OSCE Volume I



AUTHORS AND THEIR DEDICATIONS



Prof. Dr. SM Tuli

Dedicated to my parents Shanti Tuli and Ram Lal Tuli, my Parents; my teachersProf. K.S Grewal, Prof P. K Duraiswamiand Prof. Balu Sankaran my teachers; and large number of my stimulating students, and my ungrudging patients, who provided me the opportunities to study and enjoy the science and art of Medicine.



Prof. Dr. Sudhir Kumar

Dedicated to my students and patients.



Prof. Dr. Anil Dhal

Dedicated to 'The art of clinical examination from the masters of yesterday to the torchbearers of tomorrow.' The lines on coverpage "Established, Current & Emerging Concepts of Spine" are thoughtfully written by Prof. Dr. Anil Dhal.



Prof. Dr. Shantharam Shetty

I dedicated this work to thousands of my patients, my teachers and my students who have made it possible for me to be what I am today.



Prof. Dr. VB Bhasin

This book is dedicated to all who want to master Orthopedics.



Prof. Dr. Gopa Kumar

I dedicate my work in conceptul orthopedics to my wife and children



Dr. Ravinder Dimri

I dedicate this book to all those young minds who keep asking me "Why?" and "How?" which encourages me to read and learn new things.



Dr. Shekhar agarwal

I dedicate my work in conceptul orthopedics to my family and patients.



Padma Shree Prof. Dr. Mayil Natarajan

I humbly dedicate this book to my parents Prof. Natrajan and Dr. Janaki.



Dr. Ajith Kumar

Humbly dedicated to my parents, Mr. Chandrashekar Shetty and Mrs. Malathi Shetty, my teachers Prof. A.Srinivasa Rao, Prof. Verghese Chacko, Prof. Shantharam Shetty, Prof. Bhaskaranand Kumar, Prof. Benjamin Joseph, Prof. SP Mohanty, Prof. Sripathi Rao, my innumerable colleagues, my loving family and in particular Team Tejasvini and my patients and residents each of whom in their own way kindled the fire and kept me going.



Prof. Dr. Heiko Graichen

I dedicate this book to my wife Sinikka and my two sons Niklas and Julius and thank them for their patience and their never-ending support. They are the source for my energy.



Dr. Ram Chaddha

Dedicated to all my beloved patients who taught me: truth and transparency build trust in treatment.



Prof. Dr. Shubhranshu Shekhar Mohanty

Dedicated to my First teacher in Orthopaedics, Prof. P. T. Rao, who influenced me to pursue this branch of medicine.



Dr. Harpreet Singh

I would like to thank my family, my wife and my kids for their constant support. I would like to dedicate this work to my teachers, my seniors and my students who inspired me to become a better teacher and a better human being.



Dr. Ashish Taneja

Dedicated to my beloved mother, my sincere father, my loving & caring wife and my two lifelines (my kids).



Dr. Shailesh Pai

This work is dedicated to The Almighty, my parents and my mentors for their constant blessings. To my wife for the support and encouragement and my kids for awakening the child in me. Last but not the least to the Team Conceptual Orthopedics for being a source of inspiration.



Dr. Vivek Verma

I dedicate this to my teachers who made me what I am today.



Dr. Mohammed Faheem Kotekar

Dedicated to my Dad.



Dr. Maninder Singh Shah

Dedicated to my parents, wife and children whose support and love has been my pillar of strength.



Dr. Sunil Gurpur Kinni

I dedicate this book to my family, teachers and patients.



Dr. Mrinal Sharma

I dedicate this book to my wife Dr. Shalini Sharma.



Dr. Anuj Jain

I dedicate this book to my teachers and my family.



Dr. Vishal Huggi

Dedicated with gratitude to My parents who have given me the very best of all opportunities, my teachers, who inspired and sculptured me and all the patients without whom it would not be possible to learn any branch of medicine.



Dr. Jitesh Manghwani

Dedicated to my my mother- Seema Manghwani. Everything I know of this world is because of her.



