

Organizing The OSCE /OSPE Station

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OSCE/OSPE planning



- **Location**
- **Space**

Factors influencing reliability of OSCE



- **The Length of the whole OSCE**
- **The Length of Station**
- **The number of station**
- **The diversity of Skills**
- **Training the examiners**
- **Non Standardized patients**
- **Combining tests**
- **Check list**

How many and how long..?



- **4-15min**
- **20 stations plus rest station takes over 2hrs at five mins per station**
- **If the task can be done in 5mins by a majority of candidates, adding extra time makes the station no more reliable and valid**



Planning: OSPE/OSCE station

What do you wish to assess...

- **Clinical methods**
- **Practical procedures**
- **Problem solving & Clinical reasoning**
- **Interpretation of laboratory data**

Station- types



- **Procedure station**
- **Response station**
- **Linked station**
- **Rest station**
- **Critical station**

OSPE/OSCE Grid-Discipline based



| | Hx taking & diagnosis | Physical exam. | Procedure | Counseling/Education | Investig. |
|-------------|-----------------------|----------------|-----------|----------------------|-----------|
| CVS | | | | | |
| Endocrine | | | | | |
| Neurology | | | | | |
| Anaesthesia | | | | | |
| Haem & LN | | | | | |
| Family Med | | | | | |
| Ortho | | | | | |
| OBGY | | | | | |

OSPE /OSCE Grid –System Based



| | Hx & Diagnosi s | Physical Exam. | Proced ure | Counse ling/Ed ucation | Inv. |
|-----|--------------------------------|---------------------------|-----------------------|---------------------------------------|-------------|
| CVS | | | | | |
| RS | | | | | |
| GI | | | | | |
| CNS | | | | | |

| | Hx | Physical Exam. | Procedu re | Counsel ing/Edu cation | Xray | Form | Tests |
|---------------|----|----------------|------------|------------------------|------|------|-------|
| Gen.Sx | + | ++ | | + | + | + | + |
| Vascular | + | + | | | | | |
| Urology | + | | + | | | | |
| Neuro .Sx | | + | | | + | | |
| Critical Care | | | | | + | | |
| Radiology | | | | | + | | |



Checklist of resources

- **Examiners /observers**
- **Patients- real /simulated**
- **Co-ordinator**
- **Equipment- furniture tables chairs stop watch electrical bell**
- **Paperworks- checklists/instructions for examiners sheets for students & brief for simulated patients**
- **Allocation of marks & validation of questions**



STATION 1:
Procedure Station:
Urine: Physical/ Chemical Examination

STATION 12:
Response Station:
Specimen: Systemic Pathology

STATION 11:
Response Station:
Slide: Systemic Pathology

STATION 10:
Response Station:
Specimen: General Pathology

STATION 9:
Response Station:
Slide: General Pathology

REST STATION

STATION 8:
Procedure Station:
Attitude testing/ Counselling skill testing



STATION 2:
Response Station:
Urine: Physical/ Chemical Examination

STATION 3:
Response Station:
Urine: Microscopy/ Chart interpretation

STATION 4:
Procedure Station:
Hematology Procedure

REST STATION

STATION 5:
Response Station:
Hematology/ Clinical Pathology Instrument/ Slide

STATION 6:
Response Station:
Hematology Chart Interpretation

STATION 7:
Response Station:
CSF/ Clinical Pathology Chart Interpretation



Final Day.....



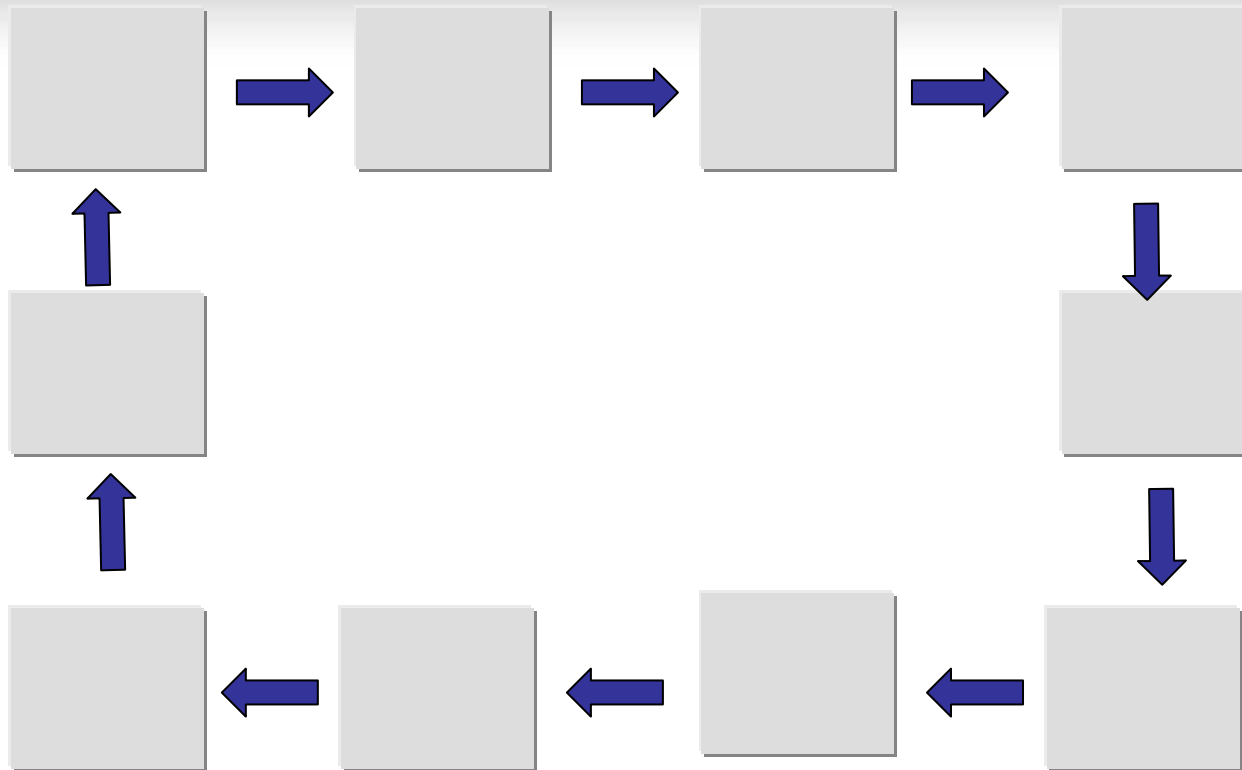
- **Brief the students**
- **Station map**
- **Instruction sheet**
- **Answer booklet**



