

# **The Iraqi Board For Medical Specializations.**



## **The academic Curriculum of scientific council of reconstructive and aesthetic surgery**

### **Introduction:**

Plastic surgery, the functional, structural, and aesthetic restoration of all manner of defects and deformities of the human body. It's a unique specialty that defies definition and is based on principles rather than specific procedures. This allows the plastic surgeon to solve unusual problems, to operate from the top of the head to tip of the toe, to a play known procedures to other body parts, and to be innovative.

Unlike other surgical specialties, plastic surgery is not organized around a specific organ system. Consequently, plastic surgery has both freedom and vulnerability. This makes plastic surgery dependent on both the maintenance of superiority in the traditional area of expertise and on continued innovation and acquisition of new techniques and new problem to solve.

### **Vision:**

To train and develop the next generation of leaders in plastic surgery who will revolutionize patient care through evidence-based practice.

### **Goal:**

Our primary goal is to develop practicing plastic surgeons who are superior in basic science, clinical research, and cutting-edge patient care. This is accomplished through education in professionalism, patient safety, quality improvement, and clinical experience with graded authority and responsibility.

## **Learning objective:**

At the end of the program, it's expected to have a safe, responsible, and professional surgeons who will shape the future of plastic surgery that can fulfill the following job description criteria:

### **A. Medical knowledge**

1. Understands the physiology and biochemistry of normal and abnormal wound healing
2. Knows the anatomy and function of the epidermis, dermis, skin appendages/nails, subcutaneous tissues and fascial layers.
3. Understanding the basic surgical procedures in various plastic techniques
4. Understands the clinically important features in patient monitoring

### **B. Patient care**

1. Perform comprehensive history and physical exams, consultations, and postoperative checks.
2. Gathers and interprets essential and accurate information about the patient's health status.
3. Evaluates and manages postoperative patients.
4. Perform basic and advance invasive surgical procedures.
5. Learn the basics of a preoperative workup.

### **C. Practice based learning and improvement**

1. Uses information technology to evaluate and treat patients.
2. Improves the efficacy of care by appropriate and timely triage of patient-related problems.
3. Organizes patient data/health information to facilitate timely care and reduce errors.
4. Teach medical students and other health care professionals about the practices of plastic surgery.
5. Achieves functional independence with gradual advancement and responsibilities.
6. Participates in scheduled conferences.

#### D. Interpersonal and communication skills

1. Communicate patient-related issues in a timely manner to supervising resident or attending physician.
2. Discuss assessments and plans to all consultant services in a professional manner.
3. Clearly and legibly document progress notes, procedure notes, event notes, and consult forms in the medical record.
4. Ensure proper communication of patient-related issues and plans to the nursing staff and other healthcare workers.

#### **Study period:**

It encompasses a five-year curriculum designed for surgeons to be well knowledge with efficient skills necessary to participate in plastic surgical fields.

#### **Five- year's plastic surgery study curriculum map**

Year	Number of months			
I	6 months	5 months	1 month	
	General surgery	Plastic surgery principles	Intensive care	
II	8 months	3 months	1 month	
	General plastic surgery basic procedures + emergency related plastic surgical intervention	Acute burn management	dermatology	
III	6 months	3 months	2 months	1 month
	Pediatric plastic surgery+ Head and neck (craniofacial) surgery + hand surgery basic principles	Burn reconstruction procedures	Maxillofacial surgery	Ear, nose and throat surgery
IV	8 months	2 months	2 months	
	Aesthetic plastic surgery+ trunk and lower limb plastic surgery procedures+ advance plastic surgery flaps	Plastic surgery microscopic basics and principles	Orthopedic surgery	
V	8 months	2 months	2 months	

	Breast surgery+ advance aesthetic procedures + advance reconstructive procedures	Advance Plastic surgery microscopic skills and procedures	Advance hand surgery surgical procedures
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## **Details of Topics:**

**Year I:** General surgery, Plastic surgery principles, Intensive care

- a. Basic general principles for all specialist surgeons
- b. Basic general intervention skills
- c. Basic preoperative workout
- d. Basic postoperative monitoring and follow-up
- e. Basic intensive care assessments and managements
- f. Basic plastic surgical intervention and learning principles ( Fundamental Principles of Plastic Surgery, Basic Science of Wound Healing and Management of Chronic Wounds, Sutures and Needles, Principles of Flap Design and Application, Concepts of Skin Grafts and Skin Substitutes, Principles of Nerve Repair and Reconstruction, Principles of Tissue Expansion, Principles of Procedural Sedation and Local and Regional Anesthesia, Principles of Psychology for Aesthetic and Reconstructive Surgery, Patient Safety, Ethics in Plastic Surgery, Basic Statistics for the Practicing Physician, Principles of Research Designs and Outcomes, Photography for the Plastic Surgeon)

**Year II:** General plastic surgery basic procedures, emergency related plastic surgical intervention, acute burn management, dermatology

- a. (Skin Care, Scars and Scar Management, Skin, mucosa and cartilage Grafting)
- b. Vascular Anomalies
- c. Congenital Melanocytic Nevi
- d. Negative Pressure Wound Therapy
- e. Lasers in Plastic Surgery
- f. Radiation and Radiation Injury
- g. Acute emergency intervention skills
- h. Benign and Malignant Dermatologic Conditions
- i. Dermatologic diseases surgical intervention
- j. Thermal, Chemical, and Electrical Injuries and Managements

