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Ranawat Orthopaedic Center, PLLC New York



11 TO 13 JANUARY 2024  
JW MARRIOTT PUNE



20TH  
ROC



PKC

Everything You Wanted to Know About Knee Surgery and more...



# Welcome MESSAGE

Dear Esteemed Colleague,

We are excited to invite you to the Twentieth Winter Meeting of the Ranawat Orthopaedic Conference (ROC) & Pune Knee Course (PKC). This will be a historic meeting where ROC – PKC will be combined for the first time and will be held on 11<sup>th</sup>, 12<sup>th</sup> & 13<sup>th</sup> January 2024 at the Hotel J W Marriott, Pune.

This fusion promises to be a spectacular intellectual feast. It will feature a diverse program encompassing live surgeries, case based discussions, symposiums and debates. Additionally, there will be Masterclasses in the mornings and Fireside Chats in the evenings.

Over the years, we have witnessed rapid advancements in Joint Replacement & Arthroscopy. While the foundational principles remain constant, the techniques and execution have significantly evolved. Our combined meeting aims to offer a comprehensive overview of these recent developments, providing in-depth analysis and guidance on future trajectories. Our primary objective is to explore how these breakthroughs can enhance patient outcomes.

Particular emphasis during this combined conference will be laid on Joint Preservation and the ever-challenging area of Peri Prosthetic Joint Infection. Also, there will be a special session on current status of Alignment of lower limb in Knee Joint Preservations surgeries and Knee Arthroplasty surgeries.

This event isn't just about academic growth; we also recognize the importance of camaraderie amongst all colleagues. Our gathering promises ample opportunities for socializing and networking, fostering collaborative relationships that can propel your practice forward.

We look forward to welcoming you to ROC-PKC 2024 that blends tradition with innovation and education.

Please join us in what promises to be 'The Conference of 2024'.

With Warm Regards,



**Dr. C. S. Ranawat**



**Dr. Amar S. Ranawat**



**Dr. Anil S. Ranawat**



**Dr. Parag Sancheti**



**Dr. Sachin Tapasvi**



**Dr. Ashok Shyam**



**Dr. Anshu Shekhar**



**Dr. Nilesh Kamat**



**Dr. Kailash Patil**



**Dr. Sunny Gugale**

# INTERNATIONAL FACULTY



**Dr. Alberto Carli**  
USA



**Dr. Amar S. Ranawat**  
USA



**Dr. Anil S. Ranawat**  
USA



**Dr. Camilo Helito**  
Brazil



**Dr. Cassandra Lee**  
USA



**Dr. Daniel Berry**  
USA



**Dr. Edward Mc Pherson**  
USA



**Dr. Jason Koh**  
USA



**Dr. Kristian Kley**  
Germany



**Dr. Marc Tompkins**  
USA



**Dr. Michael Henry**  
USA



**Dr. Nicolas Cance**  
France



**Dr. Peter D'Alessandro**  
Australia



**Dr. Taylor Reif**  
USA



**Dr. Thorsten Gehrke**  
Germany

## PKC FACULTY

### OVERSEAS FACULTY

- Dr. Anil Ranawat
- Dr. Camilo Helito
- Dr. Cassandra Lee
- Dr. Jason Koh
- Dr. Kristian Kley
- Dr. Marc Tompkins
- Dr. Nicolas Cance
- Dr. Peter d'Alessandro
- Dr. Taylor Reif

### NATIONAL FACULTY

- Dr. Arumugam S.
- Dr. Atul Patil
- Dr. Bhupesh Karthik
- Dr. Billy Paul Wilson
- Dr. Chetan Pradhan
- Dr. Chirag Thonse
- Dr. Dinshaw Pardiwala
- Dr. Miten Sheth
- Dr. Mukesh Laddha
- Dr. Rajeev Raman
- Dr. Sachin Tapasvi
- Dr. Sandeep Biraris
- Dr. Sheetal Gupta
- Dr. Sundararajan S. R.
- Dr. Vijayanand Lokhande
- Dr. Amit Laturkar
- Dr. Prathik Hegde
- Dr. Anshu Shekhar
- Dr. Nilesh Kamat

## ROC FACULTY

### OVERSEAS FACULTY

- Dr. Alberto Carli
- Dr. Amar S. Ranawat
- Dr. Anil Ranawat
- Dr. Daniel J. Berry
- Dr. Edward J. McPherson
- Dr. Michael W. Henry
- Dr. Taylor J. Reif
- Dr. Thorsten Gehrke

### NATIONAL FACULTY

- Dr. Ashok Shyam
- Dr. Akhilesh Yadav
- Dr. Alpesh Patel
- Dr. Anil Oommen
- Dr. Anoop Jhurani
- Dr. Arun Mullaji
- Dr. Ashit Shah
- Dr. Ashok Rajgopal
- Dr. Ateet B. Sharma
- Dr. Bharath Loganathan
- Dr. Buddhadeb Chatterjee
- Dr. Deepak Gautam
- Dr. Dhanasekara Raja
- Dr. Dimple Parekh
- Dr. Gurava Reddy
- Dr. Harish Bhende
- Dr. Hemant Wakankar
- Dr. IPS Oberoi
- Dr. Jayant Arora
- Dr. K. H. Sancheti
- Dr. Dr. K. T. Rajashekar
- Dr. Kailash Patil
- Dr. Kartik Shukla
- Dr. Kaushal Malhan
- Dr. Mangal Parihar
- Dr. Nandu Laud
- Dr. Narayan Hulse
- Dr. Narendra Reddy
- Dr. Natesan Rajkumar
- Dr. P. Dhanasekara Raja
- Dr. Parag Sancheti
- Dr. Pradeep Bhosale
- Dr. Prakash V. Patil
- Dr. Rajesh Maniar
- Dr. Rohit Luthra
- Dr. S. V. Vaidya
- Dr. Sanjeev Jain
- Dr. Santosh Shetty
- Dr. Shrinand V. Vaidya
- Dr. Shubhranshu Mohanty
- Dr. Sunil Rajan
- Dr. Sunny Gugale
- Dr. Vijay Bose
- Dr. Adarsh Annapareddy
- Dr. Amite P. Aggarwal
- Dr. Anup Khare
- Dr. Chandrashekar P.
- Dr. C. S. Yadav
- Dr. Dheeraj Dubey
- Dr. Dilbans Pandher
- Dr. Hemant Sharma
- Dr. Jagadeesh Nallamothe
- Dr. J. V. Srinivas
- Dr. Karthik Reddy
- Dr. Karthik Subramaniam
- Dr. Mohammed Hasil
- Dr. Mrinal Sharma
- Dr. Mudit Khanna
- Dr. Narendra Parmer
- Dr. Neeraj Adkar
- Dr. Prashant Patare
- Dr. Pritam Agarwal
- Dr. Raja Bhaskar
- Dr. Ramesh Sen
- Dr. Ramneek Mahajan
- Dr. Rushay Bhalodia
- Dr. Shyam Mukhi
- Dr. Shrinivas Thati
- Dr. Siddharth Yadav
- Dr. Subramaniam Arumugam
- Dr. Suhas Masilamani
- Dr. Sujoy Bhattacharjee
- Dr. Sunil Kini
- Dr. Sunil Kumar Dash
- Dr. Unmesh Mahajan
- Dr. Vaibhav Bagaria
- Dr. Vijay Goni
- Dr. Vijay Kumar
- Dr. Vinay Joshi
- Dr. Vivek Logani
- Dr. Dhiraj Marothi
- Dr. J. A Pachore
- Dr. Kartik Patel
- Dr. Sahil Sanghavi
- Dr. Sanket Diwanji
- Dr. Suhas Kamble
- Dr. Vidyanand Raut
- Dr. Sameer Ali
- Dr. Mahesh Kulkarni

