

Structured training and learning programme for MCh residents-Department of Urology,SMS Medical college and attached hospitals Jaipur

1.Learning Outcomes:

- a) Acquisition of current, latest, scientific and evidence based knowledge necessary for attaining programme outcomes
- b) Skill to undertake independent clinical practice thereby delivering the highest standard of Urologic care to the community
- c) Correct attitude of responsibility, accountability and caring
- d) Foundation of ethical values in the practice of Urology
- e) Competency to communicate effectively with patients, peers, colleagues, and the community in the discharge of his/her clinical role
- f) Skill in academic and research aspects of Urology
- g) Skill to be an effective teacher and communicator in Urology

1. Syllabus:

It will cover wide spectrum of the diseases of urogenital system & retroperitoneum. Apart from the clinical aspect of these subjects, candidate has to acquire in depth knowledge of the related basic subjects like applied; anatomy, embryology, physiology, biochemistry, pharmacology, pathology, microbiology, epidemiology, immunology

- a) Anatomy and Embryology of GU tracts, adrenal & retroperitoneum
- b) Applied physiology and biochemistry pertaining to Urology, Nephrology, renal transplantation and renovascular hypertension

- c) Investigative urology & Genito-urinary radiology and imaging including nuclear medicine
- d) Male Infertility, Andrology and Urological endocrinology
- e) Sexual dysfunction- investigations and management
- f) Perioperative care, management of urological complications and care of the critically ill patients
- g) Urodynamic and Neurology
- h) Genito-urinary trauma
- i) Urolithiasis: Medical, Biochemical & Surgical aspects
- j) Uro-oncology-Adult & Paediatric
- k) Reconstructive Urology
- l) Paediatric Urology-congenital malformations and acquired diseases
- m) Urinary tract infections and sexually transmitted diseases.
- n) Obstructive Uropathy
- o) Renal transplantation (including transplant immunology medical & surgical aspects)
- p) Renovascular Hypertension
- q) Gynaecological urology
- r) Newer developments in urology
- s) Operative Urology-open & endoscopic
- t) Endourology
- u) Behavioural and social aspects of urology
- v) Neonatal problems in Urology
- w) Electrocoagulation, lasers, fibre optics, instruments, catheters, endoscopes
- x) Retroperitoneal Diseases & Management
- y) Medical aspects of the kidney diseases
- z) Laparoscopic Urologic Surgery.

Apart from above mentioned subjects, each candidate should have basic knowledge of the following:

- A) Biostatistics & Epidemiology (Biomedical research training)
- B) Computer Sciences, Data recording, Power point presentation, Video editing, video recording and medical photography
- C) Experimental & Research methodology and Evidence Based Medicine
- D) Scientific presentation.
- E) Ethics in medicine
- F) Medico legal aspect relevant to discipline

2. Teaching Learning Methods

The resident has to participate in seminars, journal clubs, symposiums, operative chats and case discussions. Problem oriented training to be given in the form of case-discussions, grand ward rounds, inter-disciplinary meetings and departmental statistical meetings, clinical audit, mortality and morbidity review

Research

Each candidate has to carry out clinical studies, which should be acceptable for publication in an Indian Journal or any International Journal.

A poster and one oral presentation at least once during their training period in Zonal and National conference

Training in Operative Urology

Special attention will be paid to improve the operative skill of the M.Ch. trainee. He shall be trained to take independent operative decisions. In a time bound schedule an opportunity will be accorded to perform all the

major open as well as endoscopic procedures so as to let him develop mastery in the essential procedures. Candidate will be required to maintain a logbook of operative procedures with details of complications, if any, and their management. This will be reviewed regularly. Completed logbook is to be submitted before the practical examination and will be reviewed by the external examiners.

Ward duties: Residents should be available round the clock in the ward during duty hours as per schedule. Second and third years should take regular rounds, supervise and guide the juniors

OPD duties: Residents in OPD should examine patients under supervision of the concerned faculty

Emergency duties: Residents have to be on 24 hours emergency duty as per schedule and see references from various departments and inform the seniors and concerned faculty.

First Year

He will assist and perform the following procedures:

- A) Endoscopic urological procedures: Urethrocystoscopy, DJ stent removal & insertion, optical internal urethrotomy (OIU), co-axial urethral dilation, cystolitholapaxy, cystolithotripsy, retrograde and antegrade pyelography, PCN insertion
- B) Open urological procedures: Needle biopsy of the prostate, suprapubic cystostomy (both trocar & open SPC), orchidectomy, hydrocelectomy, circumcision, excision of urethral caruncle, meatoplasty, cystolithotomy, ureterolithotomy
- C) Investigative urology: Ultrasound KUB, transrectal ultrasound (TRUS), retrograde urethrogram (RGU), static & micturating cystogram (MCU), retrograde ureteropyelogram (RGP), antegrade contrast study of KUB,

nephrostogram, sinusograms and ESWL.

