

**Compulsory Egyptian Medical Training Authority
“Egyptian Board”**

General Surgery Training Manual

This manual is considered to be the trainees guide during their hospital years of training; it explains their duties & responsibilities for each year.

It also contains the specified job description of the trainers & educational supervisors.

Relevant evaluation forms & documentation of the training process are included in the manual.

2018

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The Structure of the General Surgery Training Program

The Egyptian Board in General Surgery requires five year training program that must be conducted in accredited hospitals by the board before sitting for the final examination. During the entire training program, the candidate must be dedicated full time.

Training is mainly in the general surgery department including all activities & clinical encounters, in addition to rotations in the different surgical specialties according to the following table:

Year	Departments
First	<ul style="list-style-type: none">• General Surgery (8 months)• Emergency (2 months)• ICU (2 months)
Second	<ul style="list-style-type: none">• General Surgery (12 months)
Third	<ul style="list-style-type: none">• Pediatric Surgery (2 months)• Vascular Surgery (2 months)• Plastic Surgery & Burn (2 months)• Orthopedics (2 months)• Urology (2 months)• Neurosurgery (1 months)• Cardiac surgery (1 months)
Fourth	<ul style="list-style-type: none">• General Surgery (12 months)
Fifth	<ul style="list-style-type: none">• General Surgery (12 months)

Weekly Activities
(Applied to all years of training)

Title	Number of Days
Morning endorsement & ward round	Daily
Outpatient Department	1
Operating Room	1
Clinical Grand Round	1
Emergency Department	1
Scientific Activities (morbidity & mortality meeting – lectures – journal club – case presentation – audit)	1

- This structure is partially applicable for the rotation in the ICU according to the relevant activities.

Candidates of first & second years of training must successfully complete the following courses:

- 1- Basic Surgical Skills (including intestinal & vascular anastomoses)**
- 2- Basics of Laparoscopy**
- 3- Basic Life Support**
- 4- Trauma Course**
- 5- Patient Safety**
- 6- Research Methodology**
- 7- Infection Control**
- 8- Medical Ethics**
- 9- Communication Skills**
- 10- ICDL**

Surgical procedures

Surgical Procedures distributed over the Five Years

Table Key: Five point scale (level of contribution)

F1	Has observed
F2	Has assisted
F3	Can do with assistance
F4	Can do whole but may need assistance
F5	Competent to do whole without assistance, including managing complications

Code	Subject	1 st year		2 nd year		3 rd year		4 th & 5 th years	
		No	Level	No	Level	No	Level	No	Level
1	Neck & Salivary Gland Surgery								
1.1	Excision of thyroglossal cyst/Fistula	1	F2	1	F3			1 1	F4 F5
1.2	Excision of branchial cyst / fistula	1	F1	1	F2			1 1	F3 F4
1.3	Cervical lymph node biopsy	2	F2	2 2	F2 F3			2 2	F4 F5
1.4	Block dissection of the neck	1	F1	2	F2			2	F4
1.5	Submandibular sialadenectomy	1	F2	2	F2			2 1	F3 F4
1.6	Parotidectomy			2	F1			2	F2
2	Breast Surgery								
2.1	Drainage of breast abscess	2 1	F2 F3	2 2	F3 F4			4	F5
2.2	Surgery for Benign Breast Conditions (lumpectomy, major duct excision, microdochectomy, etc)	3	F2	2 2	F3 F4			6	F5
2.3	Mastectomy with Axillary Nodes Dissection	3	F2	2 2	F3 F4			3	F4
2.4	Wide Local Excision with Axillary Nodes Dissection	2	F2	2	F3			2	F4
2.5	Breast Mass Core Biopsy (Tru-cut)	2	F2	2	F3			2 1	F4 F5
2.6	Sentinel Lymph node sampling	1	F1	2	F2			1 1	F2 F3
3	Vascular & Lymphatic Surgery								