Dr. Yogesh Gowda

Dedicated to my teachers who mentored me, all the patients who trusted me, all the peers whom I deeply respect, all the friends who stood by me & all the people who inspired me.



Dr. Zeeshan Muzahid T

I would like to thank Almighty God for His blessings, my loving parents Hajivali & Zeenath Banu, because of who I'm today, my caring brother Dr. Zahid Hussain & beloved postgraduates for academic help and last but not the least my dearest wife, Dr Mahaboob Jahan for her constant support.



Dr. Anuj Chawla

Dedicated to my family for making me what I am today.



Dr. Suvrat Arya.

Dedicated to my parents, Dr. Sushma Arya and Mr. Vijay Bhushan Arya and my wife Dr. Shruti Jain.



Dr. Abhinav Jogani

I would like to humbly dedicate this book to God almighty, parents & wife, teachers, and my alma mater Seth GS Medical College and KEM Hospital, Mumbai.



Dr. Naufal Nahas

I would like to dedicate this book to my brother Nabeel Nahas who taught me that one should 'Learn, Listen and Seek' only what he loves and has passion for.



Dr. Piyush Godegone

Dedicated to my first teachers of Orthopaedics-My father, Dr. Wasudeo Gadegone, and my brother in law Dr. Vijayanand Lokhande



Dr. Rohit Prasad

Dedicated to my parents for their persistent motivation, to my wife for laying the foundation of good things in my life and to the readers who constantly inspire us to perform better.



Dr. Shekhar Srivastav

I dedicate my work to my Teachers, Dr. Shekhar Agarwal, My Patlents and Most importantly My Family.



Dr. Raju Easwaran

i would like to dedicate this book to Dr Matthew Varghese from whom I've learnt so much with orthopaedics being a small portion of the vast knowledge he has imparted & continues to do so selflessly.



Dr. Amite Pankaj Agarwai

I dedicate my work to my patients.



Dr. Ankit Khurana

This work is dedicated to Almighty God, my ever-present source of strength and guidance. I am eternally grateful to my parents, Dr. Ashok Khurana and Dr. Suchitra Khurana, for their unwavering encouragement. To my caring sister, thank you for always being there for me. Finally, to my dearest wife and my cute son, your love and understanding have been a constant source of inspiration



Dr. Nishant Gupta

I dedicate the book to my teachers, my parents, wife and my daughter Avnisha Gupta.



Dr. Laxmi Narayan Jajoriya

I dedicate my work to Parents, Teachers and Patients



Dr. Aditya Verma

In gratitude for their unwavering support and endless encouragement, this book is dedicated to my parents, grandparents and brother, whose love has illuminated every page of my life.



Dr. Apurv Mehra

I dedicate this book to my daughter, Vrinda Mehra, my patients, & my students who have helped me evolve as a surgeon & a teacher.



