

2.5.3

Medicine - Reforms in Evaluation

2.5.3

Reforms in Evaluation



Department of Medicine

OSCE –Objective Structured Clinical Examination

The Department of General Medicine implements the OSCE assessment format, in which the candidates (Students) rotate around a circuit of stations, at each of which specific tasks are to be performed, usually involving clinical skills.

All the candidates are presented with the same test and specific skill modalities are tested at each station .viz.

- History taking
- Clinical examination
- Procedure demonstration
- Diagnosis
- Patient management

OSCE is a structured and objective format of assessment, reducing examiner variability and bias and minimizing case variability presented to the students, apart from allocating specific weightage for testing different competencies.

OSCE BLUE-PRINT

Stations	History taking	Differential Diagnosis	General Examination	Procedure	Systemic Examination	Other system	Diagnosis	Management	Pt. Counseling
CVS									
RS									
PA									
CNS									
Marks	10	5	5	5	10	5	5	2	3

Total Marks - 50

Total Time - 60 Minutes



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OSCE STATIONS

We have 4 OSCE stations pertaining to 4 systems in General Medicine-CVS, RS, PA, CNS.

Each Station has

- A specific task for the student
- Written candidate instructions
- Time allotted
- Marks allotted

The department also conducts prior training of the examiners. At each station the examiner has a copy of the students instructions.

Patient selection and training

- Real patients to examine clinical skills
- Select simulation / standardized patients (sp)
- Simulated pts also can simulate number of clinical signs (sudden visual loss ,localized abdominal pain

Simulated patients instructions :

- Give as much detail as possible so they can be consistent. Try to leave as little as possible for them to ad lib
- Give enough information to enable them to answer questions consistently
- Be specific about affect in each role
- Specify patient demographics i.e. gender, age ,ethnicity, social class etc.

Practical Arrangements


Instructions to candidates-

- You should able to show communication skills
- You should be able to counsel a patient regarding his disease and treatment
- You should be able to break bad news
- You should be able to perform intubation on mannequin
- You should be able to assemble commonly used equipments like IV set, intracath etc.

Instructions to Examiners-

- You should examine student according to checklist.
- You should check time management of each student at each station.
- You should check communication skills, counseling and management from students and give marks accordingly.




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OSCE Station Writing

1. CNS Case

Station 1- History Taking

65 year of male admitted with complaints of right upper and lower limb weakness since 4 days and deviation of mouth since 4 days.

Student instructions: checklist

S.N.	Student Instructions	Marks
1	You are expected to take focused history ,detailed history of present illness, past history ,family history ,history of treatment and history of etiology.	4
2	You will be tested on your ability to take a focused history	3
3	Your interpersonal and communication skill	3

Time Allotted: 15 Minutes

Marks Allotted: 10 Marks

Station 2: Differential Diagnosis

S.N.	Student Instructions	Marks
1	You should able to draw at least 2-3 differential diagnosis with given complaints and in given time.	5

Time Allotted – 5 Minutes

Marks Allotted – 5 Marks

Station 3: General Examination

S.N.	Student Instructions	Marks
1	You should be able to find out Nutritional status of patient	2
2	You should able to check pallor, icterus, lymphadenopathy and demonstrate methods of palpations and inspection of these findings, common sites we look for.	3

Time Allotted – 5 Minutes

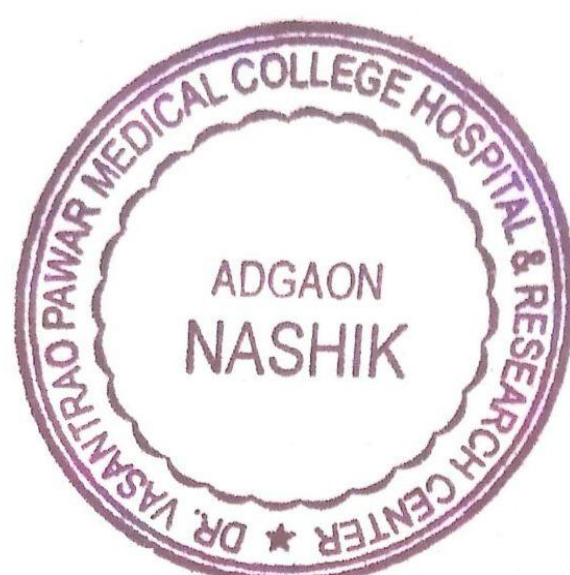
Marks Allotted – 5 Marks


Station 4: Procedure Demonstration

S.N.	Student Instruction	Marks
1	You should able to measure pulse and blood pressure of the patient	2
2	You should know the normal readings of pulse and blood pressure and normal character.	2
3	You should be able to palpate all peripheral pulsations and know their sites of palpations	1

Time Allotted – 5 Minutes

Marks Allotted – 5 Marks




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Station 5 : Systemic Examination Related To The Case

S.N.	Student Instruction	Marks
1	You should be able to examine motor ,sensory system	5
2	You should be able to calculate Glasgow coma scale	5

Time Allotted – 10 Minutes

Marks Allotted – 10 Marks

Station 6 : Relevant Other Systemic Examination

S.N.	Student Instructions	Marks
1	Respiratory system – inspection, palpation, percussion and auscultation	2
2	Per abdomen – inspection ,palpation ,percussion	1
3	CNS – sensory, motor, higher functions , able to calculate GCS score in any patient.	2

Time Allotted – 5 Minutes

Marks Allotted – 5 Marks

Station 7: Diagnosis

S.N.	Student Instructions	Marks
1	You should be able to conclude the probable diagnosis of the patient with associated risk factors	5

Time Allotted – 5 Minutes

Marks Allotted – 5 Marks

Station 8: Management

S.N.	Student Instructions	Marks
1	You should able to differentiate between CT scan and MRI films	1
2	You should know the management of iscahemic stroke and haemorrhagic stroke	1

Time Allotted – 5 Minutes

Marks Allotted – 2 Marks

Station 9 : Patient Counseling

S.N.	Student Instruction	Marks
1	You should be able to communicate with patient and relatives regarding seriousness of condition in their mother tongue	3

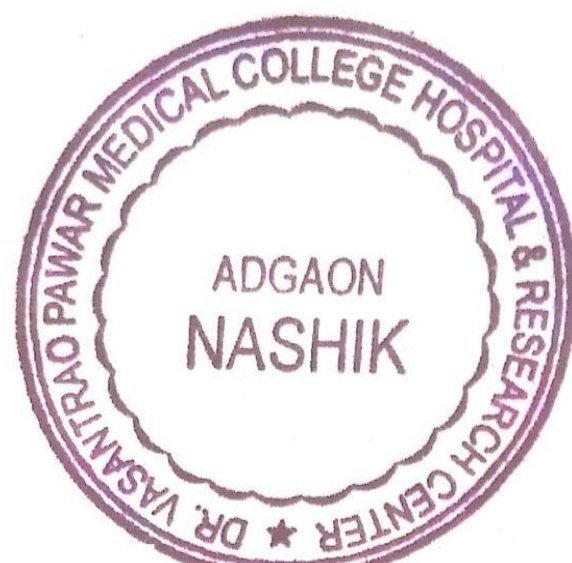
Time Allotted – 5 Minutes

Marks Allotted – 3 Marks

Total

Time -60 Minutes

Marks – 50 Marks




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OSCE Station writing
2. CVS Case

Station 1-History Taking

Patient admitted with Breathlessness on exertion and palpitations.

Student instructions: Checklist

S.N.	Student Instructions	Marks
1	You are expected to take focused history ,detail history of present illness, past history ,family history ,history of treatment and history of etiology.	4
2	You will be tested on your ability to take a focused history	3
3	Your interpersonal and communication skill	3

Time Allotted: 15 Minutes

Marks Allotted: 10 Marks

Station 2 : Differential Diagnosis

Based on your history what are your differential diagnosis

S.N.	Student Instructions	Marks
1	You should able to draw at least 2-3 differential diagnosis with given complaints and in given time.	5

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks

Station 3 : General Examination

S.N.	Student Instructions	Marks
1	You should be able to find out Nutritional status of patient	2
2	You should able to check pallor, icterus, lymphadenopathy and demonstrate methods of palpations and inspection of these findings ,common sites we look for .	3

Time Allotted: 5 Minutes

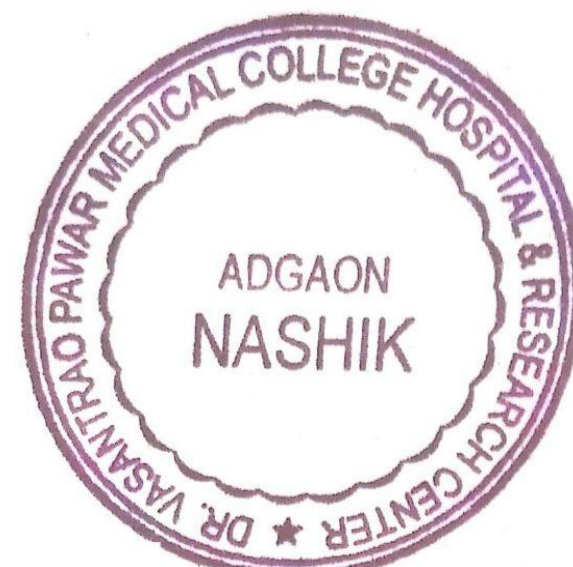
Marks Allotted: 5 Marks


Station 4 : Procedure Demonstration

S.N.	Student Instructions	Marks
1	You should able to measure pulse and blood pressure of the patient	2
2	You should know the normal readings of pulse and blood pressure and normal character.	2
3	You should able to palpate all peripheral pulsations and their sites of palpations	1

