

MS IN UROLOGY

ZIAUDDIN UNIVERSITY HOSPITAL

(Revised 2014)

This is a 5 years degree course in Urology (2+3 yrs) i.e 02 yrs of General Surgery and 03 yrs of Urology which will prepare the trainee to work as a qualified surgeon in Urology and / or pursue an Academic Career

1. Objective

At the end of the training of MS in Urology, the candidate should have developed the following skills:

Clinical

- Obtain patient history.
- Perform detailed physical examination.
- Correlate above data to formulate diagnosis.
- Plan appropriate investigations & interpret results.
- Initiate comprehensive management of urology Patients independently.
- Deal effectively and promptly with complications as & when they arise.
- Prepare concise summary of cases, initiate clinical audit and self evaluation techniques.

Administrative

1.2.1 Be a role model member of patient care team and display communication skills with other health professionals, community, patient's family etc.

1.2.2 Ability to advise or organize training for other professional / paramedical colleagues & trainees in areas pertinent to his own interest and acquired skills.

1.3 Research

The prime objective of research training in clinical medicine is to promote/enhance critical thinking in day to day professional life.

A CANDIDATE AT THE END OF THE TRAINING SHOULD BE ABLE TO :

1.3.1 Critically evaluate papers and publications for clinical applications.

1.3.2 Collect, and Organize data.

1.3.3 Express the data in writing.

2. Eligibility

(All experience must be at institutions recognized by PMDC)

2.1 MBBS or equivalent.

2.2 One year of House Job with six months in Surgery.

2.3 02 years experience in General Surgery for entrance into year 03 of programme

2.4 Candidates will be required to pass an entrance test and an interview.

3. Duration of training

Minimum of 03 years if has already completed 02 yrs of General Surgery or otherwise 05 yrs(2+3)

4. Structured training program

The training program of 5 years. This training will be under the supervision of the respective faculty.

Year	Specialty
Year 1	General Surgery
Year 2	General Surgery
Year 3	Urology
Year 4	Urology
Year 5	Urology

4.1 Guide to the training rotation

a) General Surgery (02 years).

Rotations in General Surgery to be decided by the concerned head of the unit/programme director General Surgery

b) General Urology (03 years).

Compulsory Rotation to the following specialties during urology training will be made

Specialty	Duration
Adult Urology	29 months
Paediatric surg /paeds urology	03 months
Casualty	06 weeks
Surgical ICU	06 weeks
Transplant Urology	04 weeks
Gynaecology	12 OR Lists(while posted in adult urology)
Radiology skills	U/S kidneys (20 SP) U/S Prostate (05 SP) PCN (05 SP) TRUS Prostate (Observe) Renal biopsy (Observe)

NB : Durations of specialty rotations can be altered as per service requirements.

4.2 Workshops (1st and 2nd year)

Compulsory:

Research Methodology (epidemiology, biostats,SPSS)
Communication skills.

Optional:

BLS, ATLS,
Medical writing and bioethics.
Computer skills

5. Evaluation and Examinations

The Evaluation process will include :

- a) Continuous evaluation through evaluation forms and log books.
- b) M.S. part 1 examination within 1 year of joining. Promotion to next year will be subject to passing the part-I exam or term exam and evaluation by supervisor.
- c) M.S. final qualifying exam; at the end of 5 years.
- d) Defense of thesis within 1 year of final MS examination.

5.1 Evaluation Forms

Three monthly evaluations will be done by the consultant concerned on evaluation forms provided by the postgraduate office and sent back, duly filled, with counter signature of the training supervisor to whom the trainee is assigned.

5.2 Log Books

Prescribed log books must be taken from the postgraduate office on submission of a certain fee and maintained regularly by the trainees. These must be submitted to the Dean's office each year to evaluate the status of training.

5.3 MS Part I Examination

This exam can be taken before or within the first year of starting the MS Urology program. This will comprise two papers.

Paper-I: This will comprise MCQs / BCQs in applied anatomy (35%), Physiology (25%), Pathology/ Microbiology (30%), related Pharmacology (10%).

Paper-II: MCQs / BCQs / SEQs on the general principles of Surgery.

5.4 M.S. Final Examination

At the end of a minimum of 5 years of training the trainee will have to appear in the MS final examination of Ziauddin University.

This will comprise MCQs, SEQs, TOACS / clinical / orals. This will be an examination in clinical subjects.

5.5 Thesis

Synopsis: By the end of the year 03 (Year 01 of urology) of training a synopsis defining the subject of the research, the objectives, the methodology and a few references must be submitted to the Dean's office. This will be finally approved by the Board of Advance Studies & Research.

Final Thesis: By the end of training a final thesis must be submitted to the Dean's office for evaluation and final approval by the Board of Advance Studies & Research. Before being awarded the MS degree the candidate will undergo a defense of the thesis before an examining committee.

Publications: One paper based on the thesis or another topic to be published / accepted for publication in journals listed in the index medicus or those local journals which are recognized by PMDC. This will be considered as an independent external evaluation.