Table of Content

Total Covid Section 1. Introduction 1	292 305 311
1.1 Introduction 1 Section 8. Mock OSCE	
Section 2. Mock OSCE	
2.1 OSCE Paper - 1 3 8.2 OSCE Paper - 7 2.2 OSCE Paper - 2 8 8.3 OSCE Paper - 8 2.3 OSCE Paper - 3 12 8.4 OSCE Paper - 9 2.4 OSCE Paper - 4 17 8.5 OSCE Paper - 10 2.5 OSCE Paper - 5 21 Section 9. Tumors Section 3. General Principles 9.1 Benign 3.1 Anatomy 26 3.2 Surgical Techniques and Approaches 39 3.3 Basic Sciences 44 3.4.1 Imaging 52 3.4.2 X-rays by Dr Tuli 68 3.5 Implants And Instruments 85 3.6 Biostat 118 3.7 Orthotic And Prosthetics 128 3.8 Pathology Specimens 153	
2.2 OSCE Paper - 2 2.3 OSCE Paper - 3 2.4 OSCE Paper - 4 2.5 OSCE Paper - 5 Section 3. General Principles 3.1 Anatomy 3.2 Surgical Techniques and Approaches 3.3 Basic Sciences 3.4.1 Imaging 3.4.2 X-rays by Dr Tuli 3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 8.3 OSCE Paper - 8 8.4 OSCE Paper - 9 8.5 OSCE Paper - 10 Section 9. Tumors 9.1 Benign 9.2 Malignant Section 10. Congenital Disorders and Syndromes 10.1 Congenital Disorders And Syndromes 11.1 Traumatic 11.2 Non - Traumatic Section 12 Spine	311
2.2 OSCE Paper - 2 2.3 OSCE Paper - 3 2.4 OSCE Paper - 4 2.5 OSCE Paper - 5 Section 3. General Principles 3.1 Anatomy 3.2 Surgical Techniques and Approaches 3.3 Basic Sciences 3.4.1 Imaging 3.4.2 X-rays by Dr Tuli 3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 8.3 OSCE Paper - 8 8.4 OSCE Paper - 9 8.5 OSCE Paper - 10 Section 9. Tumors 9.1 Benign 9.2 Malignant Section 10. Congenital Disorders and Syndromes 10.1 Congenital Disorders And Syndromes 11.1 Traumatic 11.2 Non - Traumatic Section 12 Spine	
2.3 OSCE Paper - 3 2.4 OSCE Paper - 4 2.5 OSCE Paper - 5 Section 3. General Principles 3.1 Anatomy 3.2 Surgical Techniques and Approaches 3.3 Basic Sciences 3.4.1 Imaging 3.4.2 X-rays by Dr Tuli 3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 12 8.4 OSCE Paper - 9 8.5 OSCE Paper - 10 Section 9. Tumors 9.1 Benign 9.2 Malignant Section 10. Congenital Disorders and Syndromes 10.1 Congenital Disorders And Syndromes 11.1 Traumatic 11.2 Non - Traumatic Section 12 Spine	316
2.4 OSCE Paper - 4 2.5 OSCE Paper - 5 Section 3. General Principles 3.1 Anatomy 3.2 Surgical Techniques and Approaches 3.3 Basic Sciences 3.4.1 Imaging 3.4.2 X-rays by Dr Tuli 3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 17 21 Section 9. Tumors 9.1 Benign 9.2 Malignant Section 10. Congenital Disorders and Syndromes 10.1 Congenital Disorders And Syndromes 11.1 Traumatic 11.2 Non - Traumatic 11.2 Non - Traumatic Section 12 Spine	321
2.5 OSCE Paper - 5 Section 3. General Principles 3.1 Anatomy 3.2 Surgical Techniques and Approaches 3.3 Basic Sciences 3.4.1 Imaging 3.4.2 X-rays by Dr Tuli 3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 26 9.1 Benign 9.2 Malignant Section 10. Congenital Disorders and Syndromes 10.1 Congenital Disorders And Syndromes Section 11. Pediatrics 11.1 Traumatic 11.2 Non - Traumatic Section 12 Spine	326
