

DR D.Y. PATIL DEEMED UNIVERSITY
COLLEGE OF NURSING
PIMPRI, PUNE-18

Subject: MEDICAL SURGICAL NURSING FIRST Year P.B.BSc. Nursing

Faculty: Manisha Gaikwad

UNIT	TOPIC	No of lectures	Lecture Serial No
UNIT 1	Introduction to medical surgical nursing. - Review of concepts of comprehensive nursing care in medical surgical conditions.	2	1-3
	- Nurse, patient & his/her family - Functions of nurse in the outpatient department. - Intensive care units. * Staff requirement. Client's needs & nsg. care.	2	3-5
UNIT 2	UNIT II NURSING MANAGEMENT OF PATIENTS WITH SPECIFIC PROBLEMS 10 hrs		
	- Fluid & electrolyte imbalance. - Dyspnoea, cough & respiratory obstruction.	2	6-8
	- Fever & nursing care. - Shock & nursing care. - Unconsciousness & nursing care. - Pain perception & nursing care.	2	9-11
	- Acute & chronic illness & nursing care. - Terminal illness & nursing care. - Ageing & illness & nursing care. - Pre & post-operative care.	2	12-14
	- Clients with CNS disorders. - Pathophysiology, diagnostic procedures & management of : - cerebro-vascular accident & nursing care. - cranial, spinal & peripheral neuropathies & nursing care. - headache & intractable pain & nursing care. - epilepsy & nursing care.	2	15-17
	- nursing care of clients with infectious & inflammatory diseases & trauma of the nervous system. - nursing care of clients with common CNS disorders.	2	18-20

	<p>- recent advances in diagnostic & treatment modalities & drugs used in CNS disorders.</p> <p>- brain, spinal tumours, congenital malformations, degenerative disorders.</p> <p>UNIT IV NURSING MANAGEMENT OF PATIENTS WITH CARDIOVASCULAR PROBLEMS. 08 hrs</p> <p>- Review of relevant anatomy & physiology of cardio-vascular system & assessment of clients with cardio-vascular disorders.</p> <p>- Pathophysiology, diagnostic procedures & management of-</p> <p>- ischaemic heart disease.</p> <p>- cardiac arrhythmias.</p> <p>- congestive cardiac failure.</p> <p>- rheumatic & other valvular heart diseases.</p> <p>- endocarditis, cardiomyopathies, congenital heart diseases, hypertension, heart block.</p> <p>- cardiac emergencies: cardiac arrest, acute pulmonary oedema, cardiac tamponade, cardiogenic shock, aneurisms & peripherovascular disorders, recent advancement in cardiology.</p> <p>UNIT V NURSING MANAGEMENT OF PATIENT WITH RESPIRATORY PROBLEMS. 06 hrs</p> <p>- Review of anatomy & physiology of respiratory system & assessment of clients with respiratory disorders.</p> <p>- Pathophysiology, diagnostic procedures and management of upper and lower respiratory track infection</p> <p>- Bronchitis, bronchiectasis & nursing care.</p> <p>- Asthama, emphysema, empyema, atelectasis, COPD and nursing care of clients with inChest injuries, resp. arrest & insufficiency</p> <p>- Special respiratory therapies & drugs used in the management continence.</p>	<p></p> <p>1</p> <p>2</p> <p>2</p> <p>2</p> <p>1</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p>	<p>21-22</p> <p>23-25</p> <p>26-28</p> <p>29-31</p> <p>32-33</p> <p>34-36</p> <p>37-39</p> <p>40-41</p> <p>42-44</p>
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	<p>Review of anatomy & physiology of the genito-urinary system & assessment of clients with genito-urinary problems.</p> <ul style="list-style-type: none"> - Pathophysiology & management of- - congenital disorders, urinary infections. - nephritis, renal calculi. - acute renal failure, chronic renal failure, end stage renal disease. - special procedures : dialysis, renal transplant. - benign prostatic hypertrophy. - drugs used in the management of these patients. 	1	45-46
		1	47-48
		1	49-50
		2	51-53
	<p>Review of anatomy & physiology of gastro-intestinal system & accessory organs& assessment of clients with gastro-intestinal tract disorders.</p> <ul style="list-style-type: none"> - Pathophysiology, diagnostic procedures & management of - - gastro-intestinal bleeding. - peptic ulcer. - acute abdomen. - infections, colitis, diarrhoea, dysentery & mal-absorption syndrome. - cholecystitis. - hepatitis, hepatic coma & cirrhosis of liver, portal hypertension. - pancreatitis. - tumours, hernias, fistulas, fissures, haemorrhoids. - drugs used in the management of these patients. 	1	54-55
		2	56-58
		2	59-61
		2	63-65
		2	66-68
		1	69-70

