

APRIL - 2001

[KD 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

Branch V — Paediatric Surgery

(Revised Regulations)

Paper IV — RECENT ADVANCES IN PAEDIATRIC  
SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the progress made in "Organ transplantation" in children. (30)
2. Discuss the advances and the changing trends in the diagnosis and management of Hirschsprung's Disease. (30)
3. Write briefly on : (4 × 10 = 40)
  - (a) High frequency ventilation
  - (b) LASERs in Paediatric Surgery
  - (c) Flexible fiberoptic endoscopy in children
  - (d) Recent trends in the diagnosis of gastro-oesophageal reflux.

NOVEMBER - 2001

[KE 051]

Sub. Code : 1704

**M.Ch. DEGREE EXAMINATION**

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

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

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Discuss the role and scope of key-hole surgery in paediatric surgical practice. (30)
  2. Discuss the current concepts in management of Inflammatory Bowel Diseases in children. (30)
  3. Write briefly on :
    - (a) E.C.M.O. (10)
    - (b) Intractable Ascities. (10)
    - (c) V.P. Shunt. (10)
    - (d) Rectal Manometry Study (10)
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MARCH - 2002

[KG 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

Paper IV — RECENT ADVANCES IN PAEDIATRIC  
SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the recent advances made in the management of diaphragmatic hernias in children in the clinical and experimental fields. (30)
  2. What is Foetal surgery describe its applications in the antenatal correction of Congenital malformations available now? (30)
  3. Write short notes on :
    - (a) Tissue expanders (10)
    - (b) OK 436 (10)
    - (c) Genetic markers in Wilms tumor (10)
    - (d) Intestinal transplantations. (10)
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SEPTEMBER - 2002

[KH 051]

Sub. Code : 1704

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Write short notes on

- (a) Bone lengthening (10)
- (b) Use of laser in paediatric surgery (10)
- (c) Video endoscopic foetal surgery (10)
- (d) Pancreatic transplants (10)

M.Ch. DEGREE EXAMINATION

(Higher Specialities)

(Revised Regulations)

Part IV — Branch V — Paediatric Surgery

RECENT ADVANCES IN PAEDIATRIC SURGERY

Time : Three hours

Maximum : 100 marks

Answer ALL questions

1. Describe the role of liver transplantations in children under the following Headings :

- (a) Indications
- (b) Types and methods
- (c) Post operative management
- (d) Prognosis (30)

2. Describe the malignant ovarian tumors under the following :

- (a) Disease classification and staging
- (b) Pathology of germ cell tumors
- (c) Management of germ cell tumors (30)



FEBRUARY - 2005

[K051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

Paper IV — RECENT ADVANCES IN PAEDIATRIC  
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.

I. Essay : (2 × 15 = 30)

(1) Discuss the current concepts in the management of Vesico-ureteric reflux.

(2) Discuss the current concepts in the management of short bowel syndrome.

II. Write short notes : (10 × 5 = 50)

(a) Molecular genetics in Wilms' tumor

(b) Prognostic predictors in Biliary atresia

(c) Indications for orthotopic Liver transplantation in children

(d) Post operative pain relief in children

(e) Antenatal prognostic factors in cong. diaphragmatic hernia

(f) Risk factors predisposing to Neonatal sepsis

(g) High frequency ventilation

(h) Genetic factors in Hirschsprung's disease

(i) Gene therapy in paediatric surgery

(j) Antenatal diagnosis of oesophageal atresia.

FEBRUARY - 2006

[KO 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

Paper IV — RECENT ADVANCES IN PAEDIATRIC  
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.

I. Essay :

(2 × 15 = 30)

(1) Discuss the advances in the management of Hirschsprung's disease.

(2) Discuss the indications and principles of laparoscopy in pediatric age group.