3.1 Anatomy 3.2 Surgical Techniques and Approaches 3.3 Basic Sciences 3.4.1 Imaging 3.4.2 X-rays by Dr Tuli 3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 3.9 Section 10. Congenital Disorders and Syndromes 3.0 Section 11. Pediatrics 3.1 Inaging 3.2 Malignant 3.2 Section 10. Congenital Disorders and Syndromes 3.3 Section 11. Pediatrics 3.4 Inaging 3.5 Implants And Instruments 3.6 Section 11. Pediatrics 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 3.9 Section 10. Congenital Disorders and Syndromes 3.1 Inaging 3.2 Malignant 3.3 Section 10. Congenital Disorders and Syndromes 3.4 Inaging 3.5 Inaging 3.6 Section 11. Pediatrics 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 3.9 Section 10. Congenital Disorders and Syndromes 3.0 Inaging 3.1 Inaging 3.2 Malignant 3.2 Section 10. Congenital Disorders and Syndromes 3.4 Inaging 3.5 Inaging 3.6 Section 11. Pediatrics 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 3.9 Section 12. Spine	
3.1 Anatomy 3.2 Surgical Techniques and Approaches 3.3 Basic Sciences 3.4.1 Imaging 3.4.2 X-rays by Dr Tuli 3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 3.9 Section 10. Congenital Disorders and Syndromes 3.0 Section 11. Pediatrics 3.1 Traumatic 3.1 Anatomy 9.2 Malignant Section 10. Congenital Disorders And Syndromes 10.1 Congenital Disorders And Syndromes 10.1 Traumatic 11.1 Traumatic 11.2 Non - Traumatic 11.3 Section 12 Spine	331
3.2 Surgical Techniques and Approaches 3.3 Basic Sciences 44 Syndromes 3.4.1 Imaging 3.4.2 X-rays by Dr Tuli 3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 39 Section 10. Congenital Disorders and Syndromes 10.1 Congenital Disorders And Syndromes 10.1 Traumatic 11.1 Traumatic 11.2 Non - Traumatic 11.2 Non - Traumatic 11.3 Section 12 Spine	343
3.3 Basic Sciences 3.4.1 Imaging 3.4.2 X-rays by Dr Tuli 3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 44 Syndromes 10.1 Congenital Disorders And Syndromes 5ection 11. Pediatrics 11.1 Traumatic 11.2 Non - Traumatic 11.3 Section 12 Spine	
3.4.1 Imaging 3.4.2 X-rays by Dr Tuli 3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 52 10.1 Congenital Disorders And Syndromes 52 11.1 Traumatic 11.2 Non - Traumatic 11.2 Non - Traumatic 52 11.1 Traumatic 11.2 Non - Traumatic 53 54 55 56 56 57 57 57 58 58 58 58 58 58 58 58 58 58 58 58 58	2
3.4.2 X-rays by Dr Tuli 3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 10.1 Congental Disorders And Syndromes Section 11. Pediatrics 11.1 Traumatic 11.2 Non - Traumatic 11.3 Section 12. Spine	
3.5 Implants And Instruments 3.6 Biostat 3.7 Orthotic And Prosthetics 3.8 Pathology Specimens 45 Section 11. Pediatrics 11.1 Traumatic 11.2 Non - Traumatic 153 Section 12. Spine	351
3.6 Biostat 118 11.1 Traumatic 3.7 Orthotic And Prosthetics 128 11.2 Non - Traumatic 3.8 Pathology Specimens 153 Section 12 Spine	
3.7 Orthotic And Prosthetics 128 11.2 Non - Traumatic 3.8 Pathology Specimens 153 Section 12 Spine	358
3.8 Pathology Specimens 153	365
Section 12 Shine	
J.5 WIIO 13 WIIO (Logorido di Ortaloparatio)	
3.10 Principles of Plating 165 12.1 Spine	395
Section 4. Clinical Examination and Signs Section 13. Arthroscopy and Sports medicin	
4.1 Upper Limb 175 13.1 Basic Arthroscopy	430
4.2 Lower Limb 203 13.2 Shoulders And Elbow	434
4.3 Spine 227 13.3 Hip, Knee and Ankle	443
Section 5. Arthroplasty Section 14. Adult Trauma	
5.1 Shoulder And Elbow 234 14.1 Upper Limb	458
5.2 Hip 239 14.2 Lower Limb	479
5.3 Knee And Ankle 257 14.3 Pelvis And Acetabulum	488
Section 6. Amputation Section 15. Nerve Injury	
16.1 Desirab and Norma Informa	493
15.2 Brachial Plexus	504
Section 7. Infection	
7.1 Osteomyelitis And Infective Arthritis 277	
7.2 Tuberculosis 288	