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks




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Station 5 : Systemic Examination Related To The Case

S.N.	Student Instructions	Marks
1	You should able to examine cardio-vascular system(inspection, palpation, percussion, auscultation)	5
2	You should able to locate apex beat and abnormal sounds on auscultation	5

Time Allotted: 10 Minutes

Marks Allotted: 10 Marks

Station 6 : Relevant Other Systemic Examination

S.N.	Student Instructions	Marks
1	Respiratory system – inspection, palpation, percussion and auscultation	2
2	Per abdomen – inspection ,palpation ,percussion	1
3	CNS – sensory, motor, higher functions ,you able to calculate GCS score in any patient.	2

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks

Station 7: Diagnosis

S.N.	Student Instructions	Marks
1	You should able to conclude the probable diagnosis of the patient with associated risk factors	5

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks

Station 8 : Management

S.N.	Student Instructions	Marks
1	You should be able to know what are different anticoagulation therapy and diuretics	1
2	You should know the basics of ECG	1

Time Allotted: 5 Minutes

Marks Allotted: 2 Marks

Station 9 : Patient Counseling

S.N.	Student Instructions	Marks
1	You should be able to communicate with patient and relatives regarding seriousness of condition in there mother tongue.	3

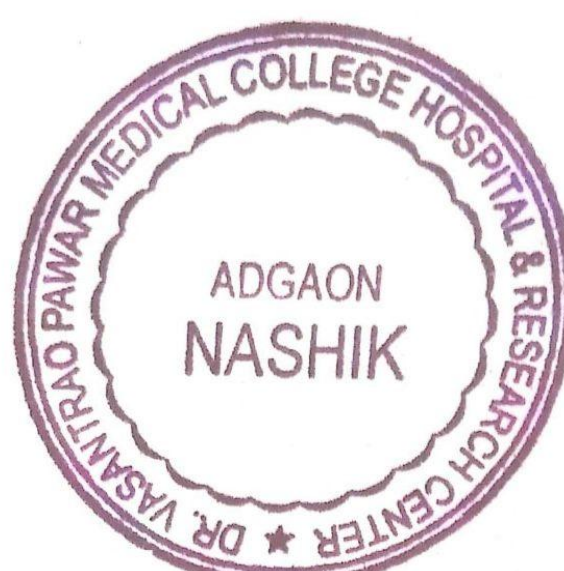
Time Allotted: 5 Minutes


Marks Allotted: 3 Marks

Total

Time - 60 Minutes

Marks - 50 Marks




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**OSCE Station writing
3. RS Case**

Station 1-History Taking

Patient admitted with complaints of Dyspnea and cough with expectoration

Student instructions: Checklist

S.N.	Student Instructions	Marks
1	You are expected to take focused history ,detail history of present illness, past history , family history ,history of treatment and history of etiology.	4
2	You will be tested on your ability to take a focused history	3
3	Your interpersonal and communication skill	3

Time Allotted: 15 Minutes

Marks Allotted: 10 Marks

Station 2 : Differential Diagnosis

Based on your history what are your differential diagnosis

S.N.	Student Instructions	Marks
1	You should able to draw at least 2-3 differential diagnosis with given complaints and in given	5

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks

Station 3 : General Examination

S.N.	Student Instructions	Marks
1	You should be able to find out Nutritional status of patient	2
2	You should able to check pallor, icterus, lymphadenopathy and demonstrate methods of palpations and inspection of these findings, common sites we look for.	3

Time Allotted: 5 Minutes

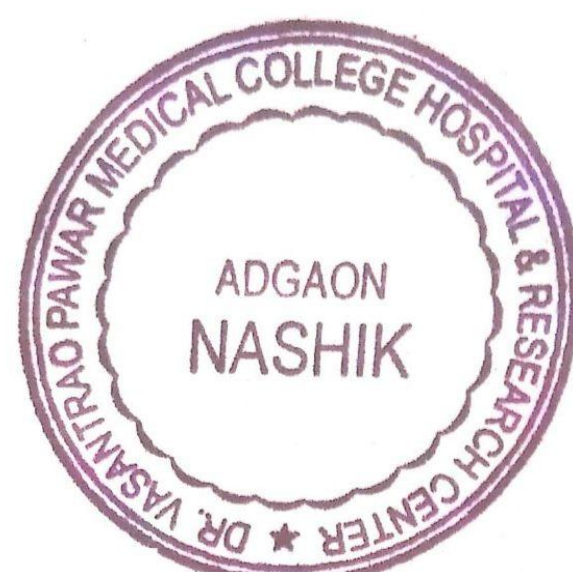
Marks Allotted: 5 Marks


Station 4: Procedure Demonstration

S.N.	Student Instructions	Marks
1	You should able to measure pulse and blood pressure of the patient	2
2	You should know the normal readings of pulse and blood pressure and normal character.	2
3	You should able to palpate all peripheral pulsations and their sites of palpations	1

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks




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Station 5 : Systemic Examination Related To The Case

S.N.	Student Instructions	Marks
1	You should able to do inspection, palpation, percussion and auscultation of RS system	5
2	You should able to differentiate between bronchial and vesicular signs	5

Time Allotted: 10 Minutes

Marks Allotted: 10 Marks

Station 6 : Relevant Other Systemic Examination

S.N.	Student Instructions	Marks
1	CVS – inspection ,palpation, percussion and auscultation	2
2	Per abdomen – inspection ,palpation ,percussion	1
3	CNS – sensory, motor, higher functions, you able to calculate GCS score in any patient.	2

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks

Station 7: Diagnosis

S.N.	Student Instructions	Marks
1	You should able to conclude the probable diagnosis of the patient with associated risk factors	5

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks

Station 8 : Management

S.N.	Student Instructions	Marks
1	You should know the management of acute attacks of bronchial asthma with intravenous theophylline/ aminophylline therapy	1
2	You should know about antibiotics commonly used in pneumonia	1

Time Allotted: 5 Minutes

Marks Allotted: 2 Marks

Station 9 : Patient Counseling

S.N.	Student Instructions	Marks
1	You should able to communicate with patient and relatives regarding seriousness of condition in their mother tongue.	3

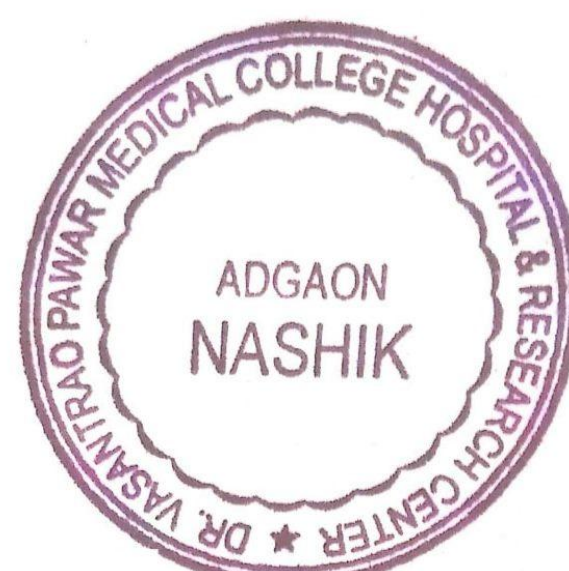
Time Allotted: 5 Minutes


Marks Allotted: 3 Marks

Total

Time - 60 Minutes

Marks - 50 Marks




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OSCE Station writing

4. Per Abdomen case

Station 1-History Taking

45 year of male admitted with complaints of abdominal distension since 20 days and b/l lower limb swelling since 10 days

Student instructions: Checklist

S.N.	Student Instructions	Marks
1	You are expected to take focused history ,detail history of present illness, past history ,family history ,history of treatment and history of etiology.	4
2	You will be tested on your ability to take a focused history	3
3	Your interpersonal and communication skill	3

Time Allotted: 15 Minutes

Marks Allotted: 10 Marks

Station 2 : Differential Diagnosis

Based on your history what are your differential diagnosis

S.N.	Student Instructions	Marks
1	You should able to draw at least 2-3 differential diagnosis with given complaints and in given time.	5

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks

Station 3 : General Examination

S.N.	Student Instructions	Marks
1	You should be able to find out nutritional status of patient	2
2	You should able to check pallor, icterus, lymphadenopathy and demonstrate methods of palpations and inspection of these findings ,common sites we look for .	3

