



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 Fellowship in Vascular and Endovascular Surgeries

(with effect from 2023-24 Batches)

Approved as per AC-46/2023, Dated 28/04/2023

Amended History

1. Approved as per AC-46/2023, [Resolution No.5.35], Dated 28/04/2023.

Resolution No. 5.35 of Academic Council (AC-46/2023): Resolved to start fellowship programme "Vascular and Endovascular Surgeries" under Faculty of Medicine in the department of Surgery, Navi Mumbai from Academic Year 2023-24 onwards [ANNEXURE-39].



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FORMAT FOR SUBMISSION OF PROPOSAL FOR FELLOWSHIP PROGRAMME

1. **Title of the fellowship:** Vascular & Endovascular Surgery
2. **Duration of the fellowship:** 1 year (12 Month)
3. **Objectives/ Outcomes of the proposed fellowship:**
 1. To train to perform elective and emergent vascular surgery procedures – e.g. embolectomy, peripheral vascular reconstructions, repair of abdominal aortic aneurysm, Carotid revascularization, surgery for venous insufficiency, endovascular therapies for occlusive, aneurismal diseases and AV malformations.
 2. To have a broad background regarding vascular medical conditions e.g. Venous thromboembolic disorder and rationale of antiplatelet and anticoagulant therapy.
 3. To train specialists to handle common vascular illnesses, emergencies including vascular trauma, at respective institutions.
 4. To update recent knowledge and to keep pace with rapid advances in the progress of Vascular Surgery and endovascular techniques.
4. **Eligibility Criteria (educational) for Admission:** MS/ DNB General Surgery
5. **How many fellows may be trained at any given time for optimal training:**

01 Fellow , 06 monthly intake
6. **Admission/Selection Process/Procedure:**
 - Interview based
 - CV
7. **Fees (App.)** Rs. Two Lakhs only
8. **Complete Curriculum of the Course:** Attached as Annexure A

*Stating
to work 13/3*

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REF: At

9. **Textbook and Reference Books:**

1. Text book of Vascular Surgery: by Robert B. Rutherford.
2. Text book of Vascular Surgery : by Henry Haimovici
3. Text book of Vascular Emergencies; by Henry Haimovici
4. Vascular and Endovascular Surgery: A Comprehensive Review: by Moore, Wesley S. Philadelphia, Saunders Elsevier.
5. Text book of Vascular Surgical Emergencies: by John J. Bergen & James S. I. Yao.
Investigation of Vascular Diseases: by Andrew N. Nicolaides & James Yao.
6. Rob & Smith Operative Surgery Text book of Vascular Surgery: by James Deeweese.
7. Comprehensive Vascular Exposures: by Ronald J. Sloney & David J. Effenev
8. Wylie's Atlas of Vascular Surgery & Organ Transplantation: by Wayne Flye
9. Atlas of Vascular Surgery: by Rutherford

10. **Scheme of Examination / Assessment (in detail):**

(Pattern of exam/Passing criteria)

The summative assessment examination shall include two heads:

A. Theory examination. B. Practical/Clinical examination and Viva-voce.

Theory examination and Practical/Clinical, Viva-voce shall be separate heads of passing. Theory examination shall comprise of two papers.

Passing percentage shall be cumulatively 50% with minimum of 40% marks in each theory paper.

The examination shall be in two parts:

1. Theory

There shall be 2 theory papers as follows:

Paper I: Basic Sciences (applied to Vascular Surgery) & Vascular Surgery

Paper II: Endovascular Surgery & Recent advances in Vascular Surgery

2. Clinical / Practical examination

11. **Infrastructure (Equipments, Clinical work, Other expertise) required for conducting the fellowship and its availability in the College/Hospital Campus:**

- Fully functional Vascular OT
- Fully equipped Cath Lab
- CT Angiogram facility
- Colour Doppler Facility
- Vascular operative instruments
- Vascular OPD
- Portable handheld Doppler machine

12. Procedures / Operations etc. performed in last 03 years in support of successful conduct of proposed fellowship: Attached as Annexure B

13. Faculty available (with qualification) for conducting / coordinating the Fellowship:

- Dr Sameer Kadam MCh CVTS
- Dr Rohit Shahapurkar MCh CVTS
- Dr Sushil Patil MD Interventional Radiology

14. Nodal department and campus for running the Fellowship Programme:

Department of General Surgery, MGM Medical College & Hospital, Navi Mumbai


Name / Signature of faculty
who is Proposing the Fellowship

Dr. SAMEER KADAM
MS. MRCS. MSc. MCh(CVTS)
Professor And Head of Department
General Surgery
MGM MEDICAL COLLEGE &
HOSPITAL, NAVI MUMBAI


Name / Signature of HOD

Dr. SAMEER KADAM
MS. MHUS. MSc. MCh(CVTS)
Professor And Head of Department
General Surgery
MGM MEDICAL COLLEGE &
HOSPITAL, NAVI MUMBAI

This is to clarify that the above information has been verified and therefore I forwarded the proposal to University to be further discussing in respective Board of Studies Meeting.