**Year III:** Pediatric plastic surgery, Head and neck (craniofacial) surgery, hand surgery basic principles, Burn reconstruction procedures, Maxillofacial surgery, Ear, nose and throat surgery

- a. (Cleft Lip/Palate and Velopharyngeal Dysfunction management), (Microtia and Prominent Ear management principles) and (Hypospadias and Epispadias management)
- b. (Craniosynostosis, Craniofacial Clefts, Craniofacial Microsomia and Principles of Craniofacial Distraction), (Reconstruction of the Scalp, Forehead, Calvarium, Skull Base, and Midface), (Reconstruction of the Eyelids and Correction of Ptosis), (Nasal Reconstruction), (Reconstruction of Acquired Lip and Cheek Deformities), (Facial Paralysis) and (Reconstruction of the Oral Cavity, Pharynx, and Esophagus)
- c. Orthognathic Surgery
- d. Facial Fractures and Soft Tissue Injuries
- e. Head and Neck Cancer and Salivary Gland Tumors
- f. Mandible Reconstruction
- g. Principles of Burn Reconstruction
- h. (Functional Anatomy and Principles of Upper Extremity Surgery), (Hand Infections), (Soft Tissue Reconstruction of the Upper Extremity), (Management of Compression Neuropathies), (Management of Hand and lower forearm Fractures), (Flexor and extensor Tendon Repair and Reconstruction), (Replantation Strategies of the Hand and Upper Extremity)

**Year IV:** Aesthetic plastic surgery, trunk and lower limb plastic surgery procedures, advance plastic surgery flaps, Plastic surgery microscopic basics and principles, orthopedic surgery

- a. (Nonsurgical Facial Rejuvenation and Skin Resurfacing), (Dermal and Soft-Tissue Fillers and Botulinum Toxin: Principles and Techniques), (Liposuction and Fat Grafting in Plastic Surgery), (Blepharoplasty), (Otoplasty), (Facial Skeletal Augmentation With Implants and Osseous Genioplasty), (Invasive/noninvasive Body Contouring surgeries), (Male and Female Genital Aesthetic Plastic Surgery)
- b. (Abdominal Wall Reconstruction and Abdominoplasty), (Reconstruction of the Chest, Sternum, and Posterior Trunk), (Lower Extremity, Foot, and Ankle

Reconstruction), (Perineal Reconstruction), (Diagnosis and Treatment of Lymphedema and Pressure Injuries)

- c. (Basic orthopedic surgical techniques), (Radius and ulna bone disorders managements)
- d. Principles of Microsurgery

**Year V:** Breast surgery, advance aesthetic procedures, advance reconstructive procedures, Advance Plastic surgery microscopic skills and procedures, Advance hand surgery surgical procedures

- a. (Augmentation Mammoplasty, Mastopexy, Breast Reduction), (Gynecomastia), (Breast Cancer: Current Trends in Screening, Evaluation and Treatment), (Breast Reconstruction)
- b. (Facelift and Neck lift), (Forehead and Brow Rejuvenation), (Rhinoplasty), (Hair Transplantation), (Brachioplasty, Medial Thigh Lift and Buttock Augmentation), (Gender Affirmation Surgery)
- c. (Major reconstructive flaps practicing)
- d. (Management of Brachial Plexus Injuries), (Applications of Nerve Transfers), (Free flaps applications), (Vascular Disorders of the Hand), (Replantation Strategies of the Hand and Upper Extremity)
- e. (Ligament Injuries of the Hand and Wrist), (Thumb Reconstruction), (Hand Tumors), (Dupuytren Disease), (Common Congenital Hand Anomalies), (Rheumatoid Arthritis and Inflammatory Arthropathies).

## **Assessments and Exams:**

**1-Primary exam:** is done at the end of the first year of the study, it is a written exam including two papers of MCQ .

**Paper 1:** Principles of general surgery.

**Paper 2:** Basics of plastic surgery.

The passing mark of the two papers is 70 marks. There are 4 attempts for the exam , 6 months apart.

**2-Mid term exam** at the mid of 4<sup>th</sup> year. It is MCQ exam about the basic reconstructive surgery, aesthetic surgery and hand surgery. The passing mark is 60 marks. There are 4 attempts 3 months apart. This exam and the thesis are considered as requirements for entering the final exam.

**3-Final exam:**is done at the end of the fifth year and includes:

**A-Written exam :** including two papers of MCQ .

**Paper 1:** Principles of reconstructive surgery ,burn,soft tissue tumors, head and neck and congenital anomalies.

**Paper 2:** Hand surgery,aesthetic surgery and breast.

The passing mark of the two papers is 70 marks and is a must to enter the clinical exam.There are 4 attempts for the exam , 6 months apart.

**B- A Clinical exam** {clinical slides(30 marks) , Oral(30 marks) & short cases(40marks)}.

The passing mark of the Clinical exam is70 marks.There are 4 attempts for the exam , 6 months apart.

**The final passing mark of the written and Clinical exams is 70 marks. There are 4 attempts for the exam , 6 months apart.**