



MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956)

Grade 'A' Accredited by NAAC

Sector-01, Kamothe, Navi Mumbai -410 209

Tel 022-27432471, 022-27432994, Fax 022 -27431094

E-mail: registrar@mgmuhs.com; Website :www.mgmuhs.com

Curriculum for Certificate Course in Endospine

Approved as per BOM - 53/2018, Dated 19/05/2018

Amended History

1. Approved as per BOM - 53/2018, [Resolution No.4.8], Dated 19/05/2018.



Recd. from Dr. Salgot.
(23/5/18)

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FORM FOR SUBMISSION OF PROPOSAL / FELLOWSHIP COURSE

1. Title of the fellowship : ENDOSPINE CERTIFICATE COURSE in collaboration with mission spine association.
2. Duration of the fellowship : 06 months
3. Commencement - 2 batches A) 1st June B) 1st December
4. Objectives of the fellowship : To enhance & apply endoscopy applications in degenerative spine
5. Eligibility criteria for admission : MS Ortho / DNB/FCPS/ D'Ortho/CPS
MCh. Neurosurgery, Pain Specialists
6. Intake capacity in each batch : 6 students
7. Admission / Selection process/ Procedure: Interviews by faculty
8. Fees : 4 lacs & USD 6000
9. Course content : Attached curriculum : Annexure A
10. Teaching scheme (total period & allotted to each topic) : Attached curriculum : Annexure A
11. Complete curriculum of the course : Attached : Annexure B
12. Text book & reference books :
 1. Endoscopic spine surgery by Gun Choi.
 2. Minimally invasive spine surgery by A Kulkarni.
 3. Literature articles from journals.
13. Scheme of examination (Pattern of exam/ passing criteria Award of fellowship) :
Theory & Viva/Clinical Examination/Live surgery performance
14. Infrastructure required for conducting the course & its availability in the college/ hospital : Attached Annex C

15. Faculty required (with qualification) for conducting the course :

1) Mission Spine Faculty a) Dr Satishchandra Gore

b) Dr Malcolm Pestonji

c) Dr Milind Gandhi

d) Dr Anand Kavi.

2) MGM Faculty : i) Dr.Prof.(Lt. Gen.) K.R.Salgotra

ii) Dr.Sarabeet Singh Kohli

iii) Dr.Nilesh Vishwakarma

iv) Dr.Shaival Chauhan

ANNEXURE A

Course Overview and teaching programme.

A. Theoretical Theory Curriculum - 2 Days/Week

B. OPD - 2 Days/Week

- Examination of patients
- Correlation of symptoms with images of predictable outcomes
- 300 patients in 6 months
- Formats of clinical examination
- Data management system
- 80% attendance mandatory, <80%attendance – candidate will not be allowed for examination. Further extension, if any, will be chargeable prorate for absenteeism

C. Practical / Procedures (Supervised and Independent) - 2 Days/Week

- Minimum 80, upto 100 procedures (30 Surgeries + 300 Blocks)
- Basic Needling Techniques
- Der1 Plug – PRP/PRF in spine
- Lumbar
 - 50 intradiscal steroid
 - 50 SNRB
 - 50 facetal blocks
 - 50 discography
- Cervical
 - 50 facet blocks
 - 50 steroid injections intradiscal

Basic and Advanced = 30 surgeries

Basic Discal Surgeries

- 10 Discectomy
- 2 Migrated Disc Excision
- 5 Rhizotomy

Advanced Surgeries

- 2 Hybrid surgery (Transfacet Fixation and Percutaneous Pedicle Fixation)
- 5 Foraminoplasty (soft and hard)
- 2 Surgeries for degenerative listhesis
- 2 Cervical disc surgeries
- 2 Cauda Equina surgeries, when available - under supervision
- 2 Transiliac surgeries
- Foraminotomy – Outside in Hoogland's technique.
- 2 Posterior inter-laminar endoscopy (salvage surgeries)

Examinations

- Theory and Viva
- Clinical Examination
- Live surgery Performance
- Unedited video of one surgery
- Cadaver surgery

ANNEXURE B

CURRICULUM DETAILED

TOPICS

- 1. Dr. Satishchandra Gore's Principles**
- 2. The Gore Concept**
- 3. History of Endospine Surgery**
- 4. Literature Review**
- 5. Anatomy**
 - a. General Spine Anatomy**
 - b. Lumbar / Foraminal Anatomy**
 - c. Cadaveric Dissection**
 - d. Cervical Anatomy**
 - e. Thoracic Spine Anatomy**
- 6. Radiology - Imaging from Endospine point of view**
 - a. Doppler assisted Cervical Spine**
 - b. CT Scan**
 - c. MRI Scan**
 - d. Discographies**
 - e. X-ray**
 - f. EMG – NCV**
 - g. Sonography**
 - h. Dyes**

7. Pain Management for Endospine

- a. Blocks – Cervical, Thoracic, Lumbar
- b. SNRB, Facet Block
- c. Rhizotomy
- d. Pain Cascade
- e. Spinal Cord Stimulation
- f. DRG implants

8. Biology

- a. Disc Pathology
- b. Stenotic Pathologies
- c. Extrapinal Pathologies
- d. Potts Spine – Biopsy
- e. Tumors – Collapse fracture, degenerative

9. Anesthesia Management for Awake and Awake patient - Protocols and use of local anesthesia and sedative drugs to cause event amnesia

10. Kyphoplasty, Vertebroplasty and Spine Jack

11. Biomechanics of Spine (Dr. Sunil Nadkarni)

12. Failed Back Syndrome

13. Frequently Asked Questions of Patients

CLINICAL

1. Operative Preparation
2. Documentation
3. Patient Counselling
4. Care of patients with special needs
5. Pre-operation Planning

6. Arrangement of equipment in OT
7. C-Arm
8. Operation Table Setting with Bolsters
9. Surgical Fluids
10. Ancillary equipments
11. Radio Frequency
12. Laser
13. High Tech Equipments
14. Gore Instrument Set/ Cervical Spine Instrument Set
15. Max More Systems
16. Kyphoplasty equipment / procedure
17. Obese patient management
18. Medical co-morbidities and their management
19. Pitfalls in surgical management
20. Endospine Documentation
 - a. Patient Testimonial
 - b. Image Co-relation
 - c. Video Films
21. Ancillary Support Staff Training
22. Care and Maintenance of Endoscopic instruments
23. Lecture on VAS score, Japanese Stenosis Score, Oswestry Index
24. Psychological profile of Backache
25. Workers Compensation Act with relation to spine

ANNEXURE C

Infrastructure

MGM Logistics

1. Operation Theater
2. OPD Access
3. Ward Access
4. Lecture Halls
5. Library
6. Hostel Accommodation



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