Instructions to students

1. Prominently display roll no.
2. Number of stations -**10**
3. Proceed in clockwise manner
4. Time allotted -**'5' min** (each station)
5. Start & end of time (ring of bell)
6. Clear instructions at each station
7. Write answers on the sheet provided
8. No negative marking

Station backbone



Possible Stations



- **Communication- telephonic**
- **Counselling- a trained SP**
- **Breaking bad news**
- **Intubation/CPCR- anesthesia manikin**
- **Assembling equipment- i.v infusion set**

Check list for History



| Sr. | Item | Candidates | | | |
|-----|---------------------------|------------|---|---|--|
| | | 1 | 2 | 3 | |
| | +1/0 | | | | |
| 1 | Age | | | | |
| 2 | Duration | | | | |
| 3 | Smoking/tobacco chewing | | | | |
| 4 | Claudication distance | | | | |
| 5 | Claudication grade | | | | |
| 6 | Factors which exacerbate | | | | |
| 7 | Factors that relieve | | | | |
| 8 | Addresses patient by name | | | | |
| 9 | Frames questions clearly | | | | |
| 10 | Thanks patient | | | | |
| | Total marks (10) | | | | |



| Sr | Item ↓ → | Candidate No. | 1 | 2 | 3 | 4 |
|----|---|---------------|---|---|---|---|
| 1 | Introduces & explains the patient +1/0 | | | | | |
| 2 | Elicits fluctuation of nail bed + 2/0 | | | | | |
| 3 | Compares both hands +2/0 | | | | | |
| 4 | Examines toes +2/0 | | | | | |
| 5 | If clubbing is ++, looks for periosteal reaction +2/0 | | | | | |
| 6 | Thanks patient +1/0 | | | | | |
| | Total marks (10) | | | | | |

Instructions to observer-Mark(+) if yes/done .Mark(-) if no or not done

Name of observer:

Signature:



Procedure Station

Task: Perform examination to detect proteins in the given urine sample. Write down interpretation in your answer book

Equipment: Urine sample, Test tubes with stand, Spirit lamp, Test tube holder, matchbox, 10% acetic acid

Perform examination to detect proteins in the given urine sample. Write down interpretation in your answer book



| | STUDENTS' ROLL NUMBER | | | | | | | | | | |
|---|----------------------------------|---|---|---|---|---|---|---|---|---|----|
| | Marks given if done/ not done | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1. Filled test tube up to 2/3rds with urine | 2 / 0 | | | | | | | | | | |
| 2. Acidified with 10% acetic acid | 1/0 | | | | | | | | | | |
| 3. Heated top of the test tube | 2/ -1 | | | | | | | | | | |
| 4. Added acetic acid if turbidity appears | 2/ -1 | | | | | | | | | | |
| 5. Re-heated the test tube at the upper part | 1/ 0 | | | | | | | | | | |
| 6. Recorded findings correctly in answerbook with grade | 2/ 0 | | | | | | | | | | |
| Total score | | | | | | | | | | | |

Response Station



Slide of a tuberculous lymph node is focussed under the microscope

- **Identify the organ of involvement** **1mark**
- **Identify the pathology** **1 mark**
- **What are the diagnostic points in**
- **favour of your diagnosis** **2 mark**
- **Name 2 sites not commonly involved**
- **by this lesion** **1 mark**



OSCE/OSPE designing

- **Group objective structured practical examination (GOSPE):** evaluates skill of a performance in group activity
- **Computerised objective structured practical examination(COSPE) :** questions projected on a LCD screen

Feedback



- **Observer feedback**
- **Student feedback**



THANK YOU