Section 16. Hand and Wrist	
16.1 Trauma	
6.2 Non-Transatio	513
Section 17. Foot and Ankle	
17.1 Traumatic	
17.2 Non - Traumatic	
Section 18. Rheumatology and Disorder	d Metabolic
18.1 Rheumatic Disorder	545
18.2 Metabolic Disorder	553
Section 19. Rehabilitation and	d Physiotherap
19.1 Renabilitation And Physiotherap	y 563
Section 20. DNB Pattern Ques	tions
20.1 OSCE Feb 2024	569
20.2 OSCE Sep 2023	578
20.5 OSCE May 2023	586
20.4 OSCE May 2022	593
20.5 OSCE Feb 2022	600
20.6 OSCE Oct 2021	606
20.7 OSCE Aug 2021	613
20 8 OSCE March 2021	620
20.9 OSCE July 2020	628

Section 1 Introduction

CHAPTER 1.1

The OSCE is crucial in determining the outcomes of the DNB examination.

The OSCE session includes: -

- A total of 20 OSCE stations.
- A total duration of 90 minutes.
- 4 minutes per station.
- A total score of 100 marks, with 5 marks awarded per station.

Key Points:

- OSCE is a dynamic, fast-moving challenge where each participant encounters a series of 20 OSCEs within a strict time limit of 4 minutes per scenario.
- The clock is constantly moving as questions are carefully reviewed to assess your comprehensive understanding within the given timeframe. It tests your ability to concentrate, knowledge, and quick thinking.

Varied Scenarios:

- Get ready for a variety of situations as each OSCE station presents a mix of related questions, and some stations may even have more than one slide.
- This detailed approach evaluates your skill in adapting and responding effectively to complex clinical situations.
- The examination's depth lies in its ability to reflect the realworld nature of OSCE practice.



Interval for Reflection:

- There is barely any time in between the stations. The
 answer sheet for that particular station is collected at the
 end of time for that station and one gets no chance to edit
 / add any points to the questions.
- Recognizing the intensity of the session, a 4-minute break
 is provided after every 7 OSCE stations. This short break
 acts as a mental reset, allowing participants to approach
 the next set of scenarios with a fresh perspective.

Answer Sheet - Data Management:

- After each OSCE, participants' answer sheets are converted into digital data and directly uploaded into the National Board Examinations (NBE) database.
- This immediate upload not only simplifies the evaluation process but also provides an instant snapshot of participants' performances.



Section 2 Mock OSCE

CHAPTER 2.1

OSCE Paper -1

STATION 1

A 46-year-old gentleman with history of sudden pop, give way in ankle and difficulty in walking while playing golf.

- 1. What is the most likely diagnosis?
- 2. What is the common zone of injury?
- 3. Name any 2 tests described to confirm the diagnosis?
- 4. What is the most common risk after a non-operative treatment?



STATION 2

- 1. Identify the gait with explanation?
- 2. How to measure the exact length of crutch?
- 3. Complication of mismatch length?
- 4. Mention prototypes of crutch gait.



STATION 3

A 35-year-old man is brought to the emergency with H/O RTA 1 hour ago. He is able to inform about his personal details but feels his breathing is laborious. He is unable to recollect events post-accident. He has obvious injuries on both lower limbs and a bleeding wound over left thigh. After continuing the evaluation, it was observed that the patient has BP of 90/60mmHg.

- 1. What is the first thing to be done?
- 2. What would be the grade of shock?
- 3. How would one take care of the shock?
- 4. Name any 4 adjuncts to the primary survey.

STATION 4

A 1-month-old female infant is brought in with asymmetry in the gluteal and thigh folds. The mother reports that the baby was born breech. You have a high suspicion for developmental dysplasia of the hip (DDH).

- 1. What specific physical examination maneuvers would you perform to assess for DDH in this infant?
- 2. Describe the expected findings if the infant has DDH.
- 3. What imaging modality would be most appropriate for confirming the diagnosis in this age group?
- 4. If DDH is confirmed, what would be the initial treatment of choice for this infant?

STATION 5

- 1. Name the surgical procedure shown in the figure below.
- 2. Name 4 indications of the procedure.
- Name the 4 biomechanical principles on which the procedure works.



A 36-year-old gentleman came with a history of twisting of ankle 2 days back. Patient is able to walk, has minimal swelling and pain in outer aspect of foot.

What is the most likely diagnosis?