3.1	Arterial repair					2 2	F2 F3		
3.2	Embolectomy					1	F2		
3.3	Arterial bypass surgery					1	F2		
3.4	Aneurysm surgery					1	F2		
3.5	Arteriovenous fistula					2 1	F2 F3		
3.6	Varicose vein surgery					2 2	F2 F3		
3.7	Amputations (Above & below Knee)					2 2 2	F2 F3 F4		
4 Plastic Surgery									
4.1	Operations on skin & subcutaneous tissues					3 3 3	F3 F4 F5		
4.2	Operations on muscles & tendons					3 2	F2 F3		
4.3	Skin graft					2 1	F2 F3		
4.4	Skin flap					2 1	F2 F3		
4.5	Cleft lip/palate					2	F2		
4.6	Plastic Breast Surgery					2	F2		
4.7	Abdominoplasty					2	F2		
5 Endocrine Surgery									
5.1	Thyroidectomy	5	F2					5 5	F3 F4
5.2	Parathyroidectomy			1	F1			2	F2
5.3	Adrenalectomy			1	F1			2	F2
6 Cardiothoracic Surgery									
6.1	Chest tube insertion					2 2 1	F2 F3 F4		
6.2	Pleural aspiration					1	F1		
6.3	Thoracotomy					2 2	F1 F2		

7	Neurosurgery								
7.1	Evacuation of intracranial hematoma					2	F1		
7.2	Laminectomy / Discectomy / Fixation of Spines					2	F1		
7.3	Nerve repair					2	F2		
7.4	Intracranial surgery					1 1	F1 F2		
7.5	Carpal Tunnel Syndrome					2	F2		
8	Orthopedic Surgery								
8.1	Closed reduction of fractures					3 3	F1 F2		
8.2	Internal fixation of fractures					3 2	F1 F2		
8.3	Arthroplasty (hip - knee)					2	F1		
9	GIT & Abdominal Surgery								
9.1	Exploratory laparotomy	3	F2	3	F3			5	F4
9.2	Esophageal surgery			1	F1			2	F2
9.3	Peptic Ulcer Surgery	1	F1	2	F2			2	F3
9.4	Gastrectomy	2	F2	3	F2			2 1	F2 F3
9.5	Gastrostomy / Jejunostomy	2	F2	1	F3			2	F4
9.6	Splenectomy	1	F1	2	F2			2 2 1	F2 F3 F4
9.7	Hepatic Surgery	1	F1	2	F2			2	F3
9.8	Open Cholecystectomy	2	F2	2	F3			4	F4
9.9	Laparoscopic Cholecystectomy	5	F2	5	F2			10 2	F3 F4
9.10.	Bile duct surgery	1	F2	2	F2			3	F3
9.11	Drainage of pancreatic pseudocyst			1	F1			1	F2
9.12	Pancreatectomy			1	F1			1	F2
9.13	Small bowel resection anastomosis	5	F2	2	F3			2 2	F3 F4
9.14	Ileostomy	1	F2	1	F2			1	F3
9.15	Colectomy	2	F1	1	F2			2	F3
9.16	Colostomy	1	F2	1	F2			1	F3

9.17	Anterior resection of rectum							1	F2
9.18	Abdomino-perineal resection of rectum			1	F2			2 1	F2 F3
9.19	Appendectomy	5 5	F2 F3	10	F3			10 5	F4 F5
9.20	Hemorrhoidectomy	2 1	F2 F3	5	F3			5 5	F4 F5
9.21	Anal fissurectomy	4 1	F2 F3	5	F3			5 5	F4 F5
9.22	Anal fistula surgery	1	F2	2 2	F2 F3			5 2	F4 F5
9.23	Drainage of perianal abscess	3 3	F2 F3	4	F3			5 2	F4 F5
9.24	Pilonidal sinus surgery	2	F2	4	F3			3 3	F4 F5
9.25	Repair of epigastric / umbilical / paraumbilical hernia	5 2	F2 F3	5 5	F3 F4			5 5	F4 F5
9.26	Repair of inguinal hernia	5 2	F2 F3	5 5	F3 F4			10 5	F4 F5
9.27	Repair of femoral hernia	1	F1	2	F2			1	F3
9.28	Incisional hernia repair surgery	2	F2	3	F2			5 4	F4 F5
9.29	Bariatric Surgery							1 1	F1 F2
10 Pediatric Surgery									
10.1	Pediatric Inguinoscrotal surgery					5 5	F2 F3		
10.2	Surgery for Pediatric GIT Obstruction (e.g. TEF, pyloric stenosis, intestinal atresia, Hirschsprung disease, anorectal malformation)					2 2	F1 F2		
10.3	Hypospadias repair					1 1	F1 F2		
10.4	Male Circumcision					2 2 2	F2 F3 F4		
11 Urological Procedures									
11.1	Insertion of urinary catheter					2 3	F2 F3		

