



FELLOWSHIP IN ORTHOPEDIC RHEUMATOLOGY

2020 onwards we had started “Fellowship in Orthopedic Rheumatology” under aegis of **Indian Orthopaedic Rheumatology Association (IORA)** in academic collaboration with **Indian Stem Cell Study Group (ISCSG)** association, and **Dr Ram Manohar Lohiya National Law university** with the laid down criteria (mentioned below)

The duration of fellowship would be for one year with classroom & proposed online contact program. There will be hospital and clinical observations as well. The fellowship would also strive to ensure NMC/ MCI credit hours for the course. The finer details of the course module for this fellowship will be laid out by the scientific committee members of IORA and ISCSG and will be shared at appropriate juncture with all the stakeholders.

Globally, regenerative science in orthopaedics holds the future to treating certain conditions where clinicians face stagnation and challenges in the available treatment modalities (*such as moderate stage of progressive osteoarthritis, uncontrolled Rheumatoid Arthritis, AVN head of Femur, DMD, etc.*) therefore the fellowship would endeavor to update and inbuild regenerative approach in the fellowship curriculum.

It is also envisaged that university of repute would be roped in to award this prestigious fellowship. A law university would be taking care of the legal aspect of regenerative medicine along with insight & guidance into the challenging medical litigations in ortho-rheumatological clinical practice. The fellowship would be jointly awarded by the RML university and IORA in academic collaboration with ISCSG association, Indian Orthopaedic association. There would be onsite clinical observership / exposure at VISA hospital of Foot & Ankle Surgery in Chennai, advances in hand surgery at Pune, SRKRC institution in Surat (*NABH accredited Regional Blood Transfusion & Research Centre*)

The total duration would be of one year during where the fellows would be exposed to Orthopaedic Rheumatology (*Medical part, Surgical and Rehabilitation part of Orthopaedic Rheumatology specially to hand and foot surgeries observership*), regenerative science in Orthopedic Rheumatology, medical litigations around orthopaedic rheumatology and legal aspects of the proposed subject with special consideration to Stem cells /Regenerative Science clinical uses. A registered scientific ethics committee from Lucknow is in place for ethical approval of fellows’ research journey and publication.

Course details

Duration – 12 months

No of Fellows intake – 20

Selection criteria –

- i. Age -under 45 years of age can apply
- ii. Life member of IORA & ISCSG
- iii. Two years of clinical experience for Postgraduates in MS/DNB Orthopaedics
- iv. Five years of clinical experience for Postgraduate Diploma in Orthopaedics

Course fees:

- a) Indian nationals – Rs 50,000/- (INR)
- b) SARCC Nationals – \$ 1500/- (USD) and
- c) Foreign nationals other than SARCC – \$ 2000/- (USD)

The surgeons who are meeting the above criteria will be intimated for the participation of fellowship under IORA and ISCSG. The fellows should have a previously demonstrated commitment in the subject.

Course curriculum

Sl. No	Exposure
1	Lucknow – 2 days training in basics of <ul style="list-style-type: none">• Orthopedic rheumatological management.• Research, analytics & paper writing.• Legal aspect of the regenerative & orthopaedic rheumatology
2	Surat – 2 days <ul style="list-style-type: none">• 2 days of practical training in regenerative procedures and protocols in regenerative science for various challenging clinical situations
3	Oral presentations and other assigned academic work in either ISCSG or IORA conference or both
4	Chennai – 2 days <ul style="list-style-type: none">• 2 days observership in foot, ankle surgeries at VISA hospital.
5	Pune – 2 days <ul style="list-style-type: none">• 2 days observership in hand surgeries
6	Lucknow – Final two days exit event along with Viva, Practical, OSCE
Note: <ol style="list-style-type: none">1. It is mandatory for the fellows to attend the ISCSG,IORA conference for oral presentation which is an integral part of Fellowship programme.2. The fellows final/last contact would be to Lucknow for required academic work where he/she is expected to be in process of publishing an original or review article in indexed national or international journal.3. At least 1 paper publication by the midterm of the fellowship is mandatory4. Fellows who fail to publish a scientific paper will not be awarded the fellowship and the fellowship will be withheld.5. Fellows will be graduated during IORA conference6. Attendance at all centers and completion of e-modules are mandatory for receiving the fellowship.7. A score of 75% is expected for awarding the Fellowship8. Fellows later can write in their resume Fellowship in Orthopaedic Rheumatology (FEIORA)9. All contact will be onsite and online (e-modules will given for enhanced outcomes)	

The stay arrangements would be facilitated by IORA & ISCSG association during this period of teaching in Chennai, Surat, Pune and Lucknow but payments will be borne by the fellows. The course fee does not cover travel, stay, publication and conference expenses (*There would be a committee to resolve any difference of opinion, however in case of any dispute the decision of the Course head/Director would be final*)

The opportunity of learning and interaction would be of immense value to boost the scientific knowledge among the fellows. The prescribed textbook for teaching would be the upcoming “Textbook of Orthopaedic Rheumatology” and an e-book under innovation info, “Autologous platelet rich plasma in Musculoskeletal disorders”.

Applications should be made stating

- a) Letter of Intent - *Why the candidate should be included in the fellowship program?*
(Min 250 words)
- b) Purpose – *How the fellowship will help the candidates' career plan?*
(Min 250 words)

List of documents needed with the application:

1. Brief CV
2. MCI/ NMC recognized Degree/ Certificates (MCI, Degree of MBBS and Higher Qualification)
3. Certificates of attendance – National & International Conference in the field concerned
4. Abstract proposal (350 words) for research work during fellowship
5. Two letters of recommendation by members of IORA and or ISCSG with 5 years of standing.