# PKC MASTER CLASSES (7.15 AM - 8.30 AM)

(ONLY 50 seats per session per day)



**FRIDAY, JANUARY 12, 2024**

- F1: Primary ACLR
- F2: Revision ACLR
- F3: PCL Reconstruction
- F4: Treatment of Cartilage Injuries
- F5: Collateral Ligament Injuries – Medial and Lateral Side
- F6: Osteotomy and Alignment



**SATURDAY, JANUARY 13, 2024**

- S1: Periprosthetic Fractures
- S2: Primary Total Hip Replacement
- S3: Revision Total Hip Replacement
- S4: Complex Knee Replacement
- S5: Revision Total Knee Replacement
- S6: Partial Knee Replacement

- Master Class can be opted only by delegates registering for ROC + PKC 2024. You CANNOT register for Master Class alone.
- You can select any one session per day.
- Master Class will start at 7.15 am upto 8.30 am.
- Venue: 1<sup>st</sup> Floor, Hotel JW Marriott

## LIVE SURGERY CO-ORDINATORS



**Dr. Amit Laturkar**



**Dr. Prathik Hegde**



**Dr. Sushrut Badve**



**Dr. Vijayanand Lokhande**



# PKC MASTERCLASS

FRIDAY, JANUARY 12<sup>TH</sup>, 2024

## F1: PRIMARY ACLR

**Moderator:** Dr. Sandeep Biraris

**Chairpersons:** Dr. Marc Tompkins, Dr. Arumugam S.

|                   |  |
|-------------------|--|
| 7:30 AM - 7:40 AM | Current understanding of ACL anatomy: <b>Dr. Marc Tompkins</b>       |
| 7:40 AM - 7:50 AM | Grafts for Primary ACL Reconstruction: <b>Dr. Arumugam S.</b>        |
| 7:50 AM - 8:00 AM | Femoral and Tibial Drilling Techniques: <b>Dr. Bhupesh Karthik</b>   |
| 8:00 AM - 8:10 AM | Is there an ideal method of Graft Fixation: <b>Dr. Marc Tompkins</b> |
| 8:10 AM - 8:20 AM | Return to sports after ACL Reconstruction: <b>Dr. Arumugam S.</b>    |
| 8:20 AM - 8:30 AM | Discussion   |

## F2: REVISION ACLR

**Chairpersons:** Dr. Anil Ranawat, Dr. Nicolas Cance

|                   |  |
|-------------------|--|
| 7:30 AM - 7:40 AM | Planning and Work-up for Revision ACL Reconstruction: <b>Dr. Anil Ranawat</b>              |
| 7:40 AM - 7:50 AM | Stiffness and Arthrofibrosis: <b>Dr. Nicolas Cance</b>                                     |
| 7:50 AM - 8:00 AM | Tackling Dilated Tunnels: <b>Dr. Anil Ranawat</b>  |
| 8:00 AM - 8:10 AM | Extra-articular anterolateral procedures in Revision ACL surgery: <b>Dr. Nicolas Cance</b> |
| 8:10 AM - 8:20 AM | ACL Revision with De-flexion Osteotomy: <b>Dr. Nicolas Cance</b>                           |
| 8:20 AM - 8:30 AM | Discussion   |

## F3: PCL RECONSTRUCTION

**Moderator:** Dr. Rajeev Raman

**Chairpersons:** Dr. Dinshaw Pardiwala, Dr. Peter d'Alessandro

|                   |  |
|-------------------|--|
| 7:30 AM - 7:40 AM | Relevant anatomy of the PCL: <b>Dr. Dinshaw Pardiwala</b>                      |
| 7:40 AM - 7:50 AM | Non-operative treatment for PCL injured knee: <b>Dr. Peter d'Alessandro</b>    |
| 7:50 AM - 8:00 AM | Single bundle PCL R – Indications and Technique: <b>Dr. Sheetal Gupta</b>      |
| 8:00 AM - 8:10 AM | Double bundle PCL R – Indications and Technique: <b>Dr. Peter d'Alessandro</b> |
| 8:10 AM - 8:20 AM | Revision PCL R: <b>Dr. Dinshaw Pardiwala</b>                                   |
| 8:20 AM - 8:30 AM | Discussion   |



# PKC MASTERCLASS

FRIDAY, JANUARY 12<sup>TH</sup>, 2024

## F4: TREATMENT OF CARTILAGE INJURIES

**Moderator:** Dr. Chirag Thonse

**Chairpersons:** Dr. Jason Koh, Dr. Cassandra Lee

|                   |   |
|-------------------|---|
| 7:30 AM - 7:40 AM | All you need to know about imaging for cartilage injuries: <b>Dr. Cassandra Lee</b> |
| 7:40 AM - 7:50 AM | Marrow Stimulation Techniques: <b>Dr. Jason Koh</b>                                 |
| 7:50 AM - 8:00 AM | Osteochondral cylinder transfer: <b>Dr. Billy Paul Wilson</b>                       |
| 8:00 AM - 8:10 AM | Autologous particulate cartilage: <b>Dr. Cassandra Lee</b>                          |
| 8:10 AM - 8:20 AM | Orthobiologics in cartilage injuries: <b>Dr. Jason Koh</b>                          |
| 8:20 AM - 8:30 AM | Discussion  |

## F5: COLLATERAL LIGAMENT INJURIES – MEDIAL AND LATERAL SIDE

**Moderator:** Dr. Miten Sheth

**Chairpersons:** Dr. Camilo Helito, Dr. Sundararajan S. R.

|                   |   |
|-------------------|---|
| 7:30 AM - 7:40 AM | Anatomy and biomechanics of the medial side: <b>Dr. Miten Sheth</b>               |
| 7:40 AM - 7:50 AM | Primary Repair and Augmentation of PMC injuries: <b>Dr. Camilo Helito</b>         |
| 7:50 AM - 8:00 AM | MCL Reconstruction - How and why?: <b>Dr. Sundararajan S. R.</b>                  |
| 8:00 AM - 8:10 AM | Anatomy and Biomechanics of the PLC: <b>Dr. Camilo Helito</b>                     |
| 8:10 AM - 8:20 AM | Fibular and Tibial based reconstruction techniques: <b>Dr. Sundararajan S. R.</b> |
| 8:20 AM - 8:30 AM | Discussion  |

## F6: OSTEOTOMY AND ALIGNMENT

**Moderator:** Dr. Mukesh Laddha

**Chairpersons:** Dr. Kristian Kley, Dr. Sachin Tapasvi

|                   |  |
|-------------------|--|
| 7:30 AM - 7:45 AM | Indications & Planning for HTO / DFO: <b>Dr. Kristian Kley</b>   |
| 7:45 AM - 8:00 AM | Executing an HTO / DFO: <b>Dr. Taylor Reif</b>                   |
| 8:00 AM - 8:10 AM | Slope Alteration Osteotomies: <b>Dr. Sachin Tapasvi</b>          |
| 8:10 AM - 8:20 AM | Common complications and their bailout: <b>Dr. Kristian Kley</b> |
| 8:20 AM - 8:30 AM | Discussion   |