Date:

Head of Institute.



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Starting
to year 4 13/7

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B. Clinical Competencies- Knowledge in subject

1. Aneurysmal disease
 - a. Aneurysm involving aortic arch
 - b. Descending thoracic and thoraco-abdominal aorta
 - c. Abdominal aorta
 - d. Peripheral arterial
2. Peripheral vascular occlusive disease
3. Renal artery disease
4. Visceral ischemia
5. Carotid artery disease
6. Innominate, subclavian and vertebrbasilar arterial disease
7. Thoracic outlet syndrome
8. Acute arterial occlusion
9. Complications of vascular therapy
10. Management of vascular trauma
11. Venous thrombo-embolic disease, chronic venous insufficiency
12. Diagnostic techniques
13. Vascular grafts
14. Endovascular therapy in management of peripheral vascular disease
15. Endovascular therapy for aneurysmal disease
 - a. Basic evaluation and concepts of Endovascular Aneurysm Repair
 - b. Techniques and specifications at various aortic avenues
 - c. Complications, long term surveillance of Endovascular repair of Aneurysms
16. Risk stratification and risk factors
17. Coagulation disorders, anticoagulants, anti platelets
18. Miscellaneous vasculogenic problems
19. Diagnosis and management of Non- atherosclerotic vasculogenic problems
20. Arteriovenous malformations and arteriovenous fistulae
21. Varicose vein
 - Endovenous laser /RF ablation for varicose veins – concepts & Techniques
21. Vascular access
22. Diabetic foot problems

23. Lymphodema
24. Sympathectomy
25. Amputation
26. Tissue engineering - current status

The student should acquire the following skills:

1. Embolectomy
2. Femoro-popliteal bypass
3. Aorto-femoral bypass
4. Femoro-distal bypass
5. Aorto-renal bypass
6. Aorto-visceral bypass Repair of abdominal aortic aneurysm & thoraco-abdominal aortic aneurysm
7. Repair of popliteal artery aneurysm
8. Carotid endarterectomy and surgery for Carotid diseases
9. Decompression of thoracic outlet syndrome
10. AV access surgery/transplant surgery
11. Repair of arteries and veins (Trauma)
12. Extra-anatomic bypass
13. Thrombectomy/ Re-do procedures.
14. Surgical and non-surgical management of Varicose veins
15. Angioplasty with or without stenting of FP, Iliac, aortic stenosis
16. Carotid artery stenting
17. Iliac vein stenting
18. Endovascular repair of AAA (abdominal aortic aneurysm), thoracic aortic aneurysm, peripheral aneurysms
19. Catheter Directed Thrombolysis (CDT)

Schedule of postings :

The training programme shall aim to provide sound knowledge in the diagnostic and investigative aspects of vascular surgery for the candidate. It will provide practical training in clinical and operative vascular surgery.

The programme of training shall be divided as follows:

Duration	Department
8 months	Vascular Surgery
3 months	Interventional Radiology
2weeks	CVTS
2weeks	Cardiology

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ANNEXURE B

VASCULAR & ENDOVASCULAR PROCEDURES PERFORMED IN LAST 05 YEARS

PROCEDURE	YEAR 2018	YEAR 2019	YEAR 2020	YEAR 2021	YEAR 2022
AV FISTULA	126	162	65	74	85
EMBOLECTOMY	09	09	12	07	03
BYPASS SURGERY	08	10	04	03	10
PSEUDOANEURYSM REPAIR	04	03	02	01	05
ENDARTERECTOMY	01	03	01	01	02
TRAUMATIC VASCULAR REPAIR	10	17	05	05	09
DSA	22	22	17	25	12
IVC FILTER	02	02		03	05
SCLEROTHERAPY	05	06	01	05	05
EMBOLISATION	02	01	01	05	03
PERIPHERAL ANGIOPLASTY CDT	01		04 01	05 04	05

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Minimum number of procedures to be performed/assisted by post graduate students in 3 years at an MCh Peripheral Vascular Surgery program as per guidelines-

1. AV Fistula:	30
2. Exposure of peripheral arteries:	30
3. Embolectomy:	03
4. Femoro-Popliteal / Aorto-Femoral graft:	05
5. Abdominal Aortic aneurysm:	03
6. Carotid Endarterectomy:	03
7. Peripheral arterial aneurysms:	02
8. Hybrid / Endovascular Aortic Aneurysm Repair:	02
9. Vascular graft anastomosis:	05
10. Thoracotomy (to facilitate exposure of Descending Thoracic Aorta)	05
11. Saphenous vein harvest	20
12. Femoral /Aortic Cannulation	05



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