Time Allotted: 5 Minutes

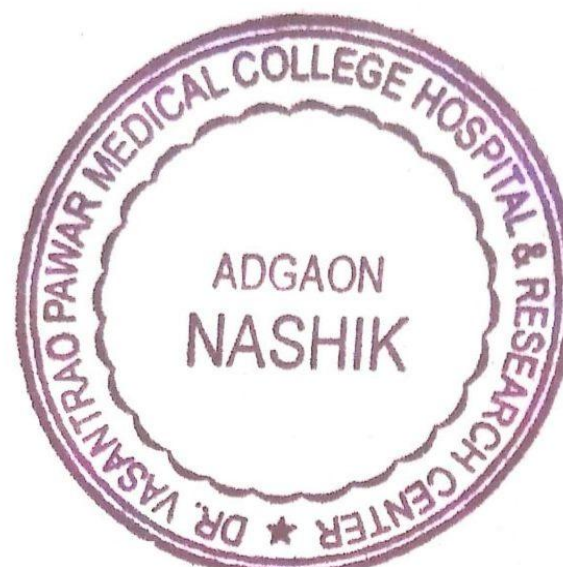
Marks Allotted: 5 Marks

Station 4: Procedure Demonstration

S.N.	Student Instructions	Marks
1	you should able to measure pulse and blood pressure of the patient	2
2	you should know the normal readings of pulse and blood pressure and normal character .	2
3	you should able to palpate all peripheral pulsations and their sites of palpations	1

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks



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Station 5 : Systemic Examination Related To The Case

P/A examination-

S.N.	Student Instructions	Marks
1	You should able to do inspection, palpation, percussion and auscultation of P/A system.	4
2	You should able to find out volume of ascites clinically	3
3	You should know methods of ascitic tapping.	3

Time Allotted: 10 Minutes

Marks Allotted: 10 Marks

Station 6 : Relevant Other Systemic Examination

You able to examine in detail of

S.N.	Student Instructions	Marks
1	CVS – inspection, palpation, percussion and auscultation	2
2	R/S – inspection ,palpation ,percussion	2
3	CNS – sensory, motor, higher functions , you able to calculate GCS score in any patient.	1

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks

Station 7: Diagnosis

S.N.	Student Instructions	Marks
1	You should able to conclude the probable diagnosis of the patient with associated risk factors	5

Time Allotted: 5 Minutes

Marks Allotted: 5 Marks

Station 8 : Management

S.N.	Student Instructions	Marks
1	You should able to draw signs of portal hypertension clinically e.g. able to palpate spleen ,to perform fluid thrill	1
2	You should know the management of hepatic encephalopathy	1

Time Allotted: 5 Minutes

Marks Allotted: 2 Marks

Station 9 : Patient Counseling

S.N.	Student Instructions	Marks
1	You should able to communicate with patient and relatives regarding seriousness of condition in there mother tongue.	3

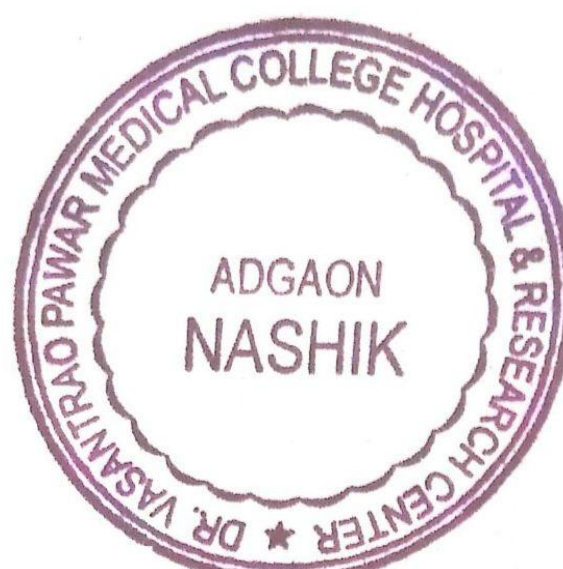
Time Allotted: 5 Minutes

Marks Allotted: 3 Marks

Total

Time - 60 Minutes

Marks - 50 Marks



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2.5.3

Reforms in Evaluation

Self Assessment - UG




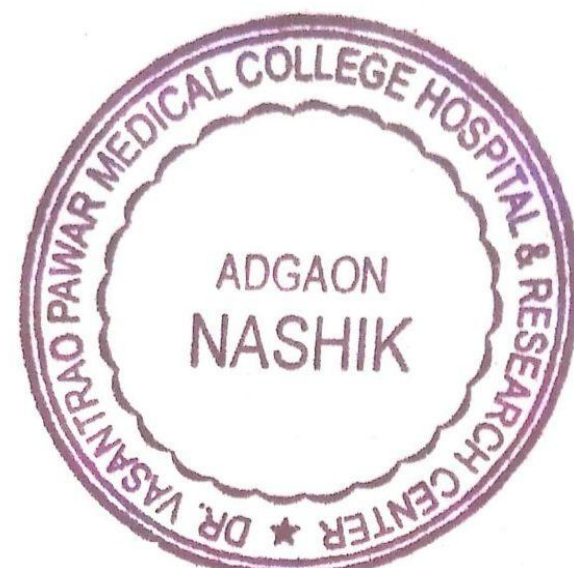
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Demonstration of the CNS Reflexes – UG
(Central Nervous System)

Sr. No.	Checklist	Yes/ No
1	Introduction of oneself to the patient	
2	Explain the procedure	
3	Take oral consent for examination	
4	Examination by standing on the right side of the patient	
5	Able to hold the hammer in proper manner	
6	Able to demonstrate superficial and deep tendon reflexes with their root values	
7	Able to perform jendarsacks manoeuvre (tight holding of hands or clinching of teeth) while performing reflexes.	
8	Able to tell grades of reflexes, and able to elicit whether reflexes are normal or absent or diminished or brisk or exaggerated or clonus (ankle / clonus)	
9	Able to perform Babinskis sign.	


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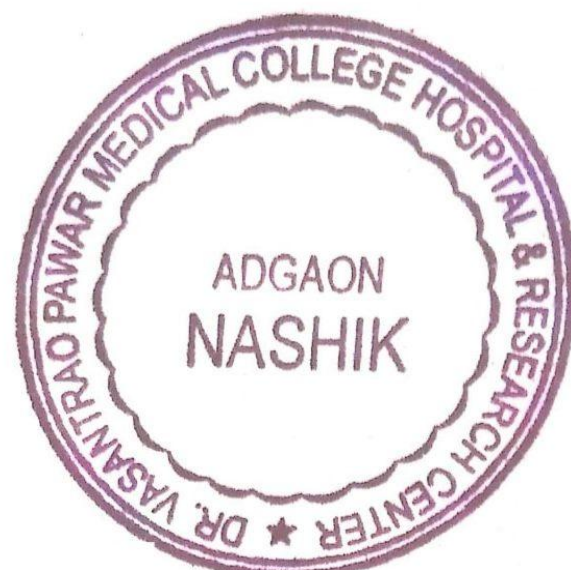
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Central Line Insertion - UG

Sr. No.	Checklist	Yes/ No
1	Introduce oneself to patient	
2	Explain the procedure to the patient	
3	Positioning of the patient in the supine position	
4	Local Anaesthesia at the insertion site	
5	Recognizing the carotid triangle and carotid artery	
6	Insertion of central line	
7	Insertion of guide wire	
8	Check venous blood	
9	Remove guide wire and fix catheter	

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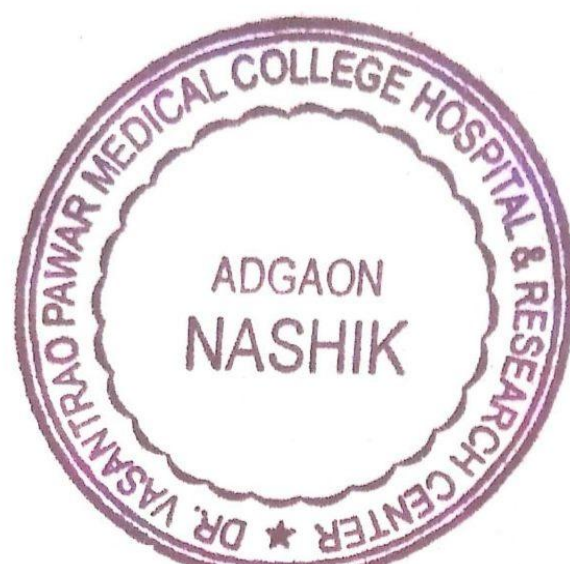
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**Palpation of Liver and Spleen - UG
(Gastro-Intestinal System)**

Sr. No.	Checklist	Yes/ No
1	Introduce oneself to patient	
2	Explain the procedure to the patient	
3	Positioning of the patient in the supine position examining from right side of the patient	
4	Take proper oral consent for examination	
5	Inspect the patient's status whether he or she is comfortable at rest or obviously short of breath.	
6	Palpation of abdomen first in deep inspiration and expiration	
7	Palpation of liver and methods of palpation	
8	Palpation of spleen and methods of palpation	
9	Able to outline the borders of liver and spleen on palpation	
10	Able to differentiate between mass or fluid inside abdomen on palpation	

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**Lung Percussion - UG
(Respiratory System)**

Sr. No.	Checklist	Yes/ No
1	Introduction of oneself to the patient	
2	Explain the procedure	
3	Take oral consent for examination	
4	Examination by standing on the front and back side of the patient ,seating position given to the patient	
5	Percussion of the lung fields, alternating from top to bottom and comparing both sides, areas of percussion i.e. supraclavicular, infraclavicular, inframmary, supramammary, axillary, suprscapular, infrascapular, interscapular.	
6	Whether able to differentiate between resonant, hyper resonant and dull note.	
7	Tympanic note on chest percussion.	