# PKC MASTERCLASS

SATURDAY, JANUARY 13<sup>TH</sup>, 2024

## S1: PERIPROSTHETIC FRACTURES

**Chairperson:** Dr. Sachin Tapasvi

|                   |   |
|-------------------|---|
| 7:30 AM - 7:40 AM | Peri-prosthetic fractures around the Hip – Fixation - When and how?:<br><b>Dr. Chetan Pradhan</b>               |
| 7:40 AM - 7:50 AM | Peri-prosthetic fractures around the Hip – Replacement - When and how?:<br><b>Dr. Dhanasekara Raja</b>          |
| 7:50 AM - 8:00 AM | Peri-prosthetic fractures around the Distal Femur – Fixation - When and how?:<br><b>Dr. Vijayanand Lokhande</b> |
| 8:00 AM - 8:10 AM | Peri-prosthetic fractures around the Distal Femur – Replacement - When and how?:<br><b>Dr. Sachin Tapasvi</b>   |
| 8:10 AM - 8:20 AM | Peri-prosthetic fractures around the Tibia: <b>Dr. Atul Patil</b>   |
| 8:20 AM - 8:30 AM | Discussion  |

## S2: PRIMARY TOTAL HIP REPLACEMENT

**Chairperson:** Dr. K. T. Rajashekar

|                   |  |
|-------------------|--|
| 7:30 AM - 7:40 AM | Approaches – Posterior, lateral, direct anterior - Which one is the best for my patient?: <b>Dr. Abhijit Agashe</b>        |
| 7:40 AM - 7:50 AM | Basics of THR – Horizontal offset, vertical offset, combined anteversion – Why are they important?: <b>Dr. Anil Oommen</b> |
| 7:50 AM - 8:00 AM | Preventing limb length discrepancy: <b>Dr. Sahil Sanghavi</b>  |
| 8:00 AM - 8:10 AM | How do I choose my femoral stem?: <b>Dr. Natesan Rajkumar</b>  |
| 8:10 AM - 8:20 AM | How do I choose my acetabular cup?: <b>Dr. K. T. Rajasekhar</b>  |
| 8:20 AM - 8:30 AM | Discussion   |

## S3: REVISION TOTAL HIP REPLACEMENT

**Chairperson:** Dr. Vijay Bose

|                   |   |
|-------------------|---|
| 7:30 AM - 7:40 AM | Exposure techniques – ETO, Trans-femoral - How do I choose?: <b>Dr. Sunil Rajan</b> |
| 7:40 AM - 7:50 AM | Minimizing bone loss during component extraction: <b>Dr. S. V. Vaidya</b>           |
| 7:50 AM - 8:00 AM | Algorithm to managing femoral bone loss: <b>Dr. Harish Bhende</b>                   |
| 8:00 AM - 8:10 AM | Algorithm to managing acetabular bone loss: <b>Dr. Pradeep Bhosale</b>              |
| 8:10 AM - 8:20 AM | Tackling the unstable THR: <b>Dr. Vijay Bose</b>                                    |
| 8:20 AM - 8:30 AM | Discussion  |





# PKC MASTERCLASS

SATURDAY, JANUARY 13<sup>TH</sup>, 2024

## S4: COMPLEX KNEE REPLACEMENT

**Chairperson:** Dr. Mahesh Kulkarni

|                   |  |
|-------------------|--|
| 7:30 AM - 7:40 AM | TKR in the stiff knee: <b>Dr. Sunny Gugale</b>                 |
| 7:40 AM - 7:50 AM | TKR in neuropathic arthropathy: <b>Dr. Mahesh Kulkarni</b>     |
| 7:50 AM - 8:00 AM | TKR in fixed valgus knee: <b>Dr. Shubhranshu Mohanty</b>       |
| 8:00 AM - 8:10 AM | TKR in extra articular deformities: <b>Dr. Vaibhav Bagaria</b> |
| 8:10 AM - 8:20 AM | TKR post UKR / HTO: <b>Dr. IPS Oberoi</b>                      |
| 8:20 AM - 8:30 AM | Discussion   |

## S5: REVISION TOTAL KNEE REPLACEMENT

**Chairperson:** Dr. Ashok Rajgopal

|                   |  |
|-------------------|--|
| 7:30 AM - 7:40 AM | Exposure techniques in Revision TKR: <b>Dr. Kailash Patil</b>        |
| 7:40 AM - 7:50 AM | Managing Bone Defects: <b>Dr. Hemant Wakankar</b>                    |
| 7:50 AM - 8:00 AM | Choosing your constraint in Revision TKR: <b>Dr. Gurava Reddy</b>    |
| 8:00 AM - 8:10 AM | Cemented or uncemented stems?: <b>Dr. Rajesh Maniar</b>              |
| 8:10 AM - 8:20 AM | Managing the deficient extensor mechanism: <b>Dr. Ashok Rajgopal</b> |
| 8:20 AM - 8:30 AM | Discussion   |

## S6: PARTIAL KNEE REPLACEMENT

**Chairperson:** Dr. Arun Mullaji

|                   |   |
|-------------------|---|
| 7:30 AM - 7:40 AM | Indications for an UKR: <b>Dr. Buddhadeb Chatterjee</b> |
| 7:40 AM - 7:50 AM | Mobile bearing UKR: <b>Dr. Arun Mullaji</b>             |
| 7:50 AM - 8:00 AM | Fixed bearing UKR: <b>Dr. Anoop Jhurani</b>             |
| 8:00 AM - 8:10 AM | Lateral UKR: <b>Dr. Dimple Parekh</b>                   |
| 8:10 AM - 8:20 AM | Patello femoral replacement: <b>Dr. Arun Mullaji</b>    |
| 8:20 AM - 8:30 AM | Discussion  |



# ROC SPORTS DAY POWERED BY PKC

## DAY 1 – THURSDAY, JANUARY 11<sup>TH</sup>, 2024

### SPORTS DAY POWERED BY PUNE KNEE COURSE

7:55 AM - 8:05 AM

#### WELCOME ADDRESS AND PLAN FOR THE DAY

**Dr. Anil Ranawat, Dr. Sachin Tapasvi, Dr. Parag Sancheti, Dr. Ashok Shyam**

8:05 AM - 9:00 AM

#### LIVE SURGERY 1 **LIVE**

Combined Anatomic ACL Reconstruction with ALL Reconstruction: Covering all bases  
Surgeon: **Dr. Camilo Helito**, Brazil

Live Surgery Moderators: **Dr. Anil Ranawat, Dr. Parag Sancheti, Dr. Arumugam S.**

9:00 AM - 9:15 AM

#### KEYNOTE 1

The ACL does not work alone - With a little help from my friends

Chairpersons: **Dr. Anil Ranawat, Dr. Parag Sancheti**

Keynote Speaker: **Dr. Anil Ranawat**, USA

9:15 AM - 10:00 AM

#### OPTIMIZING YOUR PRIMARY ACL-R

Let's discuss optimal graft choice and graft fixation. Let's optimize surgery in difficult situations – Hyperextension, hyperlaxity, constitutional varus, high-grade pivot shift, obesity

Panel Moderator: **Dr. Dinshaw Pardiwala**, India

Panelists: **Dr. Jason Koh, Dr. Nicolas Cance, Dr. Marc Tompkins, Dr. Cassandra Lee, Dr. Arumugam S., Dr. Billy Paul Wilson**

10:00 AM - 10:45 AM

#### LIVE SURGERY 2 **LIVE**

Anatomic ACL Reconstruction with Bi-meniscal Repair

Surgeon: **Dr. Peter d'Alessandro**, Australia

Live Surgery Moderators: **Dr. Cassandra Lee, Dr. Billy Paul Wilson, Dr. Sheetal Gupta**

10:45 AM - 11:15 AM

#### MENISCUS REPAIR AROUND THE GLOBE

Let's understand the ideal timing of meniscus repair, when to repair and when to resect. Do medial and lateral tears behave differently? Does rehabilitation alter your results?