Second Year

He will assist and perform the following procedures:

- a) Endoscopic urological procedures: Transurethral resection of bladder tumor (TURBT), transurethral resection of prostate (TURP), percutaneous nephrolithotomy (PCNL) for simple renal pelvic stone, URSL for lower ureteric stones
- b) Open urological procedures: Urethroplasty, perineal urethrostomy, partial & total penectomy, simple nephrectomy, orchidopexy, varicocelectomy, simple prostatectomy (retropubic/transvesical), pyelolithotomy, ureterolithotomy, renal transplants donor and recipient

Third Year

He will assist and perform the following procedures:

- a) Endoscopic urological procedures: Transurethral resection of bladder tumor (TURBT), transurethral resection of prostate (TURP), percutaneous nephrolithotomy (PCNL) for complex (partial/complete stag horn) renal stone, URSL for all ureteric stones, RIRS, TRUS guided prostate biopsy, BNI, Ureterocele incision, Hydro distension
- b) Open & laparoscopic urological procedures: Pyeloplasty, simple/anatrophic nephrolithotomy, Radical nephrectomy, nephroureterectomy, nephrectomy for pyonephrosis, urethroplasty, hypospadias repair, Epispadias-exstrophy complex, radical cystectomy with urinary diversion (neobladder or ileal conduit), augmentation cystoplasty, Boari's flap procedure, ureteroneocystostomy, ileal replacement of ureter, radical prostatectomy, radical cystectomy with neobladder or ileal conduit, vesicovaginal fistula (VVF) repair, ilioinguinal/retroperitoneal lymph node dissection, all laparoscopic urologic surgery and renal transplants.

3. Interdisciplinary Training:

All residents will participate in Interdepartmental meetings like uroradiology, uronephrology, uroradiotherapy and uropathology to provide an opportunity for open discussion on a common subject and to also provide an opportunity to learn views of the specialists on these subjects.

Exchange programme: 2 weeks exchange with another teaching Urology department in the country .

4. Assessment Methods:

The department will hold yearly in-house exams to see the progress of the student. Appearance in these examinations is mandatory. The final M.Ch. examination will be held at the end of 3-academic years and will be governed by Controller of Examination, RUHS, Jaipur. The examinations will be organized on the basis of grading or marking system to evaluate and certify the candidate's level of knowledge, skill and competence at the end of the training. Obtaining a minimum of 50% marks will be mandatory for passing the whole examination. There will be 4 theory papers. One paper out of these will be on Basic Medical Sciences, and another paper on Recent Advances. However, the examiners have the freedom to ask any question from the syllabus or related topics in any paper. There will be a Practical/ Clinical Examination after the theory papers. Only those candidates who fulfill all the prerequisites (like paper publication, seminar presentations) will be allowed to appear in final M.Ch. examinations.

Urology Gold Medal will be awarded to a final year candidate for his outstanding performance in the Mch Final examination as assessed by the examiners.

INTERNAL ASSESSMENT OF PERSONAL ATTRIBUTES

UNIT						
PERIOD OF POSTING						
WORK ETHICS*						
MOTIVATIONAL LEVEL**						
SINCERITY***						
WORK PERFORMANCE****						
ACADEMIC***** ABILITIES						
INTERPERSONAL SKILLS						
BEDSIDE BEHAVIOUR						

SIGNATURE OF UNIT HEAD:

*Punctuality, availability on duty, response to calls, leave with permission

**eager to learn, takes initiative and responsibility

***dependable, works truthfully

****dedicated, denotation, learning sills, competence

*****soundness of knowledge and skills, participation in academic activities, self learning ability.

DEPARTMENT OF UROLOGY
S.M.S MEDICAL COLLEGE JAIPUR
INTERNAL ASSESMENT EXAMINATION MARKS

YEAR	THEORY	PRACTICAL
I YEAR		
II YEAR		
III YEAR		

FIRST YEAR

1 SKILL PROFICIENCY

Unit						
Period of posting						
Patient Handling Outdoor/Emergency /Indoor/Neonatal / Preop / Postop/Surgical/ Anaesthesia						
Handling of samples/slides						
Decision making/formulation of management plan						
Performance in Proce- dures- ward/emergency/ anaesthesia/surgical/ cardiac/ nephro/ others						
Performance in lab procedure-No. (grade) Hematology/ cytology/ histopathology/ Microbiology/ biochem/ blood bank						
Analytical skills in lab reporting						
Handling of equipment						
Record keeping						
Confidence						
Surgical skills						
Others						

(GRADING 1-5, 1 = EXCELLENT, 5=POOR)

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Confidence						
Surgical skills						
Others						

(GRADING 1-5, 1 = EXCELLENT, 5=POOR)

FIRST YEAR

LIST OF SURGERIES/PROCEDURES OBSERVED

Sr. No.	Date	Activity/ Procedure	Name of Patient	OPD/Emergency/ Cr No.	Signature of SR/ Faculty

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FIRST YEAR

4 ATTENDANCE RECORD

	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Held	%Attendaed	Held	%Attendaed	Held	%Attendaed	Held	%Attendaed
Case Presentation								
Seminar								
Journal Club								
Statistical/ mortality meet								
Grand Round								