								3	F4		
11.2	Nephrectomy							2	F2		
11.3	Endourological procedures							4	F2		
11.4	Open urinary stones surgery (kidney, ureter & bladder)							2	F2		
11.5	Suprapubic cystostomy							1 1	F1 F2		
11.6	Cystectomy							1 1	F1 F2		
11.7	Prostatectomy							1 1	F1 F2		
11.8	Varicocelectomy							2 2	F2 F3		
11.9	Hydrocelectomy							2 2	F2 F3		
11.10.	Orchidectomy							1 1	F2 F3		
12 Miscellaneous											
12.1	Insertion of central venous line / Portacath	2	F2							2	F3
12.2	Endotracheal intubation	2	F2								
12.3	Tracheostomy	2	F2							2	F3
12.4	Lymph node biopsy	2	F2	2	F3					5	F4
Total		104		117		133		204		558	

Trainees' Duties & Responsibilities

	1 st year	2 nd year	3 rd year	4 th year	5 th year
1- Inpatient department	<ul style="list-style-type: none"> • Clerking all admissions (history & physical examination) • Attend then perform daily rounds • Supervised investigation requests • Follow & obtain results of investigations & report to seniors • Plan the treatment under supervision • Follow up referrals & consultations to other specialties • Observe seniors while informing patient about their illness, treatment, prognosis & taking consent for procedures • Prepare patients for surgery • Check completeness of patient medical records & complete when needed • Arrange patient discharge, post-discharge treatment & follow up appointments 			<ul style="list-style-type: none"> • Clerking all admissions (history & physical examination) • Perform daily rounds • Request investigation • Modify treatment according to investigation results • Plan the treatment • Ask for referrals & consultations to other specialties • Inform patients about their illness, treatment, prognosis & taking consent for procedures • Prepare patients for surgery • Check completeness of patient medical records & complete when needed • Discharge patients, plan post-discharge treatment & follow up 	
	1 st year	2 nd year	3 rd year	4 th year	5 th year
2- Outpatient department	<ul style="list-style-type: none"> • Attend OPD • Examine patients under supervision • Ask for investigations & prescribe treatment under 			<ul style="list-style-type: none"> • Attend OPD • Examine patients • Ask for investigations & prescribe treatment 	

	supervision				
	1 st year	2 nd year	3 rd year	4 th year	5 th year
3- Emergency room	<ul style="list-style-type: none"> • Assistance to the first on call • Conduct 1ry assessment & order treatment under supervision • Suggest admission of patients 			<ul style="list-style-type: none"> • Attend as first on call • Conduct 1ry & 2ry assessments & order treatment • Admit patients 	<ul style="list-style-type: none"> • Attend as second on call • Conduct 1ry & 2ry assessments & order treatment • Admit patients
	1 st year	2 nd year	3 rd year	4 th year	5 th year
4- Operating room	<ul style="list-style-type: none"> • Follow the surgical procedure schedule distributed on the five years (see below) • Write operative notes & postoperative treatment 				
	1 st year	2 nd year	3 rd year	4 th year	5 th year
5- Scientific activities	<ul style="list-style-type: none"> • Attend daily & grand rounds • Case presentation in daily rounds • Attend morbidity & mortality meetings • Participate in journal clubs • Attend lectures 			<ul style="list-style-type: none"> • Perform daily rounds • Attend grand round • Case presentation in scientific meetings • Prepare morbidity & mortality meetings • Prepare journal clubs • Prepare & conduct lectures • Participate in local & international conferences 	