Panel Moderator: **Dr. Sundararajan S. R.**, India

Panelists: **Dr. Camilo Helito, Dr. Anil Ranawat, Dr. Jason Koh, Dr. Bhupesh Karthik, Dr. Sandeep Biraris**

11:15 AM - 11:30 AM

#### KEYNOTE 2

Enhancement of Meniscus Repairs: A little extra effort goes a long way

Chairpersons: **Dr. Sachin Tapasvi, Dr. Sundararajan S. R.**

Keynote Speaker: **Dr. Jason Koh**, USA



# ROC SPORTS DAY POWERED BY PKC

## DAY 1 – THURSDAY, JANUARY 11<sup>TH</sup>, 2024

|                     |  |
|---------------------|--|
| 11:30 AM - 11:45 AM | <b>KEYNOTE 3</b><br>Reviving the Cushion - Meniscus Allograft Transplantation: Unveiling the potential<br>Chairpersons: <b>Dr. Sachin Tapasvi, Dr. Sundararajan S. R.</b><br>Keynote Speaker: <b>Dr. Cassandra Lee, USA</b>  |
| 11:45 AM - 12:30 PM | <b>LIVE SURGERY 3</b> <span>LIVE</span><br>Medial meniscus root repair with Corrective Osteotomy: It's about restoring the anatomy<br>Surgeon: <b>Dr. Dinshaw Pardiwala, India</b><br>Live Surgery Moderators: <b>Dr. Peter d'Alessandro, Dr. Miten Sheth</b>  |
| 12:45 PM - 1:30 PM  | <b>LUNCH</b>   |
| 1:30 PM - 2:30 PM   | <b>LIVE SURGERY 4</b> <span>LIVE</span><br>Combined PCL-R with PLC-R: Restore biomechanics for a perfect result<br>Surgeon: <b>Dr. Sachin Tapasvi, India</b><br>Live Surgery Moderators: <b>Dr. Camilo Helito, Dr. Bhupesh Karthik, Dr. Sandeep Biraris</b>  |
| 2:30 PM - 2:45 PM   | <b>KEYNOTE 4</b><br>Planning your Correction: Failure to Plan is Planning to Fail<br>Chairpersons: <b>Dr. Sachin Tapasvi, Dr. Parag Sancheti</b><br>Keynote Speaker: <b>Dr. Kristian Kley, Germany</b>   |
| 2:45 PM - 3:00 PM   | <b>KEYNOTE 5</b><br>Decoding the enigma of Knee Dislocations<br>Chairpersons: <b>Dr. Sandeep Biraris, Dr. Rajeev Raman</b><br>Keynote Speaker: <b>Dr. Peter d'Alessandro, Australia</b>  |
| 3:00 PM - 3:30 PM   | <b>COMBINED KNEE INSTABILITY: CONFUSION TO CONFIDENCE</b><br>Multi-ligament knee injuries can present in a myriad of patterns. Let's understand the nuances with practical case-based scenarios.<br>Panel Moderator: <b>Dr. Dinshaw Pardiwala, India</b><br>Panelists: <b>Dr. Camilo Helito, Dr. Peter d'Alessandro, Dr. Anil Ranawat, Dr. Sundararajan S. R., Dr. Rajeev Raman, Dr. Arumugam S.</b> |
| 3:30 PM - 4:15 PM   | <b>LIVE SURGERY 5</b> <span>LIVE</span><br>Double bundle MPFL-R +/- TTO: Don't leave the OR with a job half done<br>Surgeon: <b>Dr. Marc Tompkins, USA</b><br>Live Surgery Moderators: <b>Dr. Nicolas Cance, Dr. Dinshaw Pardiwala, Dr. Sundararajan S. R.</b>   |



# ROC SPORTS DAY POWERED BY PKC

## DAY 1 – THURSDAY, JANUARY 11<sup>TH</sup>, 2024

4:15 PM - 4:30 PM

### KEYNOTE 6

High Grade J Sign: What does it mean and how do I treat it?

Chairpersons: **Dr. Sachin Tapasvi, Dr. Parag Sancheti**

Keynote Speaker: **Dr. Nicolas Cance**, France

4:30 PM - 5:00 PM

### PATELLO FEMORAL INSTABILITY

Challenging situations that need accurate solutions – First time dislocation in an elite athlete, Patellar instability with hyper extension, Torsional deformities, Patellar dislocation with osteochondral fractures, Patellar dislocation in flexion.

Panel Moderator: **Dr. Sachin Tapasvi**, India

Panelists: **Dr. Marc Tompkins, Dr. Nicolas Cance, Dr. Jason Koh, Dr. Cassandra Lee, Dr. Sheetal Gupta, Dr. Sundararajan S. R.**

5:00 PM - 6:00 PM

### LIVE SURGERY 6 LIVE

Double Level Osteotomy for Genus Varus: Restoration of Alignment is necessary for joint preservation

Surgeon: **Dr. Kristian Kley**, Germany

Live Surgery Moderators: **Dr. Taylor Reif, Dr. Jason Koh, Dr. Chirag Thonse**

6:00 PM - 6:30 PM

### WHO NEEDS AN OSTEOTOMY, WHO NEEDS AN UKR, AND, WHO NEEDS A TKR?

Daily clinical dilemmas that need evidence, not dogma

Panel Moderator: **Dr. Anil Ranawat**, USA

Panelists: **Dr. Peter d'Alessandro, Dr. Marc Tompkins, Dr. Taylor Reif, Dr. Sachin Tapasvi, Dr. Mukesh Laddha, Dr. Miten Sheth, Dr. Chirag Thonse**

7:00 PM - 8:00 PM

### FIRE SIDE CHATS: COMPANY SPONSORED SESSIONS

Up close with the brightest brains and cutting-edge technology

Meril Meeting Room 1

Smith & Nephew Meeting Room 3

Arthrex Meeting Room 4

Zimmer Meeting Room 5

8:00 PM ONWARDS

### WELCOME DINNER - POOL SIDE



# ROC PROGRAM

**DAY 2 - FRIDAY JANUARY 12<sup>TH</sup>, 2024**

8:50 AM - 8:55 AM

**WELCOME REMARKS: DR. AMAR S. RANAWAT**

8:55 AM - 9:10 AM

**LIGHTING CEREMONY - MAHURAT CEREMONY**

**Dr. Nandu Laud, Dr. K. H. Sancheti, Dr. Amar S. Ranawat, Dr. Anil Ranawat, Dr. Parag Sancheti, Dr. Sachin Tapasvi, Dr. Ashok Shyam**

Tradition is the Gold Standard

## GENERAL TOPIC

9:10 AM - 9:32 AM

**SESSION I: JOINT PRESERVATION & PARTIAL KNEE REPLACEMENT**

Moderator: **Dr. Anil Ranawat**

Moderator's Panel Discussion Guide

Panel Members: **Dr. Narayan Hulse, Dr. Anoop Jhurani, Dr. Arun Mullaji, Dr. Mangal Parihar, Dr. Taylor J. Reif, Dr. Parag Sancheti, Dr. Kartik Shukla, Dr. Sachin Tapasvi**

- Deformity Correction, HTO & Uni Compartmental
  - o What are your ideal indications?
  - o What is your time to return to full activity?
  - o What is the highest activity level patients can achieve?
  - o What do you tell your patients about longevity?