II. Write short notes on :

(10 × 5 = 50)

(a) Prevention of neural tube defects

(b) Hydronephrosis due to Ureteropelvic junction obstruction

(c) Pharmacological therapy of voiding dysfunction

(d) Antenatal therapy in congenital diaphragmatic hernia

(e) Bowel management program in fecal incontinence

(f) Neuroendoscopic surgery for hydrocephalus

(g) Nitric oxide and high frequency ventilation in Congenital diaphragmatic hernia

(h) Role of magnetic resonance Urography

(i) Antenatally detected bilateral hydroureteronephrosis

(j) Postoperative management of children after Kasai procedure for biliary atresia.

**AUGUST - 2006**

**[KP 051]**

**Sub. Code : 1704**

**M.Ch. DEGREE EXAMINATION.**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch V — Paediatric Surgery**

**Paper IV — RECENT ADVANCES IN  
PAEDIATRIC 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.**

**I. Essay :**

**(1) Discuss prenatal and postnatal assessment and clinical approach to a case of antenatally diagnosed hydronephrosis. (20)**

**(2) Discuss the advances in management of Exstrophy repair. (15)**

**(3) Discuss the newer modalities of treatment of congenital diaphragmatic hernia. (15)**

**II. Write short notes on :**

**(6 × 5 = 30)**

**(a) Principles of Gene therapy**

**(b) Small round cell tumours**

**(c) Access for dialysis in children**

**(d) Living related liver transplantation**

**(e) Thoracoscopy in children**

**(f) Laser therapy**

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**FEBRUARY - 2007**

**[KQ 051]**

**Sub. Code : 1704**

**M.Ch. DEGREE EXAMINATION.**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch V — Paediatric Surgery**

**Paper IV — RECENT ADVANCES IN PAEDIATRIC  
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.**

**I. Essay :**

- 1. Discuss Liver transplantation in children. (20)**
- 2. Discuss the recent advances in the management of Neuroblastoma with special emphasis on prognostic factors and tumor genetics. (15)**
- 3. Discuss the role of Laparoscopy in Paediatric Surgery. (15)**

**II. Write short notes on :**

**(6 × 5 = 30)**

- 1. Importance of umbilical cord blood.**
  - 2. Role of OK 432.**
  - 3. Pouch colon.**
  - 4. High frequency oscillatory ventilation.**
  - 5. Barotrauma.**
  - 6. Post splenectomy sepsis.**
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August-2007

[KR 051]

Sub. Code : 1704

M.Ch. DEGREE EXAMINATION.

(Higher Specialities)

(Revised Regulations)

Branch V — Paediatric Surgery

Paper IV — RECENT ADVANCES IN PAEDIATRIC  
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 questions.

I. Essay questions :

1. Discuss all the requirements to setup a neonatal surgical intensive care unit. (20)
2. Describe the etiopathology of empyema thoracis. Discuss the medical and surgical management of this condition including the role of thoracoscopy. (15)
3. Describe techniques to safely access fetus for surgical intervention and discuss potential complications and their management. (15)

II. Write short notes on : (6 × 5 = 30)

- (a) Advantages of robotic technology in pediatric laparoscopy
- (b) Present status of antenatal diagnosis in India
- (c) Laparoscopy in Hirschsprung's disease
- (d) Surgical techniques to minimize complications in choledochal cyst
- (e) Minimally invasive pectus excavatum repair
- (f) Assessment of postoperative results in anorectal malformations.