- 1. How would you confirm the diagnosis?
- 2. What is etiology?
- 3. What is the treatment of the condition?



STATION 7

A 55-years-old man presented with inability to grip for 6 months following a major elbow sugery.



- 1. Identify the orthosis.
- 2. Mention the disease for which it is commonly used.

- © Conceptual Orthopedics
- 3. Enumerate the primary and secondary functional deficit.
- Mention the function or utility of the yellow rubber band attached.

STATION 8



- 1. Name the test shown
- 2. Describe how the test is performed?
- 3. In which condition the test is positive?

STATION 9

34-year male underwent following surgery





- 1. Identify the surgery done?
- 2. Briefly mention the procedure with explanation.
- 3. Find out any complication?

STATION 10

A 45-year-old lady with pain in heel and occasional paresthesia in the feet. On examination, she has tenderness medial to calcaneal tuberosity.



OSCE

- 1. What is the MRI finding?
- 2. What is the most probable diagnosis?
- 3. What is the most common differential diagnosis?
- 4. What's the treatment option for the condition?

STATION 11

This is a 35-year male with history of low back ache with intermittent radiculopathy. Patient is daily wages labour and has to perform heavy labour. SLR performed was 60 degree on the left side. Patient was advised an MRI by a treating physician elsewhere and this is the image.



- What does this IMAGE show? List the findings in this image?
- 2. What are the risk factors associated with such a condition?
- 3. What advice you would give him, and would you like to follow him up?

STATION 12

A 46-year-old patient presented after H/O RTA that he sustained 5 days ago. He feels a little uncomfortable moving his Right shoulder. The radiograph on presentation is as shown.

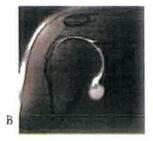


- 1. Diagnosis?
- 2. Name one clinical sign that you would elicit in this patient.
- 3. Name further radiological investigations that would be required in this patient.
- 4. Name any 2 complications that you would anticipate.

STATION 13

A 16-year-old male presents with bilateral shoulder pain. He also complains of repeated episodes of feeling of joint popping in and out during volleyball practice. He denies any traumatic injuries. During physical exam in the seated position there is a 2cm sulcus present with inferior traction on each arm. Her MRI images from her right shoulder are seen in figures A and B.





- 1. Diagnosis?
- 2. 4examination findings which will be seen in this patient
- 3. MRI findings seen in the above images

STATION 14



- 1. What is this procedure?
- 2. Name 2 indications of this procedure
- 3. Name the 2 portals being used?
- 4. What is the most common nerve injury associated with the portal marked with arrow?

STATION 15

12-year boy presented with painful restriction of hip movements for one year.





- 1. Image shows what radiological stage and why?
- 2. How to detect proximal trochanteric advancement?
- 3. Criteria for prognosis?
- 4. Ideal treatment in above case?

A 65-year-old lady had fallen off bicycle 3 months ago. Had taken treatment from alternative medicine. Currently complains of pain with restriction of elbow range of movements.

- 1. Diagnosis?
- 2. Common sites of occurrence in elbow?
- 3. What are the zones identified in this and describe them.
- 4. How would you treat this patient?

STATION 17

22-year male presented with palpable swelling and back pain in the last 2 months.





- 1. What is the diagnosis?
- 2. Name the palpable swelling associated with the condition?
- 3. What is spine at risk sign?

STATION 18

A 50-year-old man presented after H/O fall on outstretched hand. He C/O pain in the wrist and hand. The radiograph on presentation is as shown.



- 1. Diagnosis?
- 2. Name the structures that are injured in this
- 3. Name the most common complication associated with this
- 4. How would you treat this?

STATION 19



- 1. Describe the test
- 2. Significance
- 3. Mention other test for same pathology

STATION 20

You are an orthopedic surgeon evaluating a 4-year-old child in your clinic. The child's parents are concerned because they noticed that the child has been limping for the past few weeks and seems to have difficulty keeping up with their peers during playtime. The child has no significant medical history and has reached all developmental milestones on time.