Applications may be sent by email to fellowiora@gmail.com and CC to manishvenus@rediffmail.com

Closing Dates for submitting request – **31 th January 2021** Later, On line interview would be conducted by course director before finalizing the names of Fellows as the candidates for Fellowship .

Course Flow

- a. Induction – Lucknow
- b. Research Topic Allocation
- c. Online lectures
- d. Research Proposal submission
- e. IEC Approval
- f. Offline demonstration– Surat,Chennai,Pune
- g. Synopsis Submission
- h. Final Research Publication
- i. FEIORA Exit Exam – Lucknow

Orthopaedic Rheumatology faculties

Prof. Dr. Manish Khanna,

Prof S S Jha

Prof Dileep Mazumder

Prof Alok C Agarwal

Prof Shantanu Lahkar

Dr. Madhan Jeyaraman,

Dr. Sathish Muthu,

Prof H S Narendra

Prof Vikas Trivedi

Prof Mukesh Yadav

Prof Venus khanna

Dr Shweta Agarwal

Dr Pankaj Jindal

Dr T V Raja

Dr. Kuldeep Mailk

Dr. Anil Gowtham Manivannan
Dr. Girinivasan Chellamuthu
Dr. Bushu Harna

Regenerative Orthopaedics faculties

National

Prof. Dr. Manish Khanna
Dr. Kanchan Mishra
Dr Megnand Joshi
Dr. Dr. B R Ravi
Dr. Madhan Jeyaraman,
Dr. Sathish Muthu,
Prof. Dr. Shilpa Sharma
Prof. Dr. Sandeep Shrivatsava

International

Prof Michele Zocchi Venice(Italy)
Dr Jose Fabiolana Brazil
Dr Marco Traub Switzerland
Dr Charan Reddy USA
Dr Steven R Peloquin Manhattan
Dr Asawira Bapat Dubai

Research Methodology Faculty

Dr Syed Belal Hassan
Dr Anamika pandey
Dr Imran

Law Faculty

Dr A K Pandey ,DR RMLNLU,LKO

Course Director

Dr (Prof) Manish khanna MS FIMSA
Orthopaedic Rheumatologic Surgeon & Regenerative Orthobiologist

President Emeritus,IORA
Chartered President,ISCSG Association
(An all India registered organization)
Chairman,ISCSG Trust

Syllabus for FEIORA

Module 1: Introduction (1 month)

- 1.1 Introduction to Orthopaedic Rheumatology
- 1.2 Introduction to Regenerative Medicine
- 1.3 Introduction to Medico-legal aspects

Module 2: Rheumatoid arthritis (1 month)

- 2.1 Rheumatoid arthritis – Pathology and Immunology
- 2.2 Clinical presentation and deformities of rheumatoid arthritis
- 2.3 Diagnosis and management of rheumatoid arthritis
- 2.4 Biological therapy in rheumatoid arthritis
- 2.5 Regenerative science in rheumatoid arthritis
- 2.6 Juvenile rheumatoid arthritis

Module 3: Seronegative spondyloarthropathies (1 month)

- 3.1 Seronegative spondyloarthropathies
- 3.2 Ankylosing spondylitis
- 3.3 Surgical management in sero neg spondyloarthropathy
- 3.4 Regenerative science in seronegative spondyloarthropathies

Module 4: Cartilage, joint and bone disorders (1 month)

- 4.1 Osteoarthritis – Pathology, diagnosis, management
- 4.2 Regenerative science in osteoarthritis
- 4.3 Crystal deposition disease – Gout, Pseudogout, Alkaptonuria
- 4.4 Osteoporosis – Basics, diagnosis, management and recent advances
- 4.5 Periarthritis shoulder, variant arthropathies, Perthes disease

Module 5: Ortho Rheumatology Variants (1 month)

- 5.1 Soft tissues tumors & tumor like lesions
- 5.2 Enthesopathies – Tennis elbow, Golfer's elbow, Tendinopathies (Patellar, Achilles and Supraspinatus), Plantar fasciitis, Interscapular fibrofasciitis, de Quervain's tenosynovitis
- 5.3 Bursitis
- 5.4 Trigger points
- 5.5 Myofascial pain syndrome
- 5.6 Fibromyalgia

Module 6: Wrist ,hand ,Foot Orthorheumatology (1 month)

- 6.1 Rheumatoid wrist ,hand surgical correction
- 6.2 Carpel tunnel,arthritis of First Metacarpoph joint , various hand disorders
- 6.3 Rheumatoid Foot (including hallux) surgical corrections
- 6.4 Diabetic Foot

Module 7: Regeneartive Orthopaedics (2 months)

- 7.1 Platelet derived products ,PRP with Recent advances
- 7.2 Biology, Types of stem cells
- 7.3 Mesenchymal stem cells
- 7.4 Sources of MSCs and its advantages
- 7.5 Applications of MSCs in various clinical conditions
- 7.6 Stem cell banking

Module 8: Medico-legal aspects (1 month)

Module 9: Research Methodology (15 days)

- 9.1 Levels of Evidence
- 9.2 Study types and their methodologies
- 9.3 Critical appraisal of Evidence
- 9.4 Ethical Committee
- 9.5 International guidelines on methodology reporting

Module 10: Publication ethics (15 days)

- 10.1 Code of research conduct
- 10.2 Authorship guidelines
- 10.3 Plagiarism
- 10.4 Citation techniques
- 10.5 Literature review techniques