August 2008

[KT 051]

Sub. Code: 1704

**M.Ch. DEGREE EXAMINATION**

**(Higher Specialities)**

**(Revised Regulations)**

**Branch V – Paediatric surgery**

**Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY**

*Q.P. Code: 181704*

**Time: Three hours**

**Maximum: 100 Marks**

**ANSWER ALL QUESTIONS**

**Draw suitable diagrams wherever necessary.**

**I. Essay:**

**(2 x 20 = 40)**

1. Discuss in detail embryology, various types and operative management of hypospadias in male children.
2. Pathogenesis, Epidemiology, diagnosis, staging and management of wilm's tumor

**II. Write short notes on:**

**(10 x 6 = 60)**

1. Thoracoscopy in empyema thoracis.
  2. Laparoscopy in anorectal anomalies.
  3. Annular pancreas.
  4. Splenic trauma and management.
  5. Multicystic kidney.
  6. Urinary ascitis.
  7. Anterior urethral diverticulum.
  8. High frequency ventilation.
  9. Craniophagus twins.
  10. Microcolon.
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August 2009

[KV 051]

Sub. Code: 1704

**MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS**

**(Super Specialities)**

**Branch V – Paediatric Surgery**

**(Revised Regulations)**

**Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY**

*Q.P. Code: 181704*

**Time: Three hours**

**Maximum: 100 Marks**

**Answer ALL questions**

**Draw suitable diagrams wherever necessary.**

**I. Essays:**

**(2 x 20 = 40)**

1. Discuss the recent trends in the management of primary vesico ureteric reflux in a girl aged 5 years.
2. Discuss the role of laparoscopy in paediatric surgery.

**II. Write short notes on:**

**(10 x 6 = 60)**

1. Cytogenetics of Wilm's tumour.
2. Extracorporeal membrane oxygenation.
3. Substitutes for oesophageal replacement.
4. Endodermal sinus tumour.
5. Conservative management of renal trauma.
6. Rectobulbar urethral fistula.
7. Duodenal web.
8. Liver transplantation in children.
9. Weighert – Meyer rule.
10. Opportunistic post splenectomy infection.

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February 2011

[KY 051]

Sub. Code: 1704

**MASTER OF CHIRURGIAE (M.Ch.) DEGREE EXAMINATIONS**

**(Super Specialities)**

**Branch V – Paediatric Surgery**

**(Revised Regulations)**

**Common to all Candidates**

**Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY**

*Q.P. Code: 181704*

**Time: Three hours**

**Maximum: 100 Marks**

**Answer ALL questions**

**Draw suitable diagrams wherever necessary.**

**I. Essays:**

**(2 x 20 = 40)**

1. Discuss the Molecular Morphogenesis of Oesophagal Atresia. Discuss the Role of Gastric Transportation and Tissue Engineering in Long Gap Oesophageal Atresia.
2. Discuss the various causes of Intestinal Motility Disorder in Children. Describe the spectrum of presentations and Management Options in Hirschsprungs Disease.

**II. Write short notes on:**

**(10 x 6 = 60)**

1. Autologous Intestinal Reconstruction Surgery.
2. Percutaneous Endoscopic Gastrostomy.
3. Persistent Pulmonary Hypertension.
4. Embryology and Classification of Ano-Rectal Malformations.
5. Cytogenetics of Wilms Tumour.
6. Thoracoscopy in Children.
7. Cloacal Exstrophy.
8. Cystoscopy for Vesico-Ureteral Reflux.
9. Laparoscopic Pyloromyotomy.
10. Impalpable Testes.

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August 2011

[KZ 051]

Sub. Code: 1704

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

BRANCH V – PAEDIATRIC SURGERY

RECENT ADVANCES IN PAEDIATRIC SURGERY

*Q.P. Code: 181704*

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 Kidney transplantation under causes of end stage renal disease, donor selection operative procedure and early post operative complications. | 11 | 35 | 15 |
| 2. Discuss under Burns under the following: fluid resuscitation, infection control nutrition, wound care and assessment and pain management.           | 11 | 35 | 15 |