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Reforms in Evaluation

Self Assessment - PG



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Ascitic Tapping - PG

Sr. No.	Checklist	Yes/ No
1	Introduce oneself to patient	
2	Explain the procedure to the patient and check labs for bleeding diathesis	
3	Positioning of the patient in the supine position	
4	Palpate the ASIS and pubic symphysis	
5	Mark 2-3 cm above mid inguinal point	
6	Insert 18 gauge needle in dependent part	
7	Remove Ascitic fluid as required	
8	Remove needle	
9	Put tight bandage at puncture site	

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Central Line Insertion - PG

Sr. No.	Checklist	Yes/ No
1	Introduce oneself to patient	
2	Explain the procedure to the patient	
3	Positioning of the patient in the supine position	
4	Local Anaesthesia at the insertion site	
5	Recognizing the carotid triangle and carotid artery	
6	Insertion of central line	
7	Insertion of guide wire	
8	Check venous blood	
9	Remove guide wire and fix catheter	

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Intubation - PG

Sr. No.	Checklist	Yes/ No
1	Check all parameters of patients	
2	Check required equipments	
3	Appropriate sedation if required	
4	Insert laryngoscope	
5	Check the vocal chords in laryngoscope and insert ET tube with stilette	
6	Check flow of air (airblast)	
7	Remove stilette	
8	Inflate the cuff	
9	Fix the tube	

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Lumbar Puncture - PG

Sr. No.	Checklist	Yes/ No
1	Introduce oneself to patient	
2	Explain the procedure to the patient	
3	Positioning of the patient in the left lateral, neck bend, back hunched	
4	Palpate L3-L4 intervertebral site	
5	Insert spinal needle	
6	Feel give during insertion	
7	Remove canula and collect CSF	
8	Remove needle	
9	Put pressure on insertion site	

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2.5.3

**Reforms in
Evaluation**

**Syllabus Blue Print
- UG**



Department of Medicine

UG - Syllabus blue print for 6th semester

Step1: list of Topics for 6th semester

Sr. No.	Topics
1	Cardio-vascular system
2	Infectious diseases
3	Gastroenterology and HPB SYSTEM
4	Respiratory system
5	Tuberculosis
6	Genetics & Miscellaneous

Step 2 : Skeleton of The Assessment Tool

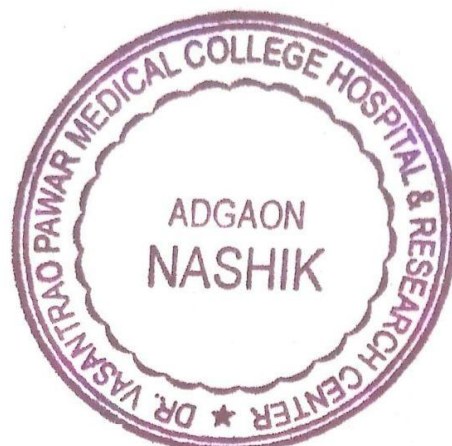
Question pattern/type	No. of items	Marks	Marks including options
MCQS	30 (0.5 marks each)	15	15
LAQS	3 (8 marks each)	24	24
SAQS	7 out of 11 (3 marks each)	21	33
TOTAL	44	60	72

Step 3 : Decide The Weightage of Each Topic

- For clinical subjects :
- Formula for weightage (W)
- $W = I \times F$
- W = Weightage
- I= Impact or perceived importance
- F = Frequency of occurrence of disease in the community

Step 4 : Calculation Of Weightage of Each Topic

S. N.	Topic	Impact	Frequency	$W = I \times f$
1	Respiratory system	3	2	6
2	Infectious diseases	2	3	6
3	Cardiovascular system	3	3	9
4	GIT & Liver	3	3	9
6	Toxicology	2	1	2
7	Genetics and miscellaneous	1	3	3



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Step 4: Calculate the Marks Allotted For Each Topic

S. N.	Topic	Marks allotted	W= I x f
1	Respiratory system	9	6
2	Infectious diseases	18	6
3	Cardiovascular system	18	9
4	GIT & Liver	9	9
6	Toxicology	9	2
7	Genetics and miscellaneous	9	3

Step 5 : Decide The Types Of Question As Per Allotted Marks

S. N.	Topic	Marks allotted	W= I x f	MCQ	SAQ	LAQ
1	Respiratory system	9	6	6	2	
2	Infectious diseases	18	6	8	2	1
3	Cardiovascular system	18	9	8	2	1
4	GIT & Liver	9	9	6	2	
6	Toxicology	9	2	2		1
7	Genetics and miscellaneous	9	3		3	
		72	35	30	11	3

Step 6 : Decide The Level Of Assessment

S. N.	Topic	Marks allotted	W= I x f	MCQ	SAQ	LAQ
1	Respiratory system	9	6	6(C+A)	2	
2	Infectious diseases	18	6	8(R+C)	2	1
3	Cardiovascular system	18	9	8(R+C+A)	2	1(R+C+A)
4	GIT & Liver	9	9	6	2	
6	Toxicology	9	2	2(R)		1
7	Genetics and miscellaneous	9	3		3(R+C)	
		72	35	30	11	3

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UG - Syllabus Blue Print – UG for 8th Semester

Step: 1 Topics / content areas
General Medicine – Paper 1: list of topics

Sr. No.	Topics
1	Endocrinology
2	Infectious diseases
3	Cardiovascular system
4	Hematology
5	GIT & Hepatobiliary system
6	Toxicology
7	Oncology
8	Genetics

General Medicine – Paper 2: List of Topics

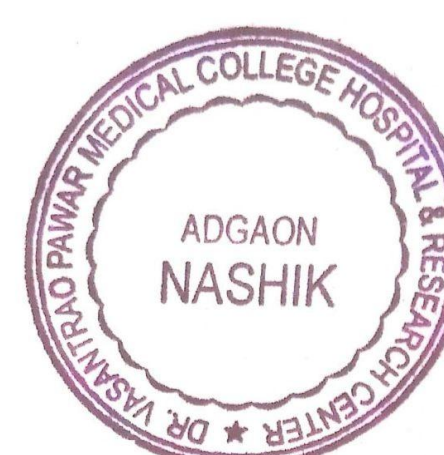
Sr. No.	Topics
1	Nutrition & Environment
2	Respiratory system
3	Rheumatology
4	Renal system
5	Neurology
6	Psychiatry
7	Geriatrics
8	Dermatology

Step 2: Skeleton of the Assessment Tool

Question pattern/type	No. of items	Marks	Marks Including Options
MCQS	30 (0.5 marks each)	15	15
LAQS	3 (8 marks each)	24	24
SAQS	7 out of 11 (3 marks each)	21	33
TOTAL	44	60	72

Step 3: Decide the Weightage of Each Topic

- For clinical subjects :
- Formula for weightage (W)
- $W = I \times F$
- W = Weightage
- I= Impact or perceived importance
- F = Frequency of occurrence of disease in the community



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Step 4: Calculation of Weightage of Each Topic
General Medicine – Paper 1

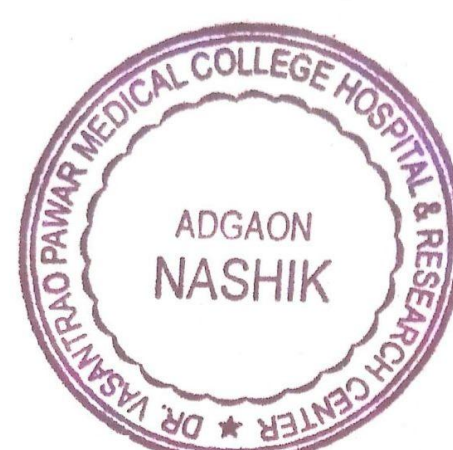
S. N.	Topic	Impact	Frequency	W = I x f
1	Endocrinology	2	2	4
2	Infectious diseases	2	3	6
3	Cardiovascular system	3	3	9
4	Haematology	2	2	4
5	GIT & Liver	3	3	9
6	Toxicology	1	1	1
7	Oncology	1	1	1
8	Genetics	1	1	1

General Medicine – Paper 2

S. N.	Topic	Impact	Frequency	W = I x f
1	Nutrition & environment	2	2	4
2	Respiratory system	3	3	9
3	Rheumatology	1	1	1
4	Renal system	2	2	4
5	Neurology	3	3	9
6	Psychiatry	1	1	1
7	Geriatrics	1	1	1
8	Dermatology	1	1	1