9:32 AM - 9:52 AM

Discussion

9:52 AM - 10:02 AM

**KEYNOTE LECTURE: DEFORMITY CORRECTION AND OSSEOINTEGRATION**

Moderator: **Dr. Amar S. Ranawat**

When saving the knee isn't possible: Fusion or Prosthetic Limb Reconstruction

Keynote Speaker: **Dr. Taylor J. Reif**

10:02 AM - 10:17 AM

Discussion

## KNEE TOPICS

10:17 AM - 10:38 AM

**SESSION II: PERFORMING A PRIMARY TKA**

Moderator: **Dr. Daniel J. Berry**

Moderator's Panel Discussion Guide

Panel Members: **Dr. Sanjeev Jain, Dr. Rajesh Maniar, Dr. Arun Mullaji, Dr. Alpesh Patel, Dr. Prakash V. Patil, Dr. Ashok Rajgopal, Dr. Kailash Patil, Dr. Parag Sancheti**

- Preoperative Decision Making, Screening and Patient Optimization
- Perioperative Antibiotic, Anticoagulation, Pain and Blood Management



# ROC PROGRAM

**DAY 2 - FRIDAY JANUARY 12<sup>TH</sup>, 2024**

- Key Decisions:
  - Balancing Techniques - Measured Resection Vs Gap Balancing and Implant Rotation
  - Implant Fixation Choices
  - Patellar Management
  - Postoperative Instructions: Antibiotic Prophylaxis, Return to Activities and Dislocation Precautions

Case Presentations

10:38 AM - 10:44 AM Robotics may not always be accurate - It is necessary to master the basics:  
**Dr. Ashit Shah**

10:44 AM - 10:50 AM Balancing of Collateral Ligaments in Extension & Flexion: How do I do it?  
**Dr. Ateet Sharma**

10:50 AM - 11:10 AM Discussion

## **SESSION III: MANAGEMENT OF THE COMPLEX PRIMARY ARTHRITIC KNEE**

Moderator: **Dr. Ashok Rajgopal**

11:10 AM - 11:35 AM Moderator's Panel Discussion Guide

Panel Members: **Dr. Jayant Arora, Dr. Daniel J. Berry, Dr. Deepak Gautam, Dr. Rajesh Maniar, Dr. Mahesh Kulkarni, Dr. Amar S. Ranawat, Dr. Narendra Reddy, Dr. Shrinand V. Vaidya**

- Surgical Approach - Knee with previous incision
- Post Trauma Arthritis - Dealing with Trauma Implants, Bone Loss & Deformity
- Management of Fractures caused by: Trauma, Osteoporosis (Vit. D Deficiency), etc.
- Deformity Management - Varus, Valgus, FFD, with ligament instability
- Soft Tissue Balancing & Constrained Implants
- Extra Articular Deformity
- Stiff Knee, Post Patellectomy & Quadriceps Deficiency

### **Case Presentations**

11:35 AM - 11:41 AM Severe Valgus Deformity: **Dr. P. Dhanasekara Raja**

11:41 AM - 11:47 AM Correction of Extraarticular Deformity: **Dr. Anoop Jhurani**

11:47 AM - 11:53 AM Management of Stress Fracture in TKA - Lessons Learned: **Dr. Bharath Loganathan**

11:53 AM - 11:58 AM Complex Primary with severe bone defects: **Dr. Akhilesh Yadav**

Severe Varus Deformity with severe medial tibial condyle bone loss on both knees

11:58 AM - 12:20 PM Discussion



# ROC PROGRAM

DAY 2 - FRIDAY JANUARY 12<sup>TH</sup>, 2024

## SESSION IV: PERIPROSTHETIC JOINT INFECTION (PJI) - KNEE ARTHROPLASTY

Moderator: **Dr. Alberto Carli**

12:40 PM - 1:00 PM

Moderator's Panel Discussion Guide

Panel Members: **Dr. Thorsten Gehrke, Dr. Michael W. Henry, Dr. Kaushal Malhan, Dr. Edward J. McPherson, Dr. Arun Mullaji, Dr. Ashok Rajgopal, Dr. Gurava Reddy, Dr. Santosh Shetty, Dr. Hemant Wakankar**

- **Controversies in infection prevention**

- o Do experts have a BMI cut-off?
- o Do experts decolonize MRSA?
- o How is the OR set-up?
- o Sutures Vs. Staples
- o Do you administer antibiotics for extended period?

- **Controversies in infection diagnosis**

- o What guidelines should we use?
- o Next Generation Sequencing (NGS) - Is it the solution?
- o What is the role of Alpha Defensin (Antimicrobial Peptide)? How do you tackle culture negative results?
- o How do you approach reimplantation?
- o Technical pearls

1:00 PM - 1:06 PM

**Antibiotics - Current State-of-the-Art: Dr. Michael W. Henry**

What's new... and what about suppression

1:10 PM - 2:10 PM

**LUNCH**

## SESSION IV: PERIPROSTHETIC JOINT INFECTION (PJI) - KNEE ARTHROPLASTY

Moderator: **Dr. Edward J. McPherson**

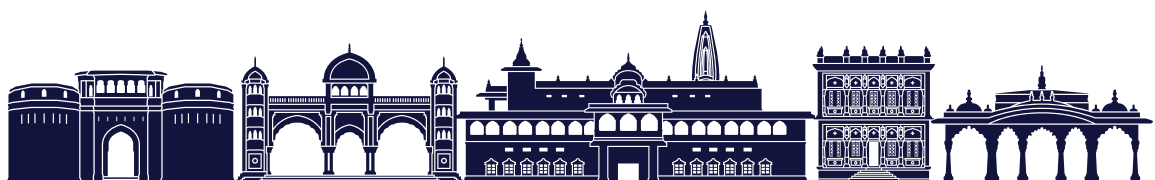
2:10 PM - 2:30 PM

Moderator's Panel Discussion Guide

Panel Members: **Dr. Daniel J. Berry, Dr. Alberto Carli, Dr. Michael W. Henry, Dr. Rohit Luthra, Dr. Dilbans S. Pandher, Dr. Amar S. Ranawat, Dr. Taylor J. Reif, Dr. Sachin Tapasvi**

- **Treating PJI in the Knee**

- o DAIR (debridement, antibiotics, and implant retention)
  - What do you do?
    - Single Vs. Two-Stage
    - 1.5 Stage



# ROC PROGRAM

## DAY 2 - FRIDAY JANUARY 12<sup>TH</sup>, 2024

- o Technical Pearls for a successful spacer
- o How do you close complex wounds?
- o How do you deal with salvage situations, fusion, etc.

