Learning in the Humanities	Black board & PPT  Black board, PPT	MCQ's

risk of MI in the generation.

**ii. Modifiable Risk Factors:**

1.Cigarette Smoking: cigarette smoking increases the blood carbon monoxide (CO) levels. Thus oxygen supply to the heart is severely limited. The nicotinic acid present in the smoke releases catecholamines which results in arterial constriction. Moreover the smoke has the ability to form adhesions leading to thrombus formation.

2.Elevated blood pressure : An elevated BP triggers a very high pressure gradient against which the left ventricle must pump.

3.Hyperlipidemia : lipids have the property of being readily soluble in solvents than in water. The lipids are attached with the proteins and form lipoproteins. These lipoproteins are believed to play a role in the development of atherosclerosis

4.Hyperglycemia: hyperglycemia fosters increased platelet aggregation which can lead to thrombus formation.

5.Behavior Patterns: Behaviors that characterizes the people like competitive striving for achievement, exaggerated sense of time, urgency, aggressiveness, hostility are prone to coronary atherosclerosis.

**PATHOPHYSIOLOGY :**  
 Due to fatty streak deposition or injury to the walls of the coronary arteries  
 ↓  
 Attraction of the platelets to the injured site

Explain the patho physiology of

5min

Participatory Learning

Back board & PPT

?

One word questions

		10 min	<p>Myocardial Infarction</p> <p style="text-align: center;">↓</p> <p>Development of thrombus</p> <p style="text-align: center;">↓</p> <p>Narrowing of the lumen of the blood vessel</p> <p style="text-align: center;">↓</p> <p>Obstruction of the coronary blood flow</p> <p style="text-align: center;">↓</p> <p>Lack of oxygen supply to the tissues</p> <p style="text-align: center;">↓</p> <p>Infarction to Myocardial tissue</p> <p><b><u>CLINICAL MANIFESTATIONS :</u></b></p> <ul style="list-style-type: none"> <li>• Chest pain characterized by heavy, vise like pain which raduates to shoulders and down the arms, usually the left arms</li> <li>• Shortness of breath</li> <li>• Pallor</li> <li>• Cold clammy skin</li> <li>• Diaphoresis</li> <li>• Dizziness</li> <li>• Light headedness</li> <li>• Nausea</li> <li>• Vomiting</li> <li>• fainting</li> </ul> <p><b><u>DIAGNOSTIC FINDINGS :</u></b></p> <ul style="list-style-type: none"> <li>• History collection</li> <li>• Physical Examination</li> </ul> <p>To identify the clinical manifestations of Myocardial Infarction</p>	Self- directed Learning	Back board & PPT	MCQ's
		5min	To mention the	Problem solving	Back board & PPT	



			<p>diagnostic evaluation of Myocardial Infarction</p> <ul style="list-style-type: none"> <li>• Cardio vascular Examination</li> <li>• Electrocardiogram</li> <li>• Echocardiogram</li> <li>• Serum cardiac enzymes • Complete blood count</li> <li>• CT scan</li> <li>• CT angiography</li> <li>• MRI</li> <li>• MR Angiography</li> <li>• Positron Emission Tomography</li> <li>• Multigated nuclear scans</li> <li>• Coronary Angiography</li> </ul> <p><b><u>MANAGEMENT :</u></b> <b><u>Medical Management :</u></b></p> <p>i. Drug Therapy:          &gt;Anti platelet drugs : Clopidogrel, Ecospirin          &gt;Thrombolytic therapy: streptokinase, Urokinase, Anistreplase          &gt;Calcium channel blockers: Nimodip, amlong          &gt;Anti anginal drugs: Nitroglycerin, Nitrocontin ii.          Maintain ABC's of the patient          iii. Oxygen administration          iv. Artificial airway insertion          v. Endo tracheal Intubation &amp; Mechanical ventilation          vi. Adequate hydration          vii. Monitor intake output chart.</p> <p><b><u>Per cutaneous coronary Interventions :</u></b>          i. Per cutaneous coronary angioplasty          ii. Trans myocardial revascularization</p>	<p>methodoogies</p> <p>Problem solving methodologies</p>	<p>Black board &amp; PPT</p>	<p>One word questions</p> <p>MCQ's</p>
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		15 Min	To draw a nursing care plan for a patient with Myocardial Infarction	<p><b><u>Surgical Management:</u></b> Coronary Artery Bypass Grafting : It is a procedure in which blood supply to the coronary arteries is established by using internal mammary artery or saphenous vein grafts.</p> <p><b><u>NURSING MANGEMENT :</u></b></p> <ul style="list-style-type: none"> <li>• Chest pain related to reduced coronary blood flow.</li> <li>• Ineffective breathing pattern related to decreased blood flow to pulmonary capillaries secondary to decreased ventricular contractility.</li> <li>• Impaired tissue perfusion related to decreased cardiac output.</li> <li>• Anxiety related to fear of death.</li> <li>• Deficient self care related to imposed bed rest.</li> <li>• Deficient Knowledge regarding prognosis and self care management.</li> </ul>	Project based Learning	LCD & PPT	MCQ's
		15 Min	To describe the phases of cardiac rehabilitation	<p><b><u>CARDIAC REHABILITATION :</u></b></p> <p><b><u>Phase1 :</u></b> This phase occurs during hospitalization. In this phase the nurse assist the patient towards the realization of his goal towards independence. <b><u>Phase2 :</u></b> The nurse explains the nurse about the disease and answers questions honestly and reassures the patients to do a useful economic life and resuming his activities.</p> <p><b><u>Phase 3 :</u></b> the goal of third phase is to continue to restore the patient activity levels that allow the person to return to work or return to activities in which he participated before the illness. This phase is usually</p>	Participatory Learning	PPT	Objective type questions



			<p>accomplished by enrolling the patient in a formal rehabilitation program that provides supervised incremental increase in activities and exercise.</p> <p><b>Phase 4 :</b> This focuses on long term conditioning and the maintenance of cardiovascular stability. The patient is usually very self directed during this phase and does not require a supervised program.</p>				
		10 Min	To summarize the topic	<p><b>SUMMARY:</b> Till now we have seen the definition, incidence, etiology &amp; risk factors, pathophysiology, clinical manifestation, diagnostic findings and management of a patient with Myocardial Infarction</p>		PPT	Objective type questions
		15 Min	To recapitalize the topic	<p><b>Recapitalization :</b></p> <ul style="list-style-type: none"> <li>• Define Myocardial Infarction.</li> <li>• Estimate the incidence of Myocardial Infarction.</li> <li>• List the etiology and risk factors of Myocardial Infarction.</li> <li>• Explain the pathophysiology of Myocardial Infarction.</li> <li>• Identify the signs and symptoms of Myocardial Infarction.</li> <li>• Mention the diagnostic evaluation of Myocardial Infarction.</li> <li>• Describe the Medical Management of Myocardial Infarction.</li> <li>• Discuss the surgical management of Myocardial Infarction</li> </ul>	Integrated Learning	PPT	Short answer type questions

**REFERENCES :**

1.Lewis Hitkemper, (2009) "Text book of Medical surgical Nursing", Mosby Publishers, Pg.1563-1571.

2.Black. M.Joyce, (2007), "Text book of Medical Surgical Nursing", W.B. Saunder's, Philadelphia, Pg. 1732-1742.

3.Brunner & suddarth (2009), "Text book of Medical surgical Nursing",



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