

INDIAN COLLEGE OF RADIOLOGY AND IMAGING



MASTERS IN CLINICAL RADIOLOGY (MICR)

(MICR by ICRI, Academic wing of IRIA)

How to prepare for MICR step 3B – the final qualifying step.

This examination has total of 2 hours of Viva and OSCE inclusive.

This is conducted in person in a designated center.

VIVA and OSCE:

Every candidate has to go through 4 rooms (in any order)

Room 1: Viva – 30 minutes

Examiner 1 – Neuro/neck/ spine – 15 minutes

Examiner 2 – Chest /CVS – 15 minutes

Room 2: Viva – 30 minutes

Examiner 1 – ABDOMEN/PELVIS (GIT/GUT)– 15 minutes

Examiner 2 – MSK – 15 minutes

Room 3: Viva – 30 minutes

Examiner 1 – Women’s imaging – 15 minutes

Examiner 2 – paediatrics/ Onco – 15 minutes

(Please note the above demarcation of system is a guideline only; multisystem disorder and few other cases related to any system may be shown at any rooms in relevant cases – all modality from Radiograph to functional imaging can be part of the cases)

Room 4 : OSCE – 30 minutes – BROAD AREAS - ULTRASOUND AND INTERVENTION

OSCE INCLUDES TESTING OF

- **Ultrasound skills and knowledge of technique – abdomen, obstetrics, small parts including MSK/Neck; machine settings**
- **Communication skills with patient**
- **Ultrasound guided biopsy – demonstration**
- **Hardware, catheters, guidewires and other commonly used instruments**
- **Legal knowledge -eg: AERB / PCPNDT guidelines and regulations.**
- **Ultrasound Cases and clinical approach**
- **Interventional cases and approach**

EXAMPLES:

Examiner 1:

- 1. Abdomen – demonstrate the segment 8 of liver and its land marks? How to show the posterior aspect of liver if difficult?**
- 2. Flash cards – fetal radiology image, related questions on technique, knowledge and diagnosis as appropriate; protocols and technical knowledge will be tested.**
- 3. Small parts – skills demo; neck, musculoskeletal and soft tissue ultrasound – any one or two parts may be asked to demonstrate on the volunteer.**
- 4. Video loops of various system / fetal ultrasound cases can be shown**
- 5. Your practical approach to scanning will be tested. PCPNDT laws can be asked.**

Examiner 2

1. All interventional cases can be shown on monitor – presentation, imaging and treatment plan can be discussed
2. FNAC / biopsy - the target on this phantom using ultrasound? Which probe you select and why?
3. Hard ware – catheters, guidewires, drain tubes, xray tube parts etc.
4. Contrast – content/ dosage / practical management of reactions
5. Legal – AERB and PCPNDT regulations

Remarks:

Viva rooms will have a monitor connected to examiners computer

Dicom images will be displayed for each case – using Radiant, Osirix or Horos software

Each case will be marked by the examiner

No feedback about the performance will be given by the examiner on the day; results will be announced in 2 to 3 weeks.

No electronic equipment allowed inside the viva; all to be handed over / kept in designated place.

OSCE room – ultrasound machine and volunteer will be present.

Markings and Guidelines for marks:

Marks	Performance	Decision
0		discarded/passed over
2		Fail (no relevant findings / no diagnosis/ no clue
3		Fail (few minor findings/no diagnosis/poor differential / significant error that may compromise patient life)
4		Fail (few findings given / no diagnosis/ few differentials / not much Management options
5		Borderline fail (not reached the diagnosis) but DD is ok / reasonable approach – unable to interpret the findings with clinical setting or correlate; clinical discussion limited.

6		Pass (got the findings, reached the DD which included the diagnosis but discussion was slightly fragmented– some clinical clues needed but able to reach the correct course and able to answer the clinical questions.
7		Good pass – all essential findings, diagnosis, reasonable DD, relevant management options
8		Excellent – as above with answering probing questions and clinical discussions
9		Outstanding - from start to end with good clinical correlation, pathological process assessment and answering all relevant probing questions in all aspects of medicine and surgery with complete clinical orientation
10		Medal contender

A minimum of 6 or 7 needed to pass that particular viva

Overall, from 8 examiners - the total score should be 50* – to pass.

Max one score of 5 allowed, provided the total has reached 50*

Any score of 4 may lead to fail in step 3 MICR; if the candidate total reaches beyond 50 inspite of only one score of 4, there will be deliberations on the performance again by the respective examiner before the final result.