5 PRESENTATION

CASE - (GRADE-1-excellent, 2-acceptable, 3-below expectation)

History - (completeness, cogency																				
Examination																				
Diagnosis (whether follows logically from history & clinical findings																				
Appropriateness of investigation																				
Critical analysis of investigation Hemat / cyto/ histo etc.																				
Management																				
Approach to diagnosis																				

Details of Cases

Details of Cases

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FIRST YEAR													
6 SEMINAR (GRADE - 1 excellent, 2 - acceptable, 3 - below expectation)													
Date													
Topic Number													
Moderator													
Completeness of presentation													
Understanding of subject													
Review of relevant literature													
Handling of questions													
Use of audiovisuals													
Overall presentation													

List of seminars presented

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

FIRST YEAR													
7 JOURNAL CLUB (GRADE - 1 excellent, 2 - acceptable, 3 - below expectation)													
Date													
Topic Number													
Moderator													
Completeness of presentation													
Understanding of subject													
Review of relevant literature													
Handling of questions													
Use of audiovisuals													
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SECOND YEAR

1 DETAILS OF POSTING

FROM	TO	DURATION	UNIT/PG TEACHER

2. PERSONAL ATTRIBUTES

Unit						
Period of posting						
Work Ethics*						
Motivational Level**						
Sincerity***						
Work Performance****						
Academic***** Abilities/efforts						
Interpersonal Skills						
Bedside Behaviour						

*Punctuality, availability on duty, response to calls, leave with permission

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SECOND YEAR

4 ATTENDANCE RECORD

	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Held	%Attendaed	Held	%Attendaed	Held	%Attendaed	Held	%Attendaed
Case Presentation								
Seminar								
Journal Club								
Statistical/ mortality meet								
Grand Round								

5 PRESENTATION

CASE - (GRADE-1-excellent, 2-acceptable, 3-below expectation)

History - (completeness, cogency																							
Examination																							
Diagnosis (whether follows logically from history & clinical findings																							
Appropriateness of investigation																							
Critical analysis of investigation Hemat / cyto/ histo etc.																							
Management																							
Approach to diagnosis																							

Details of Cases

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SECOND YEAR													
6 SEMINAR (GRADE - 1 excellent, 2 - acceptable, 3 - below expectation)													
Date													
Topic Number													
Moderator													
Completeness of presentation													
Understanding of subject													
Review of relevant literature													
Handling of questions													
Use of audiovisuals													
Overall presentation													

List of seminars presented

- 1
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- 7
- 8

SECOND YEAR

7 JOURNAL CLUB (GRADE - 1 excellent, 2 - acceptable, 3 - below expectation)

Date																				
Topic Number																				
Moderator																				
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Understanding of subject																				
Review of relevant literature																				
Handling of questions																				
Use of audiovisuals																				
Overall presentation																				

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THIRD YEAR

1 DETAILS OF POSTING

FROM	TO	DURATION	UNIT/PG TEACHER

2. PERSONAL ATTRIBUTES

Unit						
Period of posting						
Work Ethics*						
Motivational Level**						
Sincerity***						
Work Performance****						
Academic***** Abilities/efforts						
Interpersonal Skills						
Bedside Behaviour						

*Punctuality, availability on duty, response to calls, leave with permission

**eager to learn, takes initiative and responsibility

***dependable, works truthfully

****dedicated, denotation, learning sills, competence

*****soundness of knowledge and skills, participation in academic activities, self learning ability.

(GRADING 1-5, 1 = EXCELLENT, 5=POOR)

THIRD YEAR

1 SKILL PROFICIENCY

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Period of posting						
Patient Handling Outdoor/Emergency /Indoor/Neonatal / Preop / Postop/Surgical/ Anaesthesia						
Handling of samples/slides						
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Surgical skills						
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THIRD YEAR

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5 PRESENTATION

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PROTOCOL / THESIS

PROTOCOL

Review at Department level (Date)

Review by Institutional Review Board (Date)

MIDTERM EVALUATION OF THESIS

Recruitment of cases

Collection of data

Progress (adequate/not adequate)

THESIS - FINAL EVALUATION

Introduction

Review of literature

Methods

Observations

Results

Discussion

Summary and conclusion

Bibliography

LIST OF CONFERENCES/WORKSHOPS/CME'S ATTENDED

LIST OF PAPER'S/PRESENTED/PUBLISHED/SENT FOR PUBLICATION

LIST OF GUEST LECTURES/SYMPOSIA ATTENDED

FORMAL EVALUATION

YEAR	THEORY Marks obtained / Max marks	PRACTICAL Marks obtained / Max marks	TOTAL
1st			
2nd			
3rd			

FINAL COMMENTS

HEAD OF DEPARTMENT

HEAD OF INSTITUTION

RESEARCH ARTICLE

Abstract -

RESEARCH ARTICLE

Abstract -

RESEARCH ARTICLE

Abstract -

DEPARTMENT OF UROLOGY & RENAL TRANSPLANTATION
S.M.S. MEDICAL COLLEGE & HOSPITAL
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