

FELLOWSHIP IN ARTHROPLASTY

(TRAINING SCHEDULE AND SYLLABUS)

Duration of Fellowship : 1yr

Eligibility : MS (Ortho) / DNB (Ortho)

Objectives

- To develop a systemic approach to the patients' problem and decision making skills in management.
- To develop and sharpen skills in examination and assessment of patients with arthritis and related problems requiring joint replacement surgery.
- To attain basic surgical skills and techniques in arthroplasty.
- To obtain experience in scientific data collection, analysis interpretation, publication and surgical audit.

Schedule:

- General OPD postings. – 1 ½ Months.
- Ward & Theatre postings. – 6 Months (3 Days/Week).
OPD, Pre op planning and post op follow up, assessment & documentation
– 6 Months (3 Days/Week).
- Research postings. – 1 ½ Months.
- Peripheral postings. – 3 Months.

(Adult reconstructive surgery, arthroscopy and sports injuries)

Monthly 4 duties covering the urgent care, patient calls, and inpatient floor coverage.

Surgical training:

- Assisting arthroplasty surgeries :
- **Hip arthroplasty :**
 - Hemi arthroplasty.
 - Total hip arthroplasty – Cemented and Uncemented.
 - Resurfacing arthroplasty.
 - Revision hip replacement.
- **Knee arthroplasty :**
 - Primary total knee arthroplasty.
 - Revision knee arthroplasty.
- **Shoulder arthroplasty :**
 - Hemi shoulder arthroplasty.
 - Total shoulder arthroplasty.
 - Reverse shoulder arthroplasty.
- Total elbow arthroplasty.
- Independently will be doing under supervision, hemi arthroplasty of hips, total knee replacement and total hip replacement.

Academic Requirements

Research work

- Planning and designing a study, data collection, analysis and defending the project/study publishing it.
- Desirable to achieve one Indexed publication (International)
- At least one national publication
- Oral presentations in national conference. Attending at least two major conferences.
- Regular presentations in Local body orthopaedic/ Arthroplasty meets
- Maintaining a Log of all Clinical and Surgical work

Syllabus : Includes relevant chapters covering various topics listed below for various major joints undergoing replacement arthroplasty routinely.

- Biomechanics.
- Indications.
- Pre-operative planning.
- Templating.
- Surgical techniques.
- Soft tissue handling and their importance.
- Implant Biomechanics and merits/demerits.
- Implant choice.
- Rehabilitation.
- Outcomes.
- Complications – pre, intra and post operative.
- DVT prevention.
- Blood management during arthroplasty surgeries.
- Infection in Arthroplasty.
- Revisions, Principles and Practice.
- Current Concepts.

Reference books and periodicals :

- Low friction arthroplasty by John Charnly.
- Surgery of the knee by John Insall.
- Revision total hip arthroplasty by Jones Bono.
- Campbell's text book of orthopaedics.
- Surgical techniques in total knee arthroplasty by Seuderer and Tria.
- Joint replacement orthopaedics by Bernard Morrey.
- Shoulder arthroplasty by Gary Gratsman
- Total joint replacement by William Betty
- Journal of arthroplasty.
- Journal of Bone and Joint Surgery.
- Clinical orthopaedics and related research.