- What specific physical examination findings would you look for to assess for DDH in this child?
- 2. What imaging studies would you order to confirm the diagnosis and assess the severity of the condition?
- 3. What treatment options would you consider for this child, given their age and presentation?
- 4. What are the potential complications of untreated DDH in this age group?

A 13-year-old child with pain in medial aspect of foot on prolonged standing and walking. The following are weight bearing AP and lateral x-rays



- 1. What is the diagnosis?
- 2. Name 2 radiological findings on the X-ray which suggest the diagnosis
- 3. Which is the most common ligament that is affected in this condition?
- 4. What will be the most appropriate surgical condition in this case?

STATION 2

A 35-year-old man had a motorcycle accident 5 years ago. He has paralysis of his deltoid and rotator cuff as the result the injury. His neurologic injury has not improved in the 5 years since the injury, but he does have some use of his hand and wrist.

- 1. What is the most appropriate treatment?
- 2. What are the prerequisites of the treatment?

3. What are the 3 other indications for the same procedure?

STATION 3

A 25-year-old man is brought with H/O RTA. His pelvic CT shows the following injury.

- 1. What is this injury known as?
- 2. What is the cause of this injury?
- 3. What other structures are usually injured along with this?
- 4. How would you treat this injury?



STATION 4

Given below is MRI image

- 1. Identify the marked lesion.
- 2. What is Pisani sign?
- 3. Various theories associated?
- 4. Management?





- 1. Identify the sign
- 2. Four clinical condition associated with it?
- 3. Clinical interpretation of this sign?
- 4. What are the different upper motor neuron signs that you know?

STATION 6



- 1. Identify the prosthesis.
- 2. Mention its parts.
- 3. Working principle.

STATION 7

A 50-year-old male with sudden onset of severe pain in left shoulder and inability to lift the left arm. After 6 weeks pain decreases but mobility of left shoulder restricted.

- 1. What is the most probable diagnosis?
- 2. Two-points in favor of diagnosis
- 3. How to confirm the diagnosis
- 4. Management?

STATION 8

A 32-year-old patient with foot injury due to fall from bicycle and has pain in midfoot.



- 1. What is the most likely diagnosis?
- 2. What is the sign called?
- 3. How would you classify this injury
- 4. What is the most appropriate treatment in this?

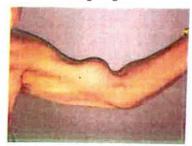
STATION 9



- 1. List the findings of the X-ray.
- 2. Name the condition.
- 3. List the causes leading to this condition.

STATION 10

A 25-year-old gym goer male, complaints of sudden pop sound heard in the arm while lifting weight.



OSCE

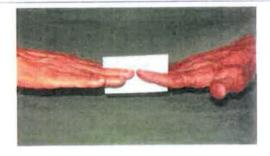
- 1. What is this sign in the image?
- 2. What is the etiology for the same?
- 3. Origin and insertion of biceps?
- 4. Management.
- 5. What are the functions of biceps?

STATION 11



- 1. Identify the pathology.
- 2. Grade and classification.
- 3. Management options.

STATION 12



- 1. Identify the test.
- 2. Name the nerve being tested.
- 3. Name the muscle tested.
- 4. Any 2 other test for the nerve.

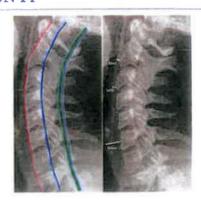
STATION 13

A 55-year-old man is brought with H/O RTA. His pelvic radiograph shows the following injury.



- 1. What is this injury?
- 2. What will be the attitude of the limb at presentation?
- 3. What other structure can be injured in this?
- 4. How would you treat this injury?

STATION 14



- 1. Name the line marked?
- 2. What is Canadian cervical spine rule for cervical spine injury?
- 3. Name 2 approaches for cervical spine fixation.

STATION 15



- 1. Name the test shown in image.
- 2. How is the test done?
- 3. Condition in which it is performed.
- 4. Mention other tests performed in this condition.