II. Write notes on :

- |                                                                                         |   |    |   |
|-----------------------------------------------------------------------------------------|---|----|---|
| 1. Single incision Laparoscopic surgery appendicectomy and its complication.            | 4 | 10 | 7 |
| 2. Laparoscopic inguinal hernia inversion and ligation in female children.              | 4 | 10 | 7 |
| 3. Role of preoperative ultrasound on correct diagnosis of urachal remnant.             | 4 | 10 | 7 |
| 4. Umbilioplasty with three triangular skin flaps and excised diamond shaped skin flap. | 4 | 10 | 7 |
| 5. Short note on trans anoproctoplasty.                                                 | 4 | 10 | 7 |
| 6. Percutaneous Endoscopic gastrostomy.                                                 | 4 | 10 | 7 |
| 7. Spinal cord injury without radiographic abnormality.                                 | 4 | 10 | 7 |
| 8. Total urogenital mobilization.                                                       | 4 | 10 | 7 |
| 9. Growth hormone in intestinal failure.                                                | 4 | 10 | 7 |
| 10. Abnormal lung development in congenital diaphragmatic Hernia.                       | 4 | 10 | 7 |

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[LB 051]

AUGUST 2012

Sub. Code: 1704

M.Ch – PAEDIATRIC SURGERY

Paper – IV RECENT ADVANCES IN PAEDIATRIC SURGERY

Q.P. Code: 181704

Time : 3 hours  
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Discuss continent urinary Diversion procedures. Mention the advantages and disadvantages of each procedure.	16	35	15
2. Discuss the surgical reconstruction procedures for female gender assignment in an Ambiguous genitalia patient.	16	35	15

II. Write notes on :

1. Write a short note on foetal Endoscopic surgery.	4	10	7
2. Write the advantages, disadvantages and procedures for foetal surgery for cleft lip and palate.	4	10	7
3. Write a note on the role of splenectomy in Hodgkins disease.	4	10	7
4. Post operative complications after inguinal hernia repair.	4	10	7
5. How will you treat mature cystic teratomas of the ovary – recent advances?	4	10	7
6. How will you treat a case of true hermaphrodite?	4	10	7
7. Write a brief note on ureteroscopic techniques for treatment of lower ureteric stones?	4	10	7
8. Role of prenatal intervention of obstructive uropathy?	4	10	7
9. Write a short note on urodynamic studies?	4	10	7
10. Role of prosthetic materials in the management of thermal injuries?	4	10	7

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**(LD 051)**

**AUGUST 2013**

**Sub. Code:1704**

**M.Ch. – PAEDIATRIC SURGERY**  
**Paper – IV RECENT ADVANCES IN PAEDIATRIC SURGERY**  
*Q.P.Code: 181704*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X15=30)**

1. Antenatal diagnosis and postnatal management of unilateral Hydro-nephrosis.
2. Congenital abdominal wall defects.

**II. Write notes on:**

**(10X7=70)**

1. Intussusception – Non operative management.
2. Urinary ascites.
3. Chemotherapy of Wilms' Tumour.
4. Sclerotherapy.
5. Neural tube defects.
6. Oesophageal replacement.
7. Laparoscopic fundoplication.
8. Nephrogenic rests.
9. Neuroblastoma.
10. Ureteric stenting.

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[LF 051]

AUGUST 2014

Sub. Code: 1704

**M.Ch. – PAEDIATRIC SURGERY**

**Paper IV – RECENT ADVANCES IN PAEDIATRIC SURGERY**

*Q. P. Code: 181704*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer ALL questions in the same order.**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the following with reference to a mass abdomen in the infant:

- i) Clinical features
- ii) Investigations
- iii) Differential diagnosis
- iv) Management.

2. Discuss short bowel syndrome with respect to :

- i) Causes
- ii) Clinical Picture
- iii) Complications
- iv) Management.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Day care surgery in children.
2. Polytrauma in children.
3. Ano rectal manometry.
4. Split notochord syndrome.
5. Craniosynostosis.
6. Uses of Laser in paediatric surgery.
7. Stem cell therapy.
8. Physiological jaundice.
9. Role of laparoscope in undescended testis.
10. Lung pathology in congenital diaphragmatic hernia.

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