### Case Presentations

2:30 PM - 2:36 PM

#### Infected TKR Treated by 2 Stage Revision: **Dr. B. D. Chatterjee**

- Stage 1 - Articulating Antibiotic Spacer
- Stage 2 - Sleeves for Large Metaphyseal Defects

2:36 PM - 2:42 PM

#### Treatment of Prosthetic Knee Joint Infection w/ *Klebsiella*: **Dr. Diraj Marothi Jain**

- Now what??

2:42 PM - 3:10 PM

Discussion

### SESSION V: ALIGNMENT CONTROVERSY IN KNEE ARTHROPLASTY

Moderator: **Dr. Rajesh Maniar**

3:10 PM - 3:30 PM

Moderator's Panel Discussion Guide

Panel Members: **Dr. Harish S. Bhende, Dr. Mudit Khanna, Dr. Suhas Masilamani, Dr. Edward J. McPherson, Dr. Hemant Wakankar, Dr. C. S. Yadav, Dr. Arun Mullaji**

Why have an alignment philosophy and then restrict it?

- Mechanical Alignment (MA): The objective is to cut the femur and tibia perpendicular to the mechanical axis in the coronal plane
- Inverse Kinematic Alignment (IKA): The objective is to restore the native tibial anatomy by removing bone & cartilage corresponding to the implant thickness on the medial & lateral tibial condyle, therefore the native tibial joint obliquity (JLO) is restored
- Kinematic Alignment (KA): The objective is restoring the joint line through anatomic resurfacing, hence aligning the components to the flexion / extension axis of the native knee. The knee is balanced by recreating the angle of the native tibia
- Restricted Kinematic Alignment (RKA): Applying boundaries to KA principles to prevent extreme implant positions in patients with an atypical anatomy

### SESSION V: CASE PRESENTATIONS

3:30 PM - 3:36 PM

Mechanical Alignment - A case discussion: **Dr. Unmesh Mahajan**

3:36 PM - 3:42 PM

Bilateral w/ Inverse Kinematic Alignment Technique: **Dr. Sunil Kumar Dash**

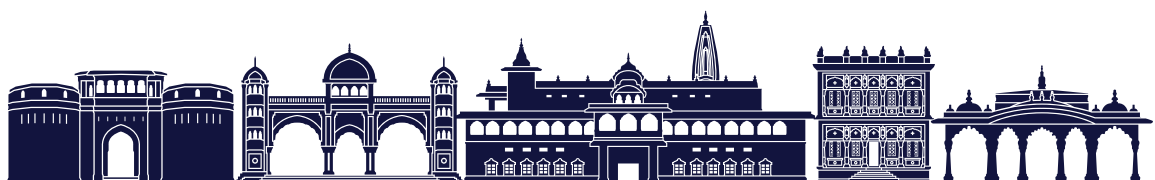
3:42 PM - 3:48 PM

FFD w/ 15° Varus Deformity - How to correct w/o additional bone cuts and soft tissue releases: **Dr. Anoop Jhurani**

Unlearn mechanical alignment and learn kinematic alignment

3:48 PM - 4:05 PM

Discussion





# ROC PROGRAM

**DAY 2 - FRIDAY JANUARY 12<sup>TH</sup>, 2024**

## **SESSION VI: THE USE OF A ROBOT IN KNEE REPLACEMENT SURGERY**

Moderator: **Dr. Daniel J. Berry**

4:05 PM - 4:30 PM

Moderator's Panel Discussion Guide

Panel Members: **Dr. Vaibhav Bagaria, Dr. Alberto Carli, Dr. Chandrashekar P, Dr. Thorsten Gehrke, Dr. Anoop Jhurani, Dr. Mahesh Kulkarni, Dr. Rajesh Maniar, Dr. Amar S. Ranawat, Dr. Sachin Tapasvi**

- Which cases could benefit most from the use of a robot?
- What is the criteria for referral to a surgeon skilled in robotics?
- Under what circumstances is it worth learning robotic methods?
- How do you and your hospital make the economics work?
- What are the main problems you have encountered when starting to use robotics?
- Does the robot change the outcome of TKA for most patients

4:30 PM - 5:00 PM

Discussion

## **SESSION VII: CASE PRESENTATIONS - PRIMARY, COMPLEX OR REVISION TKA**

Moderator: **Dr. Amar S. Ranawat**

Focus on alignment and stability

5:00 PM - 5:55 PM

Questions to be answered

Panel Members: **Dr. Neeraj Adkar, Dr. Daniel J. Berry, Dr. Harish S. Bhende, Dr. Rajesh Maniar, Dr. Sunil Rajan, Dr. Shubhranshu Mohanty, Dr. Arun Mullaji, Dr. S. V. Vaidya**

- Importance of The Tibial Cut
- Importance of Rotational Alignment of The Components
- Achieving a Well-Balanced Knee

Eight (8) Podium Presentations

Case Presentations are 6 minutes each including moderator questions and answer

Presenters: **Dr. Pritam Agarwal, Dr. Rushay Bhalodia, Dr. Sanket Diwanji, Dr. Ramneek Mahajan, Dr. Suhas Masilamani, Dr. Jagadeesh Nallamothe, Dr. Karthik Reddy, Dr. Karthik Subramanian**

5:55 PM - 6:15 PM

Discussion

6:15 PM - 6:20 PM

**Day 2 Review: Dr. Amar S. Ranawat**

6:40 PM - 7:30 PM

## **FIRE SIDE CHATS: COMPANY SPONSORED SESSIONS**

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Zimmer Meeting Room 5

8:00 PM ONWARDS

**GALA DINNER**



# ROC PROGRAM

## DAY 3 - SATURDAY JANUARY 13<sup>TH</sup>, 2024

### KNEE TOPICS - CONTINUED

|                   |  |
|-------------------|--|
| 9:10 AM - 9:15 AM | Review and welcome: <b>Dr. Amar Ranawat</b>  |
| 9:15 AM - 9:50 AM | <b>PAPER PRESENTATION: K.T. DHOLAKIA AWARD</b><br>Moderator: <b>Dr. Parag Sancheti</b>   |
| 9:15 AM - 9:25 AM | Duloxetine as an analgesic in patients without central sensitivity undergoing single-sitting, bilateral total knee arthroplasty - A prospective, double blinded, randomised, placebo-controlled trial: <b>Dr. Rishabh Dubey</b> (Below 40 years - 7 mins presentation + 3 mins Q &A) |
| 9:25 AM - 9:35 AM | A prospective study to assess the association of Lumbar Spondylolisthesis and its outcome in patients undergoing Total Knee Replacement - Knee-Spine syndrome: <b>Dr. Yuvarajan Palanisamy</b> (Above 40 years - 7 mins presentation + 3 mins Q &A)                                  |
| 9:35 AM - 9:50 AM | Discussion   |

