

APRIL - 2001

[KD 063]

Sub. Code : 1854

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch VIII — Vascular Surgery

(Revised Regulations)

**Paper IV — RECENT ADVANCES IN VASCULAR
SURGERY**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss basic principles of antithrombotic therapy and its application in Vascular surgery. (25)
 2. Discuss current management of Portal hypertension (25)
 - 3 Write briefly on : (5 × 10 = 50)
 - (a) Laser in Vascular Surgery
 - (b) Thermography
 - (c) Aids and Vascular surgeon
 - (d) Angioscope
 - (e) Color doppler use in arterial diseases.
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NOVEMBER - 2001

[KE 063]

Sub. Code : 1854

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch VIII — Vascular Surgery

Paper IV — RECENT ADVANCES IN VASCULAR
SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss indications, device description procedural complications and current status of S tented grafts in Abdominal aortic aneurysm treatment. (25)
2. Describe, recent advances in Therapeutic Angiogenesis and its future perspectives. (25)
3. Write short notes on : (5 × 10 = 50)
 - (a) Extra cranial vertebral artery surgery
 - (b) EVEREST Results of Carotid end-arterectomy
 - (c) Endothelial seeding
 - (d) Sclerotherapy
 - (e) Endothelium.

MARCH - 2002

[KG 063]

Sub. Code : 1854

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch VIII — Vascular Surgery

Paper IV — RECENT ADVANCES IN VASCULAR
SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss percutaneous transluminal angioplasty, Atherectomy devices and stents and stented grafts. Outline the current status. (25)

2. Discuss the surgical treatment of reno vascular hypertension including a brief account of exposure of renal arteries. Outline the early and late results. (25)

3. (a) Write notes on : (4 × 10 = 40)

(i) Presealed graft.

(ii) CO₂ Angiogram.

(iii) Vena Caval interruption devices.

(iv) Current management of infected Abd. aortic prosthesis.

(b) Write 2 lines each on

(4 × 2½ = 10)

(i) POLYBUTESTER

(ii) CILOSTAZOL.

(iii) Fibrin glue.

(iv) Calcium DOBESILATE

SEPTEMBER - 2002

[KH 063]

Sub. Code : 1854

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch VIII — Vascular Surgery

Paper IV — RECENT ADVANCES IN VASCULAR
SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss the current concepts in the prevention of deep vein thrombosis. (25)
 2. Describe the recent developments in vascular imaging. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Chronic lymphoedema of lower limbs
 - (b) Venous insufficiency in pregnancy
 - (c) Coated grafts
 - (d) Endothelial cell seeding
 - (e) Venous embolectomy.
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AUGUST - 2004

[KL 063]

Sub. Code : 1854

II. Write short notes on :

(10 × 5 = 50)

M.Ch. DEGREE EXAMINATION,

(Higher Specialities)

(Revised Regulations)

Branch VIII — Vascular Surgery

**Paper IV — RECENT ADVANCES IN VASCULAR
SURGERY**

Time : Three hours

Maximum : 100 marks

Theory : Two hours and

Theory : 80 marks

Forty minutes

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL the questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(2 × 15 = 30)

**(1) What are the complications associated with
stent-graft repair of abdominal aortic aneurysms.**

**(2) Discuss the current concepts in the
prevention of deep vein thrombosis.**

(a) Cilostazol

(b) Antioxidants

(c) Inferior vena caval filters

(d) Pulmonary capillary wedge pressure

(e) Milrinone

(f) Nitric oxide

(g) Homografts

(h) Magnetic resonance angiogram

(i) Vascular Endoscopy

(j) Homocysteine.

AUGUST - 2006

[KP 063]

Sub. Code : 1854

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch VIII — Vascular Surgery

Paper IV — RECENT ADVANCES IN VASCULAR
SURGERY

Time : Three hours

Maximum : 100 marks

Theory : Two hours and
forty minutes

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(1) Discuss the organization of Endo Vascular room in Vascular Surgical Practice and how do you manage iatrogenic complications in the endo vascular room? (20)

(2) What are the recent advances in Vascular imaging and discuss in detail Magnetic resonance Angiography in Vascular practice? (15)

(3) Discuss carotid artery angioplasty and stenting. Compare their result with the endarterectomy in the Modern Vascular Surgical Practice? (15)

II. Short notes : (6 × 5 = 30)

(a) Vascular graft infections.