Step 4: Calculate the Marks Allotted for Each Topic
Paper 1: General Medicine

S. N.	Topic	W= I x F	Marks allotted
1	Endocrinology	4	9
2	Infectious diseases	6	18
3	Cardiovascular system	9	18
4	Haematology	4	8
5	GIT & Hepatobiliary system	9	13
6	Toxicology	1	2
7	Oncology	1	2
8	Genetics	1	2
	Total	35	72



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**Step 4: Calculate the Marks Allotted for Each Topic
Paper 2: General Medicine**

S. N.	Topic	W= I x F	Marks allotted
1	Nutrition & environment	4	9
2	Respiratory system	9	21
3	Rheumatology	1	3
4	Renal system	4	9
5	Neurology	9	21
6	Psychiatry	1	3
7	Geriatrics	1	3
8	Dermatology	1	3
	Total	30	72

**Step 5: Decide the Types of Question as Per Allotted Marks
General Medicine: Paper 1**

S. N.	Topic	W= I x F	Marks Allowed	MCQs	SAQs	LAQs
1	Endocrinology	4	9	6	2	
2	Infectious diseases	6	18	8	2	1
3	Cardiovascular system	9	18	8	2	1
4	Haematology	4	8	4	2	
5	GIT & Hepatobiliary system	9	13	4	1	1
6	Toxicology	1	2		1	
7	Oncology	1	2			
8	Genetics	1	2		1	
		35	72	30	11	3

**Step 5: Decide the Types of Question as Per Allotted Marks
General Medicine: Paper 2**

S. N.	Topic	W= I x F	Marks Allowed	MCQs	SAQs	LAQs
1	Nutrition & environment	4	9	6	2	
2	Respiratory system	9	21	8	3	1
3	Rheumatology	1	3	6		
4	Renal system	4	9	2		1
5	Neurology	9	21	8	3	1
6	Psychiatry	1	3		1	
7	Geriatrics	1	3		1	
8	Dermatology	1	3		1	
	Total	30	72	30	11	3



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Step 6: Decide the Level of Assessment
Paper 1: General Medicine

S. N.	Topic	W= I x F	Marks Allowed	MCQs	SAQs	LAQs
1	Endocrinology	4	9	6 (C+A)	2 (C)	
2	Infectious diseases	6	18	8 (R+C+A)	2 (C)	1(R+C)
3	Cardiovascular system	9	18	8 (R+C)	2 (C)	1(R+C+A)
4	Haematology	4	8	4 (C+A)	2 (C)	
5	GIT & Hepatobiliary system	9	13	4 (R)	1 (R)	1(R+C)
6	Toxicology	1	2		1 (R)	
7	Oncology	1	2			
8	Genetics	1	2		1 (C)	
	Total	35	72	30	11	3

Step 6: Decide the Level of Assessment
Paper 2: General Medicine

S. N.	Topic	W= I x F	Marks Allowed	MCQs	SAQs	LAQs
1	Nutrition & environment	4	9	6 (R+C)	2 (C)	
2	Respiratory system	9	21	8 (R+ C)	3 (C+A)	1 (R+C+A)
3	Rheumatology	1	3	6 (R+ C)		
4	Renal system	4	9	2 (R)		1 (R+C)
5	Neurology	9	21	8 (R+C+A)	3 (C+A)	1(R)
6	Psychiatry	1	3		1(C)	
7	Geriatrics	1	3		1(R)	
8	Dermatology	1	3		1(C)	
	Total	30	72	30	11	3

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UG - Syllabus Blue Print – (Preliminary Exam)

**Step: 1 Topics / content areas
General Medicine – Paper 1: List of Topics**

Sr. No.	Topics
1	Endocrinology
2	Infectious diseases
3	Cardiovascular system
4	Hematology
5	GIT & Hepatobiliary system
6	Toxicology
7	Oncology
8	Genetics

General Medicine – Paper 2: List of Topics

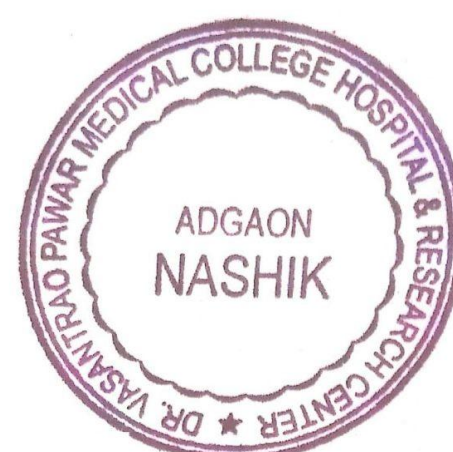
Sr. No.	Topics
1	Nutrition & environment
2	Respiratory system
3	Rheumatology
4	Renal system
5	Neurology
6	Psychiatry
7	Geriatrics
8	Dermatology

Step 2 : Skeleton of The Assessment Tool

Question pattern/type	No. of items	Marks	Marks including options
MCQS	30 (0.5 marks each)	15	15
LAQS	3 (8 marks each)	24	24
SAQS	7 out of 11 (3 marks each)	21	33
TOTAL	44	60	72

Step 3 : Decide The Weightage of Each Topic

- For clinical subjects :
- Formula for weightage (W)
- $W = I \times F$
- W = Weightage
- I= Impact or perceived importance
- F = Frequency of occurrence of disease in the community



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**Step 4: Calculation of Weightage of Each Topic
General Medicine – Paper 1**

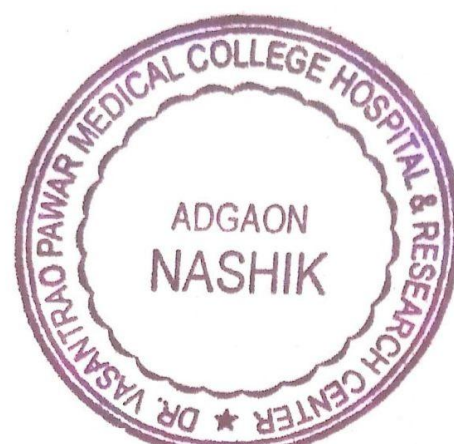
S. N.	Topic	Impact	Frequency	W= I x f
1	Endocrinology	2	2	4
2	Infectious diseases	2	3	6
3	Cardiovascular system	3	3	9
4	Haematology	2	2	4
5	GIT & Liver	3	3	9
6	Toxicology	1	1	1
7	Oncology	1	1	1
8	Genetics	1	1	1

General Medicine – Paper 2

S. N.	Topic	Impact	Frequency	W= I x f
1	Nutrition & environment	2	2	4
2	Respiratory system	3	3	9
3	Rheumatology	1	1	1
4	Renal system	2	2	4
5	Neurology	3	3	9
6	Psychiatry	1	1	1
7	Geriatrics	1	1	1
8	Dermatology	1	1	1

**Step 4: Calculate the Marks Allotted for Each Topic
Paper 1: General Medicine**

S. N.	Topic	W= I x F	Marks allotted
1	Endocrinology	4	9
2	Infectious diseases	6	18
3	Cardiovascular system	9	18
4	Hematology	4	8
5	GIT & Hepatobiliary system	9	13
6	Toxicology	1	2
7	Oncology	1	2
8	Genetics	1	2
	Total	35	72



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Step 4: Calculate the Marks Allotted for Each Topic
Paper 2: General Medicine

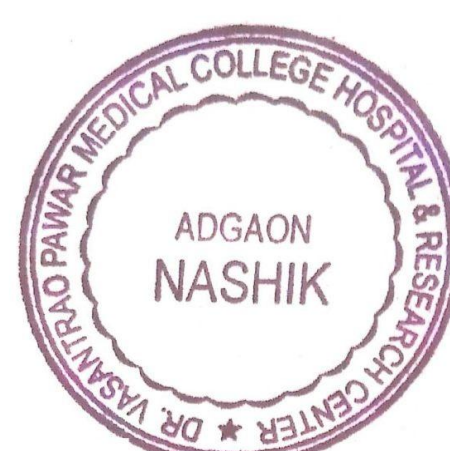
S. N.	Topic	W= I x F	Marks allotted
1	Nutrition & environment	4	9
2	Respiratory system	9	21
3	Rheumatology	1	3
4	Renal system	4	9
5	Neurology	9	21
6	Psychiatry	1	3
7	Geriatrics	1	3
8	Dermatology	1	3
	Total	30	72

Step 5: Decide the Types of Question as Per Allotted Marks
General Medicine: Paper 1

S. N.	Topic	W= I x F	Marks Allowed	MCQs	SAQs	LAQs
1	Endocrinology	4	9	6	2	
2	Infectious diseases	6	18	8	2	1
3	Cardiovascular system	9	18	8	2	1
4	Haematology	4	8	4	2	
5	GIT & Hepatobiliary system	9	13	4	1	1
6	Toxicology	1	2		1	
7	Oncology	1	2			
8	Genetics	1	2		1	
		35	72	30	11	3

Step 5: Decide the Types of Question as Per Allotted Marks
General Medicine: Paper 2

S. N.	Topic	W= I x F	Marks Allowed	MCQs	SAQs	LAQs
1	Nutrition & environment	4	9	6	2	
2	Respiratory system	9	21	8	3	1
3	Rheumatology	1	3	6		
4	Renal system	4	9	2		1
5	Neurology	9	21	8	3	1
6	Psychiatry	1	3		1	
7	Geriatrics	1	3		1	
8	Dermatology	1	3		1	
	Total	30	72	30	11	3