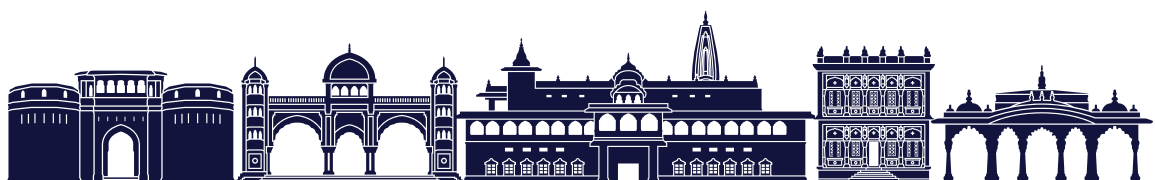
### SESSION VIII: PERFORMING A REVISION TKA

|                     |  |
|---------------------|--|
| 9:50 AM - 10:10 AM  | Moderator: <b>Dr. Arun Mullaji</b><br>Moderator's Panel Discussion Guide<br>Panel Members: <b>Dr. Amite P. Aggarwal, Dr. Subramaniam Arumugam, Dr. Raja Bhaskar, Dr. Harish S. Bhende, Dr. Ramneek Mahajan, Dr. Rajesh Maniar, Dr. Prashant Patare, Dr. Ashok Rajgopal, Dr. Amar S. Ranawat</b> <ul style="list-style-type: none"><li>• How to evaluate the impact of previous skin incisions?</li><li>• Exposure for complex revision</li><li>• Removal of well-fixed implant</li><li>• How to establish femoral and tibial rotation?</li><li>• How to compensate for major bone loss?</li><li>• How to achieve stability?</li><li>• How to re-establish the joint line?</li></ul> Case Presentations |
| 10:10 AM - 10:16 AM | Deformity Correction & Joint Line Restoration - Bilateral: <b>Dr. P. Dhanasekara Raja</b>  |
| 10:16 AM - 10:22 AM | Early Aseptic Loosening w/Medial Instability: <b>Dr. Sunil Rajan</b>   |
| 10:22 AM - 10:45 AM | Discussion   |

### HIP TOPICS

### SESSION I: PERFORMING A PRIMARY OR COMPLEX THA

|                     |   |
|---------------------|---|
| 10:45 AM - 11:05 AM | Moderator: <b>Dr. Thorsten Gehrke</b><br>Moderator's Panel Discussion Guide |
|---------------------|---|



# ROC PROGRAM

## DAY 3 - SATURDAY JANUARY 13<sup>TH</sup>, 2024

Panel Members: **Dr. Sameer Ali, Dr. Sujoy K. Bhattacharjee, Dr. Vijay C. Bose, Dr. Shubhranshu Mohanty, Dr. Dimple Parekh, Dr. Mirnal Sharma, Dr. J. V. Srinivas, Dr. Sahil Sanghavi**

- Preoperative decision making, screening and patient optimization
- Perioperative antibiotic, anticoagulation, pain and blood management
- Operative approach decision making
- Femoral and acetabular implant fixation decision making
- Bearing surface decision making
- Decision making to minimize risk of instability and optimize leg length
- Postoperative instructions: Return to activities and dislocation precaution

### Case Presentations

|                     |  |
|---------------------|--|
| 11:05 AM - 11:11 AM | Robotic Primary THA for previous excision arthroplasty: <b>Dr. Narayan Hulse</b> |
| 11:11 AM - 11:17 AM | THA in a patient w/ Thalassemia - weak bones: <b>Dr. Vinay S. Joshi</b>          |
| 11:17 AM - 11:35 AM | Discussion   |

## SESSION II: RECONSTRUCTION SURGERY AFTER HIP FRACTURE

Moderator: **Dr. Harish S. Bhende**

11:40 AM - 12:03 PM Moderator's Panel Discussion Guide

Panel Members: **Dr. Pradeep B. Bhosale, Dr. Vijay C. Bose, Dr. Mohammed Hasil, Dr. Suhas Kamble, Dr. Unmesh Mahajan, Dr. K. T. Rajshekhar, Dr. Amar S. Ranawat, Dr. Siddharth Yadav**

When to do, when not to do & how to do

- Intertrochanteric (Extra-Capsular) Fracture

Fractures NOT Suitable for Primary Internal Fixation

Options For "Primary Prosthesis Replacement": Bipolar Or THA

Conversion of FAILED Internal Fixation to THA - Points to Remember!

- Transcervical (Intra-Capsular) Fracture

When to Consider Primary Hip Arthroplasty

Selection Options: Hemiarthroplasty Or THA

Mitigating Dislocation Risk

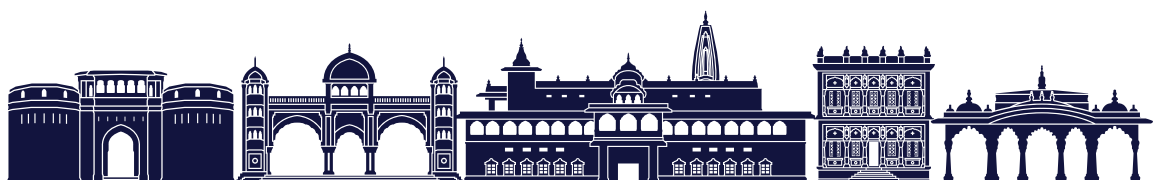
Post-Op Leg Length Discrepancy (LLD) In THA

Case Presentations

12:03 PM - 12:09 PM THR for Failed Fixation of a Femoral Neck Fracture: **Dr. Natesan Rajkumar**

12:09 PM - 12:15 PM TC Fracture in a Case of Thyrotoxicosis - Treated w/ Hybrid THA:  
**Dr. Anil T. Oommen**

12:15 PM - 12:35 PM Discussion



# ROC PROGRAM

**DAY 3 - SATURDAY JANUARY 13<sup>TH</sup>, 2024**

## **SESSION III: PERIPROSTHETIC JOINT INFECTION (PJI) - HIP ARTHROPLASTY**

Moderator: **Dr. Thorsten Gehrke**

12:40 PM - 12:55 PM

Moderator's Panel Discussion Guide

Panel Members: **Dr. Daniel J. Berry, Dr. Vijay C. Bose, Dr. Alberto Carli, Dr. Edward J. McPherson, Dr. Michael W. Henry, Dr. Vijay Kumar, Dr. Gurava Reddy**

- The Acutely Infected Hip
- Should implants be removed
- What intraoperative adjuncts do you use?
- Antibiotics how long should it be administered?