5.6 Extension

After passing the final examination a period of extension may be allowed, upto a maximum of 2 years to complete the requirement of thesis and Papers, while continuing with clinical responsibility as per hospital requirements.

6. Competency levels

The evaluation of competence of a specialist is a varied and complex issue to be judged with certainty. However, evaluation of skills can be taken as a guideline only in the general evaluation process. An individual can attain the highest level of competence in the 1st year but the following is what is the minimum expected.

In the following tables competence levels have been classified into

O : Observer status

A : Assistant status

SP : Supervised performance

P : Performance independently

6.1 General skills

Skills	At 1 yr	At 2 yr	At 3 yr	At 4 yr	At 5 yr
Obtains pertinent history	P	P	P	P	P
Performs physical examinations	P	P	P	P	P
Orders appropriate investigation & interprets results	P	P	P	P	P

Decides & implements correct treatment	SP	SP	P	P	P
Carries out self evaluation audits, & research activities	SP	P	P	P	P
Maintains follow up & records of patients	P	P	P	P	P

6.2 Surgical skills

1st and 2nd year: As per the General Surgery programme Ziauddin University.

3rd to 5th Year: Operative surgery has been broadly classified into four categories. These include:

Minor Operations & procedures:

Suturing of wounds, excision of small lumps & lesions, cut downs, i.v. cannulation , circumcisions, suprapubic catheterization, cvp line insertion, double lumen catheter insertion.

Intermediate operations:

Cystoscopy, OIU, Cystolithotomy, Reterograde catheterization, DJ stenting, Ureterolithotomy, Abdominal closure, Herniorraphy, etc.

Major operations:

E.g. TURP, TURBT, Pyelolithotomy, Uretero-rensoscopy and lithoclast, simple nephrectomy, etc.

Extra Major Operations:

Urethroplasty, hypospadias repair radical cancer surgery, Laparoscopic urology procedures etc.

7. MINIMUM COMPETENCE REQUIRED

An individual can achieve a higher degree of competence from the 1st year, if capable. The following is the minimum competence required.

Operations	End of 1 yr	End of 2 yr	End of 3 yr	End of 4 yr	End of 5 yr
Minor	SP	P	P	P	P
Intermediate	A	SP	SP	P	P
Major	A	A	SP	SP	P
Extra major	A	A	A	A	SP

8. EXEMPTION

- Where candidates have had training in other institutions and / or have a postgraduate qualification the Head of the Department may recommend, on a case to case basis, to grant exemption from part of the training program upto a maximum of two years(With 5 Yr.Programme).
- The recommendation will be forwarded through the training supervisor who will present the case for exemption to the Dean after a three month evaluation period from the start of the training.
- The Dean will consider the years of the training in the respective specialty, any gaps in training postgraduate certification e.g. Part-I, Part-II etc. and the three months evaluation by the supervisor and the Head of the Department then send it to BASR for final approval.
- Candidate with part-I FCPS or one of the Royal Colleges can be considered for exemptions from Part-I MS exam.

9. Recommended Academic Schedule

The following are recommended as the minimum requirement:

9.1 Two outpatient clinics per week.

9.2 One teaching ward round per week.

9.3 Two Operating sessions per week (assisting).

9.4 One Academic activity per week including the Following in rotation

- Formal case presentation in the wards or in hospital clinical meetings.
- Topic presentations(Basic principles in urological surgery).
- Journal Club
- Surgical audit including mortality & morbidity of the wards.
- Uro-Radiology meeting combined with radiology department focusing on clinical as well advance radiology imaging diagnostic modalities

9.5 Daily “Emergency admission & management review meeting” is desirable.

10. Recommended reading

10.1 CAMPBELL TEXT BOOK OF UROLOGY

10.2 SMITHS UROLOGY

10.3 OXFORD HAND BOOK OF UROLOGY

10.4 HINMANN'S OPERATIVE PROCEDURES ON UROLOGY

10.5 Bailey & Love's : short practice of surgery

Revised by Charles V. Mann, R.C.G. Russell & Normal S. Williams 22nd Ed. (Chapman& Hall)

10.6 Last's Anatomy: Regional & Applied

Edited. By R.M.H., McMinn, 9th Ed.(Churchill living stone)

10.7 Clinical Anatomy for Medical students by Richard S. Snell. 5th Ed.

10.8 Pye's surgical Handicraft

Edited by Hamiton Bailey

10.9 Essential surgical practice by A. Cusheiri

10.10 Operations surgery & management by G. Keen

10.11 Operative surgery by R.M. Kirk

10.12 Anatomical complications in Surgery.

10.13 Farquharson's textbook of operative surgery

edited by R.F. Rintoul

10.14 Guyton's physiology

10.15 Surgery by Schwartz

10.16 Journals :

European Urology

European association of Urology guidelines

British journal of Urology

Journal of Urology

Urology Times

Gold journal of Urology(society of international urology).

British Journal of Surgery.

American Journal of Surgery.

Journal of RCS Edinburgh.

Journal of RCS England.