	<p>Review of anatomy & physiology & assessment of clients with endocrine disorders.</p> <ul style="list-style-type: none"> - Pathophysiology, diagnostic procedures & management of - - thyroid disorders. - diabetes mellitus, diabetes insipidus. - adrenal tumours, pituitary disorders. - drugs used, diagnostic procedures & nursing management of patient with above problems. 	<p>1</p> <p>2</p> <p>2</p>	<p>71-72</p> <p>73-75</p> <p>76-78</p>
	<p>Review of anatomy, physiology & assessment of patients with musculo-skeletal disorders.</p> <ul style="list-style-type: none"> - Osteomalacia, osteoporosis, osteomyelitis, bursitis. - Fractures, dislocation & trauma. - Prolapsed disc. - Prosthesis & rehabilitation. - Transplant & replacement surgeries. 	<p>1</p> <p>1</p> <p>2</p> <p>2</p>	<p>80-81</p> <p>82-83</p> <p>84-86</p> <p>88-90</p>
	<p>Disorders of menstruation & inf. of genital tract. *Benign & malignant tumours of genital tract & RVF & VVF. * Climacteric changes & associated problems.</p>	<p>1</p> <p>1</p> <p>1</p>	<p>91-92</p> <p>93-94</p> <p>95-96</p>
	<p>Types of neoplasms & related pathophysiology, diagnostic procedures, modalities of treatment & nurses' role.</p> <ul style="list-style-type: none"> - Special therapies : chemotherapy & radiotherapy & nsg. care. - Preventive measures, other therapies. 	<p>2</p> <p>1</p> <p>2</p>	<p>97-99</p> <p>100-101</p> <p>102-104</p>
	<p>Pathophysiology, assessment & nursing management of patients with burns.</p> <ul style="list-style-type: none"> - Nursing management of patients with reconstructive surgeries. - 	<p>1</p> <p>1</p> <p>1</p>	<p>105-106</p> <p>107-108</p> <p>109-110</p>

	Nursing management of patients with common communicable diseases & STDs.	2	111-112
	- Nursing management of patients with immunological disorders	2	113-115
	including HIV Assessment & nursing management of patients with eye disorders.	1	116-117
	(eye injuries, cataract, inf., blindness)		
	- Assessment & nursing management of patients with ear disorders (deafness).	2	118-120
	- Assessment & nursing management of patients with nose & throat disorders. (DNS, tonsillitis).	2	121-122
	- Assessment & nursing management of patients with skin disorders.	1	123-124
	(fungal inf., herpes, psoriasis etc)		
	- Review of anatomy & physiology of blood & blood products.	1	125-127
	- Pathophysiology, diagnostic procedures & management of blood disorders.	1	128-129
	- anaemia, leukaemia.		
	- bleeding disorders, haemophilia, purpura etc.		
	- blood transfusion, safety checks, procedure & requirements, management of adverse transfusion reaction, records for blood transfusion.	1	130-131
	- management & counseling of blood donors, phlebotomy procedure, & post-donation management.	2	132-135
	- blood bank functioning & hospital transfusion committee. Biosafety & waste management in relation to blood transfusion.	2	136-138
	- Cardiac emergencies. (included in unit iv)		
	- Trauma.		
	- poisoning.	2	139-141
	- crisis mgt :thyroid, hypertensive, & adrenal crisis included in unit/AIDs.		