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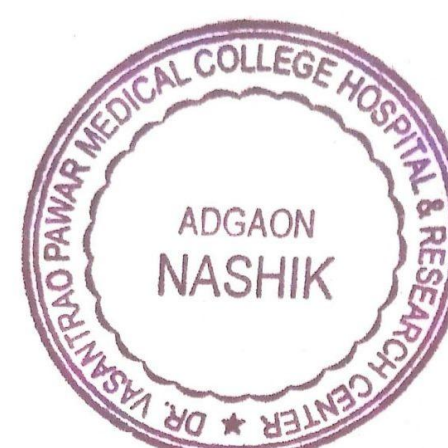
**Step 6: Decide the Level of Assessment
Paper 1: General Medicine**

S. N.	Topic	W= I x F	Marks Allowed	MCQs	SAQs	LAQs
1	Endocrinology	4	9	6(C+A)	2(C)	
2	Infectious diseases	6	18	8(R+C+A)	2 (C)	1(R+C)
3	Cardiovascular system	9	18	8(R+C)	2 (C)	1(R+C+A)
4	Haematology	4	8	4(C+A)	2 (C)	
5	GIT & Hepatobiliary system	9	13	4(R)	1(R)	1(R+C)
6	Toxicology	1	2		1 (R)	
7	Oncology	1	2			
8	Genetics	1	2		1 (C)	
	Total	35	72	30	11	3

**Step 6: Decide the Level of Assessment
Paper 2: General Medicine**

S. N.	Topic	W= I x F	Marks Allowed	MCQs	SAQs	LAQs
1	Nutrition & environment	4	9	6(R+C)	2(C)	
2	Respiratory system	9	21	8 (R+ C)	3(C+A)	1(R+C+A)
3	Rheumatology	1	3	6(R+ C)		
4	Renal system	4	9	2 (R)		1(R+C)
5	Neurology	9	21	8(R+C+A)	3(C+A)	1(R)
6	Psychiatry	1	3		1(C)	
7	Geriatrics	1	3		1(R)	
8	Dermatology	1	3		1(C)	
	Total	30	72	30	11	3

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2.5.3

**Reforms in
Evaluation**

**Syllabus Blue Print
- PG**



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PG - Syllabus Blue Print – (Preliminary Exams)

Step: 1 Topic / Content Areas
General Medicine – Paper 1: List of Topics
Basic sciences in Medicine

Sr. No.	Topics
1	Critical care Medicine
2	Electrolyte Imbalance
3	Genetics
4	Immunology ,
5	Obesity , Vitamins & Minerals
6	Nutrition
7	Disorders of bone and metabolism

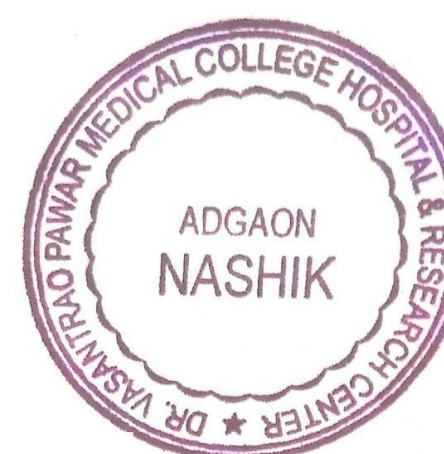
General Medicine – Paper 2: List of Topics

Sr. No.	Topics
1	Renal system
2	Infectious Diseases
3	Cardiovascular system
4	Dermatology
5	Rheumatology
6	Respiratory system

General Medicine – Paper 3: List of Topics

Sr. No.	Topics
1	Oncology
2	Central-Nervous system (part 1)
3	GI &HPB system
4	Toxicology
5	Endocrine system
6	Haematology & Transfusion Medicine

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General Medicine – Paper 4: List of Topics

Sr. No.	Topics
1	Recent advances in Medicine
2	Newer Genetics
3	Pharmacology
4	Psychiatry
5	Systemic Medicine
6	Diagnostic Medicine(Radiology ,Pathology)

Step 2: Skeleton of the Assessment Tool

Question pattern/type	No. of items	Marks	Marks including options
LAQS	2 (25 marks each)	50	50
SAQS	5 out of 6 (10 marks each)	50	60
TOTAL	08	100	110

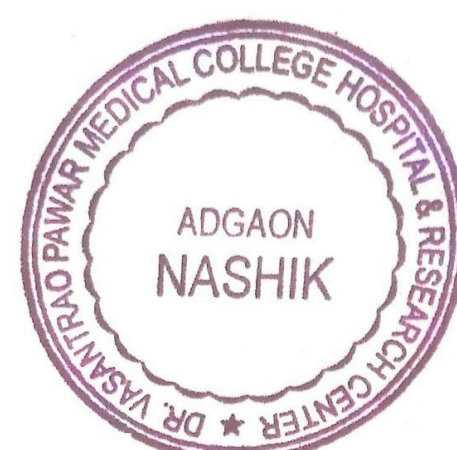
Step 3: Decide the Weightage of Each Topic

- For clinical subjects :
- Formula for weightage (W)
- $W = I \times F$
- W = Weightage
- I= Impact or perceived importance
- F = Frequency of occurrence of disease in the community

Step 4: Calculation of Weightage of Each Topic

General Medicine – Paper 1

S. N.	Topic	Impact	Frequency	W= I x f
1	Critical care Medicine	2	3	6
2	Electrolyte Imbalance	2	3	6
3	Genetics	1	3	3
4	Immunology ,	1	3	3
5	Obesity , Vitamins & Minerals	1	3	3
6	Nutrition	2	3	6
7	Disorders of bone and metabolism	1	3	3



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**Step 4: Calculation of Weightage of Each Topic
General Medicine – Paper 2**

S. N.	Topic	Impact	Frequency	W= I x f
1	Renal system	2	3	6
2	Infectious Diseases	2	3	6
3	Cardiovascular system	2	3	6
4	Dermatology	1	3	3
5	Rheumatology	1	3	3
6	Respiratory system	2	3	6

**Step 4: Calculation of Weightage of Each Topic
General Medicine – Paper 3**

S. N.	Topic	Impact	Frequency	W= I x f
1	Oncology	1	3	3
2	Central-Nervous system (part 1)	2	3	6
3	GI &HPB system	1	3	3
4	Toxicology	2	3	6
5	Endocrine system	2	3	6
6	Haematology &Transfusion Medicine	2	3	6

**Step 4: Calculation of Weightage of Each Topic
General Medicine – Paper 4**

S. N.	Topic	Impact	Frequency	W= I x f
1	Recent advances in Medicine	2	3	6
2	Newer Genetics	1	3	3
3	Pharmacology	1	3	3
4	Psychiatry	1	3	3
5	Systemic Medicine	3	4	12
6	Diagnostic Medicine(Radiology, Pathology)	1	3	3

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**Step 4: Calculate the Marks Allotted For Each Topic
Paper 1: General Medicine**

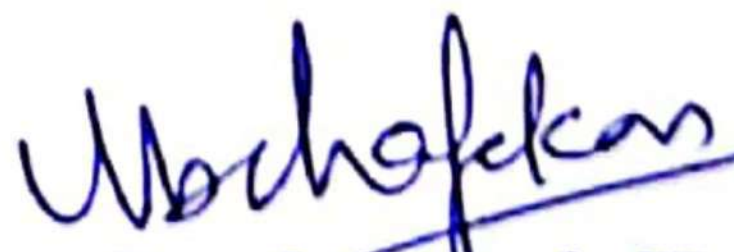
S. N.	Topic	W= I x F	Marks allotted
1	Critical care Medicine	6	25
2	Electrolyte Imbalance	6	25
3	Genetics	3	10
4	Immunology ,	3	10
5	Obesity , Vitamins & Minerals	3	10
6	Nutrition	6	20
7	Disorders of bone and metabolism	3	10

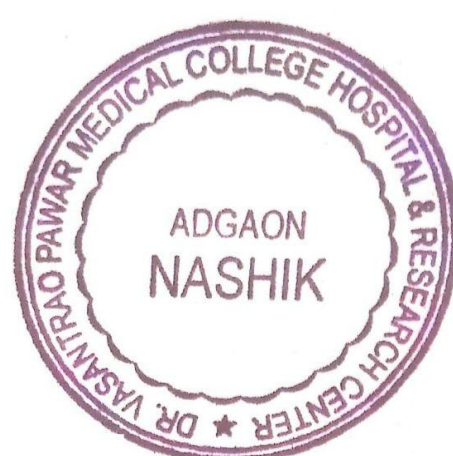
**Step 4: Calculate the Marks Allotted For Each Topic
Paper 2: General Medicine**

S. N.	Topic	W= I x F	Marks allotted
1	Renal system	6	25
2	Infectious Diseases	6	25
3	Cardiovascular system	6	20
4	Dermatology	3	10
5	Rheumatology	3	10
6	Respiratory system	6	20