A 62-year-old female presents with chronic shoulder pain. She denies any recent or remote history of trauma or infection. A radiograph is provided in figure below.



- 1. Anatomical Diagnosis.
- 2. Most probable cause of the above condition.
- 3. Enumerate 2 other etiological causes of above condition.
- 4. Treatment options.

STATION 17

16-year-old boy with untreated deformity of foot.



- 1. Identify the deformities with their location of origin.
- 2. Suggest the etiology of the disease with explanation.
- 3. Mention 2 important point for counselling before treatment.
- 4. Two surgical treatment options.

STATION 18

A 67-year-old lady with a history of rheumatoid arthritis and deformity in all the toes.



- 1. How would you quantify the deformity in the big toe?
- 2. Name 2 structures which are tight on lateral side?
- 3. What is the most appropriate treatment for the big toe?
- 4. Name 2 common complications after surgical correction of these deformities.

STATION 19

A 67-year-old lady presented with C/O bilateral hip pain which is increased on exertion. There is no H/O trauma.

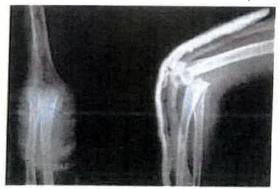


- 1. What is the likely diagnosis?
- 2. Name any 2 tests that would help in ascertaining the diagnosis.
- 3 .What are the parameters on which the treatment decisions are based?

STATION 20

39-year-old male presented with this x-ray of 4 weeks duration

- 1. Identify the fracture
- 2. Mention the differential diagnosis with explanation
- 3. Which nerve has maximum probability of injury
- 4. Surgical option for optimum functional recovery



OSCE Paper -3

STATION 1

- 1. Identify the procedure done in shown x-ray.
- 2. Indication of the procedure.
- 3. Describe principle of the procedure.
- 4. Mention disadvantages of the procedure.
- 5. Name alternate procedure for the condition.



STATION 2

46-year-old with injury due to fall from stairs.

- I. What is the diagnosis?
- 2. How would you classify fracture with the white arrow marked?
- 3. What is the most appropriate immediate treatment?
- 4 Name the incision used to approach these fractures?





STATION 3

- 65-Year-old female had alleged history of fall from stairs. Complains of severe back pain. Patient was assessed and posted for the surgery as shown:
- 1. Identify the procedure done likely underlying pathology associated.
- 2. Name 2 complication
- 3. Contraindication of the procedure?



STATION 4

A 19-year-old male presented with traumatic paraplegia of 3 weeks duration:



- 1. Identify the clinical sign?
- 2. Mention the steps for elicitation of this test
- Interpret the result of the test shown with its clinical significance

- 1. Name this deformity shown in given x-ray.
- 2. Name 2 conditions apart from OI, where this deformity can be seen?
- 3. What are the hallmark features of OI?
- 4. What is the fundamental pathology of OI, biochemically?
- 5. What is the preferred initial investigation in a patient with suspected OI
- 6. What are the general skeletal features seen?



STATION 6

A 37-year-old man tripped down a staircase. He is complaining of significant pain in his midfoot and finding difficulty in standing. A radiograph which was done shows the following-

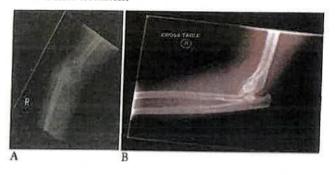
- 1. What is the most probable diagnosis?
- 2. What further investigations would be required to confirm the same?
- 3. What would be the treatment for this?



STATION 7

A 35-year-old female falls from stairs and sustains a closed injury to her right elbow without any evidence of neurovascular compromise. Plain radiographs are shown in Figures A and B

- 1. Diagnosis
- 2. Components of the injury
- 3. Next step
- 4. Ultimate treatment



STATION 8

This is a 2 months post-surgery follow up radiograph of a 38-year-old man.

- 1. What was the most likely indication for surgery?
- 2. Name one sign seen in this radiograph. What does it signify? (1+1)
- 3 .Name any 2 complications associated with this injury