12:55 PM - 1:55 PM

## **LUNCH BREAK**

1:55 PM - 2:15 PM

## **SESSION III: PERIPROSTHETIC JOINT INFECTION (PJI) - HIP ARTHROPLASTY (CONTD.)**

- The Chronically Infected Hip
- How to safely remove the implants
- One stage - How to debride the hip
- Technical pearls for a successful spacer
- How do you close complex wounds

2:15 PM - 2:35 PM

## **Case Presentations** (8 mins each)

Presenters: **Dr. Alberto Carli, Dr. Anup Khare**

Recurrent PJI, treated with Total Femur Spacer and subsequent Acetabular Component Conversion THA in patient with Protrusio who had multiple revisions due to un-controlled infection

2:35 PM - 3:00 PM

Discussion

## **SESSION IV: REVISION TOTAL HIP ARTHROPLASTY**

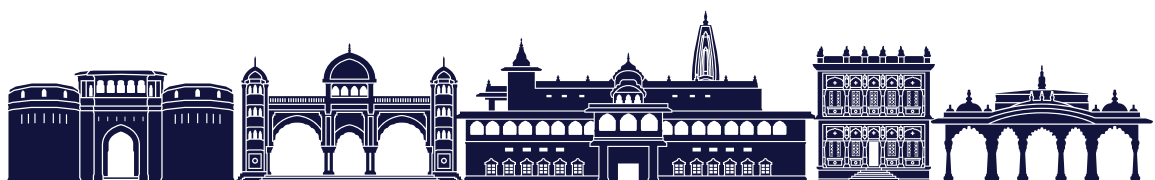
Moderator: **Dr. Vijay C. Bose**

3:00 PM - 3:20 PM

Moderator's Panel Discussion Guide

Panel Members: **Dr. Vijay Goni, Dr. Mahesh Kulkarni, Dr. Vijay Kumar, Dr. Rohit Luthra, Dr. Edward J. McPherson, Dr. J. A. Pachore, Dr. Amar S. Ranawat, Dr. Hemant Sharma, Dr. Mirnal Sharma**

- Exposure
- Removal of Well-Fixed Implants: Cup / Stem
- Implant Selection: Levels of Constraint
- Bone Grafting and Augmentation
- How to Achieve Good Implant Fixation



# ROC PROGRAM

## DAY 3 - SATURDAY JANUARY 13<sup>TH</sup>, 2024

### Case Presentations

3:20 PM - 3:26 PM

Revision THA for Aseptic Loosening: **Dr. K. T. Rajshekhar**

3:26 PM - 3:32 PM

Revision THA for Protrusio Acetabuli with Pelvic Discontinuity & Femoral Loosening:  
**Dr. IPS. Oberoi**

3:32 PM - 3:55 PM

Discussion

### SESSION V: CASE PRESENTATIONS - PRIMARY, COMPLEX & REVISION THA

Moderator: **Dr. Amar S. Ranawat**

3:55 PM - 4:50 PM

Questions to be Answered

Panel Members: **Dr. Adarsh Annapareddy, Dr. Daniel J. Berry, Dr. Vijay C. Bose, Dr. Thorsten Gehrke, Dr. Sunil Kini, Dr. Sahil Sanghavi, Dr. Ramesh K. Sen**

- How to Maximize Exposure
- Proper Acetabular Positioning Using Anatomic Landmarks
- How to Avoid Dislocation
- How to Avoid Intraoperative Femoral Fracture
- Combined Anteversion & Coplanar Test

Eight (8) Podium Presentations

Case Presentations are 6 minutes each including moderator questions and answers

Presenters: **Dr. Dheeraj Dubay, Dr. Narayan Hulse, Dr. Vivek Logani, Dr. Shyam Mukhi, Dr. Narendra G. Parmer, Dr. Kartik Patel, Dr. Vidyanand Raut, Dr. Shrinivas Thati**

4:50 PM - 5:15 PM

Discussion

### KEYNOTE LECTURE: THE PAST 20 YEARS AND GOING FORWARD

Moderator: **Dr. Amar S. Ranawat**

5:15 PM - 5:30 PM

Presenter Review Guide

Presenter: **Dr. Daniel J. Berry**

- Impact of ROC in India
- Our Unsolved Problems in Joint Replacement

5:30 PM - 5:55 PM

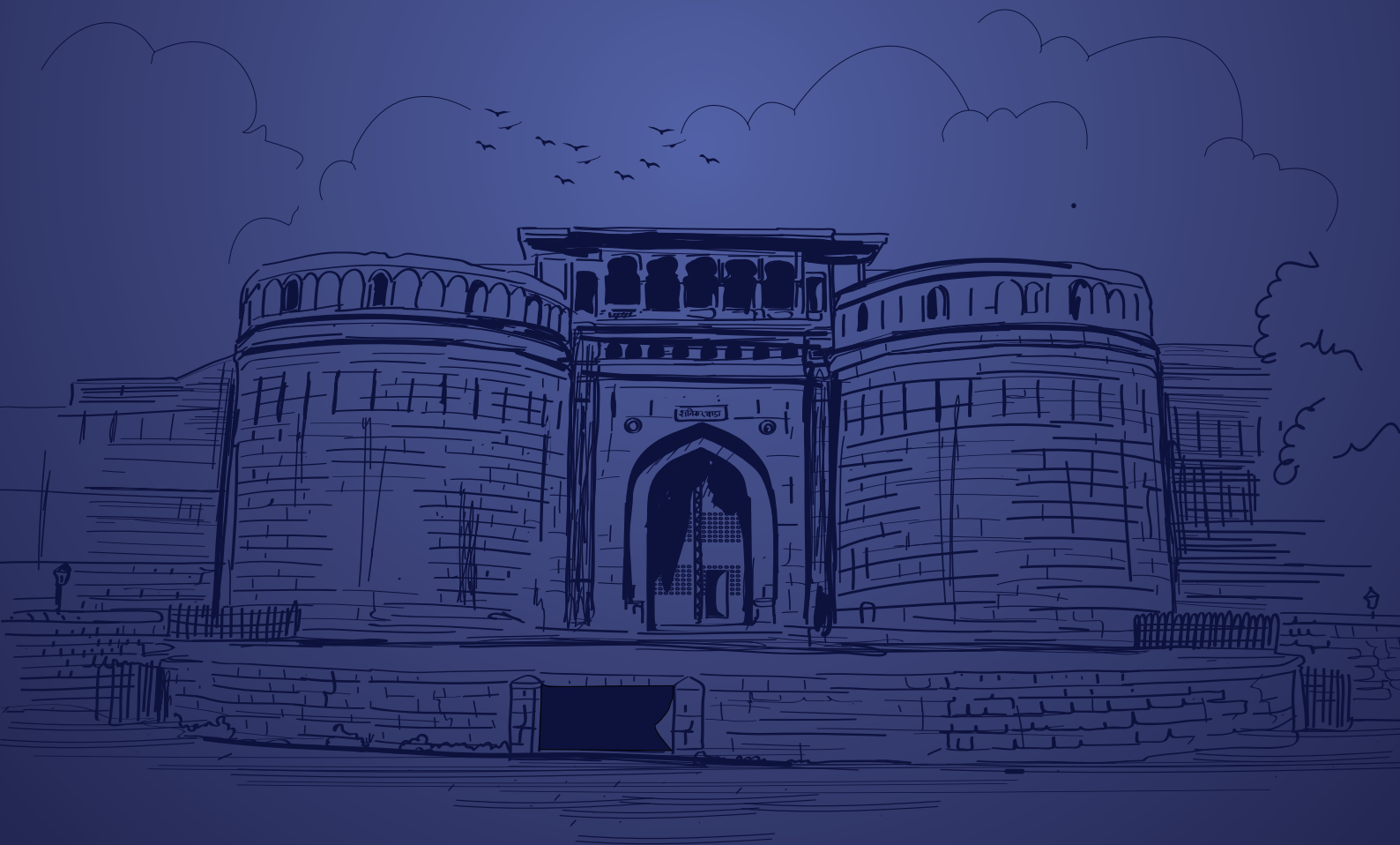
Discussion

5:55 PM - 6:05 PM

### Day 3 and Conference Summary

Moderator: **Dr. Amar S. Ranawat**





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