**Step 4: Calculate the Marks Allotted For Each Topic
Paper 3: General Medicine**

S. N.	Topic	W= I x F	Marks allotted
1	Oncology	3	10
2	Central-Nervous system (part 1)	6	25
3	GI &HPB system	3	10
4	Toxicology	6	25
5	Endocrine system	6	20
6	Haematology &Transfusion Medicine	6	20


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**Step 4: Calculate the Marks Allotted For Each Topic
Paper 4: General Medicine**

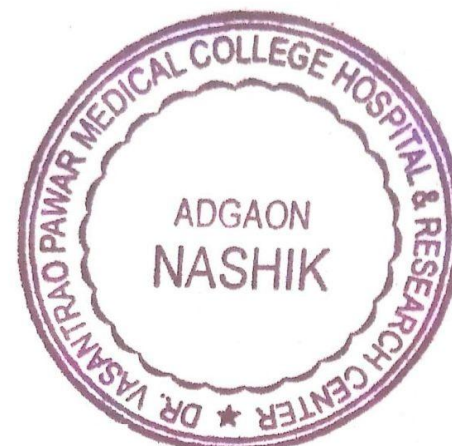
S. N.	Topic	W= I x F	Marks allotted
1	Recent advances in Medicine	6	25
2	Newer Genetics	3	10
3	Pharmacology	3	10
4	Psychiatry	3	10
5	Systemic Medicine	12	45
6	Diagnostic Medicine(Radiology ,Pathology)	3	10

**Step 5: Decide the Types of Question as Per Allotted Marks
General Medicine: Paper 1**

S. N.	Topic	W= I x F	Marks Allowed	SAQs	LAQs
1	Critical care Medicine	6	25		1
2	Electrolyte Imbalance	6	25		1
3	Genetics	3	10	1	
4	Immunology ,	3	10	1	
5	Obesity , Vitamins & Minerals	3	10	1	
6	Nutrition	6	20	2	
7	Disorders of bone and metabolism	3	10	1	
Total		30	110	06	02

**Step 5: Decide the Types of Question as Per Allotted Marks
General Medicine: Paper 2**

S. N.	Topic	W= I x F	Marks Allowed	SAQs	LAQs
1	Renal system	6	25		1
2	Infectious Diseases	6	25		1
3	Cardiovascular system	6	20	2	
4	Dermatology	3	10	1	
5	Rheumatology	3	10	1	
6	Respiratory system	6	20	2	
Total		30	110	06	02



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Step 5: Decide the Types of Question as Per Allotted Marks

General Medicine: Paper 3

S. N.	Topic	W= I x F	Marks Allowed	SAQs	LAQs
1	Oncology	3	10	1	
2	Central-Nervous system	6	25		1
3	GI &HPB system	3	10	1	
4	Toxicology	6	25		1
5	Endocrine system	6	20	2	
6	Haematology &Transfusion Medicine	6	20	2	
Total		30	110	06	02

Step 5: Decide the Types of Question as Per Allotted Marks

General Medicine: Paper 4

S. N.	Topic	W= I x F	Marks Allowed	SAQs	LAQs
1	Recent advances in Medicine	6	25		1
2	Newer Genetics	3	10	1	
3	Pharmacology	3	10	1	
4	Psychiatry	3	10	1	
5	Systemic Medicine	12	45	2	1
6	Diagnostic Medicine(Radiology ,Pathology)	3	10	1	
Total		30	110	06	02

Step 6: Decide the Level of Assessment

Paper 1: General Medicine

S. N.	Topic	W= I x F	Marks Allowed	SAQs	LAQs
1	Critical care Medicine	6	25		1(R+C)
2	Electrolyte Imbalance	6	25		1(R+C+A)
3	Genetics	3	10	1 (C)	
4	Immunology ,	3	10	1 (C)	
5	Obesity , Vitamins & Minerals	3	10	1 (R)	
6	Nutrition	6	20	2 (R+A)	
7	Disorders of bone and metabolism	3	10	1(C)	
		30	110	06	02



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**Step 6: Decide the Level of Assessment
Paper 2: General Medicine**

S. N.	Topic	W= I x F	Marks Allowed	SAQs	LAQs
1	Renal system	6	25		1(R+C)
2	Infectious Diseases	6	25		1(R+A)
3	Cardiovascular system	6	20	2(C+A)	
4	Dermatology	3	10	1(C)	
5	Rheumatology	3	10	1(C)	
6	Respiratory system	6	20	2(R+C)	
		30	110	06	02

**Step 6: Decide the Level of Assessment
Paper 3: General Medicine**

S. N.	Topic	W= I x F	Marks Allowed	SAQs	LAQs
1	Oncology	3	10	1(C)	
2	Central-Nervous system	6	25		1(R+C+A)
3	GI &HPB system	3	10	1(C)	
4	Toxicology	6	25		1
5	Endocrine system	6	20	2(R+C)	
6	Haematology & Transfusion Medicine	6	20	2(R+C)	
		30	110	06	02

**Step 6: Decide the Level of Assessment
Paper 4: General Medicine**

S. N.	Topic	W= I x F	Marks Allowed	SAQs	LAQs
1	Recent advances in Medicine	6	25		1(R+C+A)
2	Newer Genetics	3	10	1(C)	
3	Pharmacology	3	10	1(C)	
4	Psychiatry	3	10	1(C)	
5	Systemic Medicine	12	45	2(R+C)	1
6	Diagnostic Medicine (Radiology ,Pathology)	3	10	1(C)	
		30	110	06	02

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2.5.3

Reforms in

Evaluation

Works Based Assessment

Direct Observation of Procedural Skill.

PG



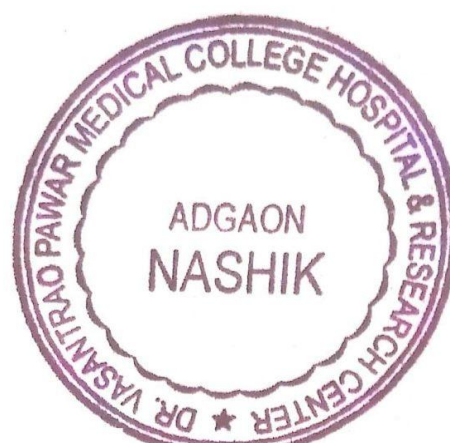
Department of Medicine

DIRECT OBSERVATION OF PROCEDURAL SKILLS (2nd – 3rd PG RESIDENTS)

Procedure: 1: Bone Marrow Aspiration And Biopsy

Assessment domains	Yes	No
1) Indications of procedure <ul style="list-style-type: none">• Diagnostic invasive tests to assess marrow cellularity• diagnosis, staging, and therapeutic monitoring for lymphoproliferative disorders such as chronic lymphocytic leukemia (CLL), Hodgkin and non-Hodgkin lymphoma, hairy cell leukemia, myeloproliferative disorders, myelodysplastic syndrome and multiple myeloma.	✓	
2) Knowledge of relevant anatomy-Optimum site of needle insertion Anterior superior and posterior superior iliac spine anatomy	✓	
3) Technique of procedure <ul style="list-style-type: none">• Position of patient(left lateral)• Explanation of procedure to patient• Location (L3-L4, hip bone, sternum)• Cleaning and draping• Local anaesthesia• Insertion of needle.• Aspiration of bone marrow.• Remove needle• Check hemostasis	✓	
4) pre procedure preparation <ul style="list-style-type: none">• Written and informed consent• Explaining procedure to patient i/v/o indications, effectiveness, risks• Checking adequacy of procedure tray and instruments	✓	
5) patient risk and awareness	✓	
6) Technical ability Assess the precision and confidence during actual procedure	✓	
7) post procedural management –Assessing pain and comfort level Wound cleaning, aseptic measure should take Post procedural notes 6 hrs observation post procedure	✓	
8) communication skills Adequacy of communication, respect towards patient	✓	

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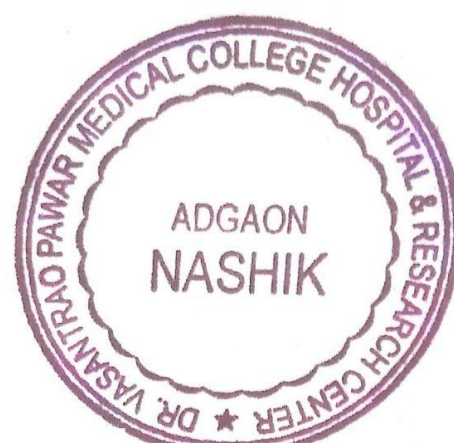
Department of Medicine

DIRECT OBSERVATION OF PROCEDURAL SKILLS (2nd – 3rd PG RESIDENTS)