(b) Vascular staplers.

(c) Neo Vasculo genesis and stem cells.

(d) D – Dimers in thrombo embolism.

(e) INR - long term thrombo prophylaxis.

(f) Sclero therapy in Phlebology.

August-2007

[KR 063]

Sub. Code : 1854

M.Ch. DEGREE EXAMINATION.

Branch VIII — Vascular Surgery

**Paper IV — RECENT ADVANCES IN VASCULAR
SURGERY**

Time : Three hours

Maximum : 100 marks

**Theory : Two hours and
forty minutes**

Theory : 80 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

I. Long Essay :

1. Discuss the use of fenestrated grafts in endovascular stenting. (20)

2. Discuss the current concepts in the management of type B aortic dissectors. (15)

3. Discuss the mechanism of myointimal hyperplasia and the strategies to prevent it. (15)

II. Short notes : (6 × 5 = 30)

(a) Vacuum-assisted closure of wounds.

(b) 64 slice CT scan.

(c) Antegrade cerebral perfusion.

(d) Venous valve repair.

(e) Impotence following aorto-iliac surgery.

(f) Lymphoscintigraphy.

August 2008

[KT 063]

Sub. Code: 1854

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch VIII – VASCULAR SURGERY

Paper IV – RECENT ADVANCES IN VASCULAR SURGERY

Q.P. Code: 181854

Time: Three hours

Maximum: 100 Marks

ANSWER ALL QUESTIONS

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 = 40)

1. Hybrid procedures in management of arch aneurysm.
2. Discuss endovascular intervention for femoro distal arterial occlusions.

II. Write short notes on:

(10 x 6 = 60)

1. TASC guidelines for management of PVD.
 2. Vascular interventional surgical trainer.
 3. Surveillance for endoleak.
 4. Radio frequency ablation.
 5. Gadolinium nephropathy.
 6. Cell saver.
 7. Blood vessel tissue engineering.
 8. Stem cell therapy in limb ischemia.
 9. Vessel closure clips.
 10. Arterial assist devices.
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August 2009

[KV 063]

Sub. Code: 1854

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS

(Super Specialities)

Branch VIII – VASCULAR SURGERY

(Revised Regulations)

Paper IV – RECENT ADVANCES IN VASCULAR SURGERY

Q.P. Code: 181854

Time: Three hours

Maximum: 100 Marks

Answer ALL questions

Draw suitable diagrams wherever necessary.

I. Essays:

(2 x 20 = 40)

1. Describe the clinical presentation, pathology and endovascular management for infra renal abdominal aortic aneurysm.
2. Discuss the theories of atherogenesis and describe the haemodynamic factors in atherosclerosis. What are the current recommendations for aortic reconstruction and infra inguinal arterial reconstruction?

II. Write short notes on:

(10 x 6 = 60)

1. Gemfibrosil.
2. Micro surgical lymphatic reconstruction.
3. In vivo gene transfer.
4. Surface modified grafts.
5. Bioengineered blood vessels.
6. Modulation of immune system in vascular disorders.
7. Photodynamic treatment on biological grafts.
8. Cell saver.
9. Post phlebotic sequelae.
10. Hybrid procedures.

August 2011

[KZ 063]

Sub. Code: 1854

MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATION
(SUPER SPECIALITIES)

BRANCH VIII – VASCULAR SURGERY

RECENT ADVANCES IN VASCULAR SURGERY

Q.P. Code:181854

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks
(Max.) (Max.) (Max.)