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<p>UNIT 2</p>	<p>Review of relevant anatomy & physiology of cardio-vascular system & assessment of clients with cardio-vascular disorders.</p> <ul style="list-style-type: none"> - Pathophysiology, diagnostic procedures & management of- - ischaemic heart disease. - cardiac arrhythmias. - congestive cardiac failure. - rheumatic & other valvular heart diseases. - endocarditis, cardiomyopathies, congenital heart diseases, hypertension, heart block. - cardiac emergencies: cardiac arrest, acute pulmonary oedema, cardiac tamponade, cardiogenic shock, aneurisms & peripherovascular disorders, recent advancement in cardiology. <p>Review of anatomy & physiology of respiratory system & assessment of clients with respiratory disorders.</p> <ul style="list-style-type: none"> - Pathophysiology, diagnostic procedures and management of upper and lower respiratory track infection - Bronchitis, bronchiectasis & nursing care. - Asthama, emphysema, empyema, atelectasis, COPD and nursing care. <p>Review of anatomy & physiology of the genito-urinary system & assessment of clients with genito-urinary problems.</p> <ul style="list-style-type: none"> - Pathophysiology & management of- - congenital disorders, urinary infections. - nephritis, renal calculi. - acute renal failure, chronic renal failure, end stage renal disease. - special procedures : dialysis, renal transplant. - benign prostatic hypertrophy. - drugs used in the management of these patients. 		
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	<p>Review of anatomy & physiology of gastro-intestinal system & accessory organs & assessment of clients with gastro-intestinal tract disorders.</p> <ul style="list-style-type: none"> - Pathophysiology, diagnostic procedures & management of - - gastro-intestinal bleeding. - peptic ulcer. - acute abdomen. - infections, colitis, diarrhoea, dysentery & mal-absorption syndrome. - cholecystitis. - hepatitis, hepatic coma & cirrhosis of liver, portal hypertension. - pancreatitis. - tumours, hernias, fistulas, fissures, haemorrhoids. - drugs used in the management of these patients. <p>Review of anatomy & physiology & assessment of clients with endocrine disorders.</p> <ul style="list-style-type: none"> - Pathophysiology, diagnostic procedures & management of - - thyroid disorders. - diabetes mellitus, diabetes insipidus. - adrenal tumours, pituitary disorders. - drugs used, diagnostic procedures & nursing management of patient with above problems. <p>Review of anatomy, physiology & assessment of patients with musculo-skeletal disorders.</p> <ul style="list-style-type: none"> - Osteomalacia, osteoporosis, osteomyelitis, bursitis. - Fractures, dislocation & trauma. - Prolapsed disc. - Prosthesis & rehabilitation. - Transplant & replacement surgeries. 		
UNIT 3	Disorders of menstruation & inf. of genital tract. *Benign & malignant tumours of genital tract & RVF & VVF. * Climacteric		

	<p>changes & associated problems. Types of neoplasms & related pathophysiology, diagnostic procedures, modalities of treatment & nurses' role. - Special therapies : chemotherapy & radiotherapy & nsg. care. - Preventive measures, other therapies. Pathophysiology, assessment & nursing management of patients with burns. - Nursing management of patients with reconstructive surgeries.</p>		
UNIT 4	<ul style="list-style-type: none"> • Nursing management of patients with common communicable diseases & STDs. - Nursing management of patients with immunological disorders including HIV/AIDs. <p>Assessment & nursing management of patients with eye disorders. (eye injuries, cataract, inf., blindness) - Assessment & nursing management of patients with ear disorders (deafness). - Assessment & nursing management of patients with nose & throat disorders. (DNS, tonsillitis). - Assessment & nursing management of patients with skin disorders. (fungal inf., herpes, psoriasis etc)</p>		
UNIT 5	<p>Review of anatomy & physiology of blood & blood products. - Pathophysiology, diagnostic procedures & management of blood disorders. - anaemia, leukaemia. - bleeding disorders, haemophilia, purpura etc. - blood transfusion, safety checks, procedure & requirements, management of adverse transfusion reaction, records for blood</p>		

	<p>transfusion.</p> <ul style="list-style-type: none">- management & counseling of blood donors, phlebotomy procedure, & post-donation management.- blood bank functioning & hospital transfusion committee. Biosafety & waste management in relation to blood transfusion. <p>UNIT XVI NURSING IN EMERGENCIES. 3 hrs.</p> <ul style="list-style-type: none">- Cardiac emergencies. (included in unit iv)- Trauma.- poisoning.- crisis mgt :thyroid, hypertensive, & adrenal crisis included in unit 1,2,3		
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**DR D.Y. PATIL DEEMED UNIVERSITY
COLLEGE OF NURSING
PIMPRI, PUNE-18**