Procedure: 2: Central Line Insertion

Assessment domains	Yes	No
1) Indications of procedure <ul style="list-style-type: none">Central venous pressure monitoring, pulmonary artery catheter introduction.Emergency venous access (due to difficult peripheral intravenous access)	✓	
2) Knowledge of relevant anatomy- Optimum site of needle insertion Triangle of neck	✓	
3) Technique of procedure <ul style="list-style-type: none">Consent and explain procedure to patientPosition of patientFollowing of aseptic precautionsPainting and drappingInfiltration of local anestheticsPalpation of carotid triangle and carotid vesselsInsertion of needle in IJVCheck venous sampleInsertion of guide wire and catheterRemoval of guide wireFixation by sutureCXR to check catheter position	✓	
4) pre procedure preparation <ul style="list-style-type: none">Written and informed consentExplaining procedure to patient i/v/o indications ,effectiveness ,risksChecking adequacy of procedure tray and instruments	✓	
5) patient risk and awareness	✓	
6) Technical ability Assess the precision and confidence during actual procedure	✓	
7) post procedural management –Assessing pain and comfort level Wound cleaning ,aseptic measure should take Post procedural notes 6 hrs observation post procedure	✓	
8) communication skills Adequacy of communication ,respect towards patient	✓	

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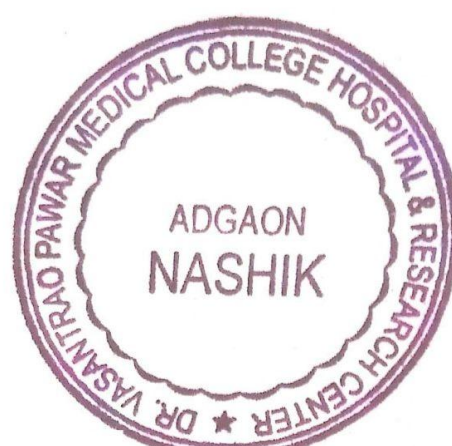


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DIRECT OBSERVATION OF PROCEDURAL SKILLS (2nd - 3rd PG RESIDENTS)
Procedure: 3: Lumbar Puncture Needle

Assessment domains	Yes	No
1) Indications of procedure <ul style="list-style-type: none">Diagnostic invasive tests for inflammatory and infectious diseases of nervous systemTherapeutic purpose in hydrocephalus	✓	
2) Knowledge of relevant anatomy- Optimum site of needle insertion Intervertebral space below L2-L3 vertebrae	✓	
3) Technique of procedure <ul style="list-style-type: none">Consent and explanation of procedural skills to patient.Give position to patient (left/right lateral, chin close to chest, hunched back, knee bend towards chest)Aseptic preparation.Location appropriate location, and anaesthesia infiltration.Insert spinal needle in intervertebral lumbar space L3/L4, L4/L5, or L5/S1Push until a "give" is felt (Sub arachnoid space)Remove stylet and drops of CSF is collectedRemove needle while placing pressure at puncture site	✓	
4) Pre procedure preparation <ul style="list-style-type: none">Written and informed consentExplaining procedure to patient i/v/o indications, effectiveness, risksChecking adequacy of procedure tray and instruments	✓	
5) Patient risk and awareness	✓	
6) Technical ability Assess the precision and confidence during actual procedure	✓	
7) Post procedural management - Assessing pain and comfort level Wound cleaning, aseptic measure should take Post procedural notes 6 hrs observation post procedure	✓	
8) Communication skills Adequacy of communication, respect towards patient	✓	

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DIRECT OBSERVATION OF PROCEDURAL SKILLS (2nd – 3rd PG RESIDENTS)

Procedure: 4: Ascitic Tapping

Assessment domains	Yes	No
1) Indications of procedure <ul style="list-style-type: none">• Diagnostic – exudative / transudative• Therapeutic – to relieve intra abdominal pressure	✓	
2) Knowledge of relevant anatomy- Optimum site of needle insertion Sites to be avoided	✓	
3) Technique of procedure <ul style="list-style-type: none">• Following of aseptic precautions• Painting and draping• Infiltration of local anesthetics SOS• Connection of needle to IV set and to the bottle• Insertion of the needle in the abdominal wall• Observing drainage of fluid –its color and consistency• Repositioning the needle if required for drainage• Stand by patients bedside during the entire procedure• Watch for patients vitals ,adverse events• Termination of the procedure after complete therapeutic tap	✓	
4) pre procedure preparation <ul style="list-style-type: none">• Written and informed consent• Explaining procedure to patient i/v/o indications ,effectiveness ,risks• Checking adequacy of procedure tray and instruments	✓	
5) patient risk and awareness	✓	
6) Technical ability Assess the precision and confidence during actual procedure	✓	
7) post procedural management –Assessing pt pain and comfort level Wound cleaning ,aseptic measure should take Post procedural notes 6 hrs observation post procedure	✓	
8) communication skills Adequacy of communication ,empathy, respect towards patient	✓	

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2.5.3

Reforms in

Evaluation

Works Based Assessment

Mini - CEX Blue Print

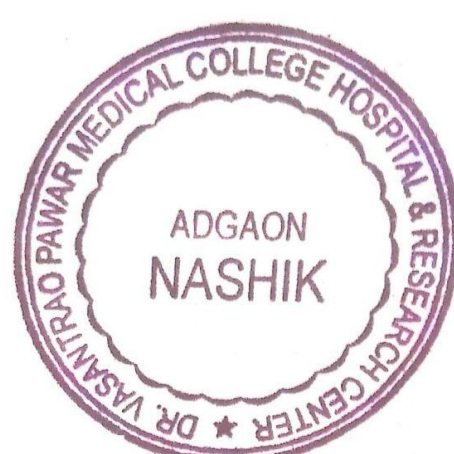
1st Year PG



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Mini - CEX Blueprint – for 1st Year Post Graduates

Assesment domains		Yes	No
1)	History taking skill Student instructions: checklist		
1)	Your are expected to take focused history ,detail history of present illness, past history ,family history ,history of treatment and history of etiology.	✓	
2)	You will be tested on your ability to take a focused history		
2)	Physical examination skill You should be able to find out nutrional status of patient You should able to check pallor, icterus, lymphadenopathy and demonstrate methods of palpations and inspection of these findings ,common sites we look for You should able to examine all systemic thourouly in details.	✓	
You should able to examine in detail of			
1)	Respiratory system – inspection ,palpation, percussion and auscultation		
2)	Per abdomen – inspection ,palpation ,percussion		
3)	CNS – sensory, motor, higher functions, you able to calculate GCS score in any patient.		
4)	CVS- inspection ,palpation .percussion and auscultation		
3)	Diagnostic skills and modality You should able to conclude the probable diagnosis of the patient with associated risk factors You able to make differential diagnosis	✓	
4)	Management and follow up planning	✓	
5)	Clinical judgment and decision making	✓	
6)	Communication and listening skills You should able to communicate with patient and relatives regarding seriousness of condition in there mother tongue.	✓	
7)	Organization and Time management	✓	



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2.5.3

Reforms in Evaluation

Works Based Assessment



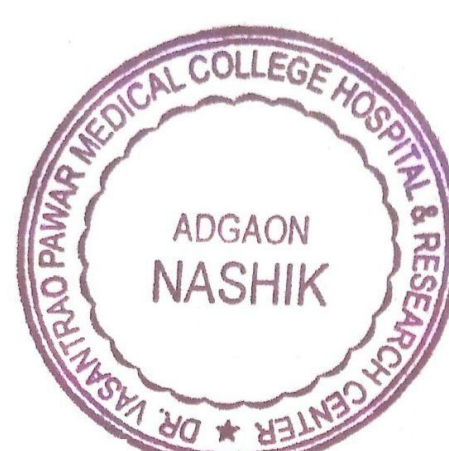
Department of Medicine

Workplace Based Assessment

The Department of Medicine implements different types of Workplace based assessment modules as part of *Formative Assessment* of its students, for assessing clinical competence conforming to the *Miller's Pyramid* so that a student's ability in the varying domains of '*Knows, Knows How, Shows How, Does*' is adequately assessed.

DOMAINS OF ASSESSMENT

History taking	Elicits an accurate, organized and problem focused medical history, including family, social, occupational and lifestyle features from the patient and other sources.
Physical or mental state examination	Performs a full and accurate physical examination, including a mental state examination, or a problem focused examination
Performing a procedural skill	Performs safely a common procedural skill (must specify the skill and ensure that it is from a defined list of core procedures)
Rationale for differential diagnosis	Integrates and interprets findings from the history and examination, to arrive at a relevant differential diagnosis. Discriminates between possible differential diagnosis.
Communication skills	Demonstrates by active listening, sharing and responding, the ability to communicate clearly, sensitively and effectively with the patients.
Professional behavior	Demonstrates compassion, empathy and respect for the patient.



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For 1st year PG Students The Mini-CEX Competency Assessment is used as Workplace Assessment

mini-CEX COMPETENCIES

1. History taking skills
2. Physical examination skills
3. Diagnostic skills and underlying knowledge base
4. Management and follow-up planning
5. Clinical judgement and decision making
6. Communication and listening skills
7. Organisation and time management

For 2nd and 3rd year PG Students The Direct Observation of Procedural Skill is used as Workplace Assessment

What are the domains for assessment?

- ✓ Understanding of indications, relevant anatomy, technique of procedure
- ✓ Pre-procedure preparation
- ✓ Patient and risk awareness
- ✓ Technical ability
- ✓ Post-procedure management
- ✓ Communication skills



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