

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

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SYLLABUS FOR

POST DOCTORAL FELLOWSHIP IN AESTHETIC DERMATOLOGY

ACADEMIC YEAR 2026 – 2027

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY, CHENNAI

SYLLABUS – POST DOCTORAL FELLOWSHIP IN

AESTHETIC DERMATOLOGY

SYLLABUS

Brief description of the training programme intended to be covered in the period of Fellowship :

Theory and Practical Knowledge in the following:

Applied Anatomy and Physiology

Regional Anaesthesia

Counselling

For All Procedures

Pre Operative / Pre Procedure Assessment

- Patient Selection
- Selection of Procedure

Management of 'on the table' complications

Management of delayed Complications

AESTHETIC INTERVENTIONAL DERMATOLOGY PROCEDURES

CHEMICAL PEELS

Biochemistry & Pharmacology of chemical peels

Patient Selection

Mechanism of action of Chemical peels

Indications for each Peels

- Peels for dark skin
- Peels for acne skin
- Peels for pigmentation

Types of Chemical Peels

- Superficial
- Medium depth chemical peeling
- Conventional peels
- New and Combination peels

Management of complications

ELECTROSURGERY

Electro Surgery Principles

Electro Surgical Machines

- Hyfrecator Machines
- Radiofrequency Machines
- Ablative & non-ablative machines

Sinewave

Electro Surgical Procedures

- Electro dessication
- Electro fulguration
- Electro coagulation
- Electro section
- Electro epilation

Non- Ablative Radiofrequency

- For Lipolysis
- For tissue tightening

MICRODERMABRASION

Mechanism of Action

- Using Aluminium oxide crystals
- With LED
- With Hydrotherapy
- Diamond burr microdermabrasion

CRYOTHERAPY

Reagents

Principle of Treatments

Equipments

- Cryocan
- Roller device
- Cryogun

Indications

Techniques

- Dipstick method
- Intralesional Cryotherapy

Management of Complications

TREATMENT OF HYPERTROPIC SCARS & KELOIDS

- Cryotherapy
- Intralesional steroids / 5 FU
- CO2 laser

PLATELET RICH PLASMA

What is PRP?

Technique of Preparation

Indications

- For anti – aging
- For hair loss
- For leg ulcers

VITILIGO SURGERY

- Introduction
- Indications for Surgery
- Micropigmentation – localized areas such as lip
- Miniature punch grafting

MESOTHERAPY

What is Mesotherapy?

Mechanism of Mesotherapy

Indications

- Antiaging
- Hair loss
- Lipolysis
- Acne Scars
- Stretch Marks
- Alopecia

Types

- Manual method
- Mesogun
- Mesopen
- Derma Roller

Technique of Mesotherapy
Management of Complications

BOTULINUM TOXIN

What is Botox?

Pharmacology and Physiology of Botox

Types of Botox

Indications

- Wrinkles
- Hyperhidrosis
- Meso botox

Patient Selection

Techniques

Management of Complications

DERMAL FILLER

Filler Basics

Types of Fillers

Indications

- Hydration
- Wrinkles, Folds
- Dermatological diseases with atrophy
- Scars

Patient Selection

Techniques

Management of Complications

LASER BASICS

Laser Physics

Selective Photo thermolysis

Laser Tissue Interactions

Laser for Pigmentations

Laser for Scar

Laser for Hair Reduction

Other Lasers and Light Therapies