- | | | | |
|--|----|----|----|
| 1. Discuss in detail about the endovascular intervention for infra inguinal occlusive arterial disease. | 11 | 35 | 15 |
| 2. Discuss in detail about the current concepts in the management of acute limb ischemia with special reference to reperfusion injury. | 11 | 35 | 15 |

II. Write notes on :

- | | | | |
|--|---|----|---|
| 1. Newer Thrombolytic Agents. | 4 | 10 | 7 |
| 2. Bio functional vascular Prosthesis. | 4 | 10 | 7 |
| 3. Cryopreserved allograft. | 4 | 10 | 7 |
| 4. Cerebral hypo perfusion Syndrome. | 4 | 10 | 7 |
| 5. Absorbable Stents. | 4 | 10 | 7 |
| 6. Arterial Assist Device. | 4 | 10 | 7 |
| 7. Compression pump. | 4 | 10 | 7 |
| 8. Malperfusion syndrome. | 4 | 10 | 7 |
| 9. Radio frequency ablation of varicose veins. | 4 | 10 | 7 |
| 10. Cardiac risk stratification. | 4 | 10 | 7 |

[LB 025]

AUGUST 2012

Sub. Code: 1854

M.Ch – VASCULAR SURGERY

Paper – IV RECENT ADVANCES IN VASCULAR SURGERY

Q.P. Code: 181854

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on:

Pages Time Marks
(Max.)(Max.)(Max.)

- | | | | |
|--|----|----|----|
| 1. Discuss Current strategy in prevention of Deep Vein Thrombosis. | 16 | 35 | 15 |
| 2. Discuss recent advances in vascular imaging and discuss magnetic Resonance angiography in detail. | 16 | 35 | 15 |

II. Write notes on:

- | | | | |
|---|---|----|---|
| 1. VATS. | 4 | 10 | 7 |
| 2. Inferior Vena Caval Filters. | 4 | 10 | 7 |
| 3. Pharmacology of Cilostazol. | 4 | 10 | 7 |
| 4. Foam Sclero Therapy. | 4 | 10 | 7 |
| 5. Lytic Therapy in Deep Vein Thrombosis. | 4 | 10 | 7 |
| 6. Cryo Preserved Allograft. | 4 | 10 | 7 |
| 7. Compression Pump. | 4 | 10 | 7 |
| 8. Pelvic Venous Congestion Syndrome. | 4 | 10 | 7 |
| 9. Pre operative Vein Napping. | 4 | 10 | 7 |
| 10. Carbondioxide Angiogram. | 4 | 10 | 7 |

(LD 028)

AUGUST 2013

Sub. Code:1854

M.Ch. – VASCULAR SURGERY
Paper – IV RECENT ADVANCES IN VASCULAR SURGERY
Q.P.Code: 181854

Time: Three Hours

Maximum: 100 marks

I. Elaborate on:

(2X15=30)

1. Endovascular Treatment of Infra Inguinal Disease and Surgical Management of Infra inguinal disease – merits and demerits.
2. Endovenous Treatment of Varicose Veins – Laser Versus Radio Frequency Ablation.

II. Write notes on:

(10X7=70)

1. Closure Devices.
2. Atherectomy Devices.
3. Drug Eluting Stents.
4. Prasugrel.
5. IVC filters.
6. Tissue – Engineered Grafts.
7. Foam Sclerotherapy.
8. Autologous Stemcells.
9. Trellis Device.
10. Tirofiban.

[LF 028]

AUGUST 2014

Sub. Code: 1854

M.Ch. – VASCULAR SURGERY

Paper IV – RECENT ADVANCES IN VASCULAR SURGERY

Q. P. Code: 181854

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions in the same order.

I. Elaborate on:

(2 x 15 = 30)

1. Describe the recent advances in “Therapeutic angiogenesis” and their future applications.
2. Discuss briefly the principles of laser angioplasty.
Describe the types of lasers available and their relative merits.

II. Write notes on:

(10 x 7 = 70)

1. Intravascular ultrasound.
2. Newer vascular grafts.
3. Compare “In-stent Stenosis” and “Graft restenosis”.
4. Platelet Derived Growth Factor.
5. Cutting balloons.
6. Recent advances in the management of lymphedema.
7. Current theories of renovascular hypertension.
8. Newer imaging techniques in vascular disease.
9. Prostaglandin infusion therapy.
10. Stabilized umbilical vein graft.