Subject: GENETICS

Second Year B. Sc. Nursing

**Faculty: Department of Genetics, Maharashtra University of Health Sciences,
Aundh**

UNIT	TOPIC	No of lectures	Lecture Serial No
I Introduction	<ul style="list-style-type: none"> • Practical application of genetics in Nursing • Impact of genetic condition on families • Review of cellular division mitosis and meiosis 	1	1
	<ul style="list-style-type: none"> • Characteristics and structure of genes • Chromosomes – sex determination 	1	2
	<ul style="list-style-type: none"> • Chromosomal aberrations pattern of inheritance <ul style="list-style-type: none"> ➤ Mendalian theory of inheritance ➤ Multiple allots and blood groups ➤ Sex linked inheritance ➤ Mechanism of inheritance ➤ Errors in transmission (Mutation) 	1	3
II Maternal, prenatal and genetic influences on development of defects and diseases	<ul style="list-style-type: none"> ➤ Conditions affecting the mother: <ul style="list-style-type: none"> ➤ genetic and infections ➤ Consanguinity atopy ➤ Prenatal nutrition and food allergies ➤ Maternal age ➤ Maternal drug therapy 	1	4
	<ul style="list-style-type: none"> ➤ Prenatal testing and diagnosis ➤ Effect of radiation, drugs and chemicals ➤ Infertility ➤ Spontaneous abortion 	1	5
	<ul style="list-style-type: none"> ➤ Neural tube defects and the role of folic acid in lowering the risks ➤ Down syndrome (Trisomy 21) 	1	6
III Genetic tests in neonates and children	<ul style="list-style-type: none"> • Screening for <ul style="list-style-type: none"> ➤ Karyotype analysis ➤ Congenital abnormalities ➤ Developmental delay 	2	7-8

	➤ Dysmorphism		
IV Genetic conditions of adolescents and adults	<ul style="list-style-type: none"> • Cancer genetics – Familial cancer • Inborn errors of metabolism • Blood group alleles and hematological disorders • Genetic haemochromatosis • Huntington’s disease • Mental illness 	2	9-10
V Services related to Genetics	<ul style="list-style-type: none"> • Genetic testing • Human genome project • Gene therapy • The Eugenics movement • Genetic counseling • Legal and ethical issues • Role of nurse 	1 1 1 1 1	11 12 13 14 15

Bibliography – (Genetics)

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2. S D Gangane: Human Genetics II Edition, Saurabh Printers, Noida.
3. Jorde Carey Bamshad White: Medical Genetics, Mosby 2003.
4. J A Fraser Roberts: An introduction to medical genetics, V Edition, Oxford University, 1970.
5. Elisabeth F Lanzl: Medical Genetics, the University of Chicago, USA 1961.
6. J Ben Hill, Helen D Hill: Genetics and Human heredity, Mcgeaw hill Book Company, Newyork 1955.
7. Edmund W Sinnott: Principles of Genetics V Edition Mcgeaw hill book company, Newyork 1950.
8. P C Winter, G I Hickey: Instant notes in genetics, Viva books Pvt Ltd, New Delhi 2000.
9. Ching Chun L: Human Genetics- Principles and methods, Mcgeaw hill Book Company, Newyork 1961.
10. Mary B Mahowald , et al : Genetics in the clinic, Mosby Philadelphia. 2001.
11. Robert F Muller, Ian D Young: Emery’s elements of medical genetics, Churchill Livingstone, Philadelphia, 2001.
12. Moore, Keith L: Developing Human Clinically oriented Embryology, II Edition, W B Saunders Company, Philadelphia 1977
15. Pansky Ban, Review of Medical Embryology. Macmillian Publishing Company, New York 1982.
- 16.. Smell, Richard S: Clinical Embryology for medical students, Little Brown and Company, Boston, 1972.
- 17 .Langman , Jan :Medical Embryology, William & Wilkins, Baltimore 1973.

EVALUATION SCHEME

Internal Assessment: Maximum Marks 25

Theory: 15 Marks

	Pharmacology	Pathology and genetics	Total Marks	Average Out of
Mid-term	30	20	50	-
Pre-final	40	35	75	-
Total			125	15

(125 Marks to be converted in to 15 Marks for Internal Assessment (Theory))

Assignments: Two

- a) Pharmacology – Drug Study / Drug Presentation 25 Marks
- b) Pathology - Preparation of Patient for diagnostic Test 25 Marks

Total: 50 Marks

(50 Marks to be converted in to 10 Marks for Internal Assessment (Assignments))

External assessment:

University Examination (Theory) 75 Marks