

جدول أجنحة الدبلومة المهنية في علاج الألم

١- نوع البرنامج: دبلوم مهني

المدة: فصلان دراسيان (١٢ أسبوعًا لكل فصل)

إجمالي الساعات المعتمدة 24 ساعة (١٢ ساعة في كل فصل دراسي)

Component	Credit Hours	Description
Semester 1	12	Theoretical foundations: pain science, pharmacology, diagnostics, and research.
Semester 2	12	Clinical applications: interventional pain procedures, case-based learning, and leadership.
Total	24	Comprehensive academic and practical diploma program.

Semester 1 – Theoretical Foundations of Pain Medicine (12 Credit Hours)

Aim: To build foundational knowledge in pain physiology, pharmacology, diagnostics, and research.

Week	Main Topic	Subtopics / Details	Learning Outcomes	Credit Hours	Contact Hours	Teaching & Assessment Methods	Lecturer
1	Introduction to Pain Medicine	Definition and types of pain; Historical evolution; Biopsychosocial model; Multidisciplinary care; Global pain burden	Explain pain concepts and interdisciplinary management	1	2L + 1P	Lecture, case discussion, quiz	Dr /Mohamed Raof
2	Anatomy of Pain Pathways	Peripheral and central tracts; Nociceptors; Spinothalamic and spinoreticular tracts; Somatic vs visceral pathways	Describe anatomical structures involved in pain transmission	1	3L	Lecture, diagram-based discussion	Dr / Osama Gaweesh

3	Physiology and Pain Modulation	Neurotransmitters ; Gate control theory; Descending inhibition; Plasticity and sensitization; Clinical implications	Explain physiological modulation of pain	1	3L	Lecture, tutorial, participation	Dr / Osama Eid
4	Pharmacology of Pain	Opioids, NSAIDs, adjuvants, local anesthetics; Mechanism, dosage, and safety; Pharmacovigilance	Identify drug classes and apply safe prescribing	1	2L + 1P	Lecture, MCQ test	Dr / Yasser Shafik
5	Pain Diagnosis and Assessment	History taking; Pain scales; Physical examination; Differential diagnosis; Psychological aspects	Conduct structured assessment for pain disorders	1	2L + 1P	Demonstration, practice session	Dr /Amr Saeed
6	Imaging and Radiology in Pain	MRI, CT, Ultrasound; Radiation safety; Image-guided interventions; Case interpretation	Interpret imaging findings relevant to pain	1	3L	Lecture, image review, quiz	Dr /Mohamed Raouf
7	Common Pain Syndromes	Headache, low back pain, neuropathic pain, musculoskeletal pain, cancer pain	Differentiate types and mechanisms of pain syndromes	1	2L + 1P	Lecture, group work	Dr /Yasser Shafik
8	Multimodal Pain Management	Combination therapy; Physical rehabilitation; Psychological support; Interdisciplinary approach	Design multimodal treatment plans	1	3L	Lecture, clinical scenario discussion	Dr / Osama Eid
9	Introduction to TCM	Concept of Qi; Yin-Yang; Meridians; Five	Understand TCM theories in pain management	1	2L + 1P	Lecture, video demo	Dr /Mohamed Raouf

		elements; TCM pain diagnosis					
10	Acupuncture and TCM Applications	Acupoints; Mechanism of acupuncture analgesia; Safety; Cupping and herbal methods	Integrate TCM basics with modern pain practice	1	3L	Demonstration, practical observation	Dr /Mohamed Raof
11	Research in Pain Medicine	Study design; Literature review; Evidence-based medicine; Research ethics; Data interpretation	Apply research principles and critical analysis	1	2L + 1P	Workshop, group project	Dr /Mohamed Raof
12	Communication, Leadership & Ethics	Doctor-patient communication; Ethical prescribing; Teamwork; Cultural sensitivity	Apply ethical and leadership principles in pain practice	1	3L	Role play, reflection, viva	Dr /Mohamed Raof

Assessment:

Written Exam (4 credits),

Oral Viva (2 credits),

Research Project (2 credits),

Continuous Assessment (4 credits)

Semester 2 – Clinical and Interventional Pain Practice (12 Credit Hours)

Aim: To develop clinical competence in interventional pain management, patient safety, and leadership.

Week	Main Topic	Subtopics / Details	Learning Outcomes	Credit Hours	Contact Hours	Teaching & Assessment Methods	Lecturer
1	Head & Neck Interventions	Trigeminal, maxillary, mandibular, sphenopalatine ganglion, stellate ganglion blocks	Perform and describe indications for head/neck pain interventions	1	2L + 2P	Demonstration, simulation	Dr /Amr Saeed
2	Cervical Region Procedures	Cervical epidural, facet blocks, RFTC, cervical plexus blocks	Safely perform cervical procedures	1	3P	Simulation lab, case demo	Dr / Osama Eid
3	Thoracic Interventions	Intercostal, suprascapular, thoracic sympathetic, thoracic epidural blocks	Manage thoracic and upper back pain	1	3P	Demonstration, practice	Dr / Osama Gaweesh
4	Lumbar Sympathetic & Root Blocks	Lumbar sympathetic, splanchnic, dorsal root ganglion blocks	Demonstrate lumbar interventions	1	3P	Supervised clinical practice	Dr / Osama Gaweesh
5	Lumbar Facet & Epidural Procedures	Facet injections, discography, epidural catheterization	Perform lumbar spine procedures safely	1	2L + 2P	Clinical observation, simulation	Dr /Amr Saeed
6	Pelvic & Perineal Procedures	Hypogastric plexus, ganglion impar, sacroiliac joint, caudal neuroplasty	Manage pelvic and perineal pain via interventions	1	3P	Workshop, clinical demo	Dr / Yasser Shafik
7	Lower Limb Procedures	Femoral, sciatic, obturator, piriformis blocks	Apply lower limb pain procedures	1	3P	Hands-on lab	Dr /Mohamed Raouf

8	Cancer Pain Interventions	Celiac plexus, superior hypogastric plexus neurolysis; Palliative care	Develop expertise in cancer pain interventions	1	2L + 2P	Simulation, case discussion	Dr / Yasser Shafik
9	Ultrasound-Guided Procedures	Ultrasound principles; Needle visualization; Radiation safety	Perform ultrasound-guided pain blocks	1	2L + 2P	Practical training	Dr / Osama Eid
10	Office-Based Procedures	Trigger point injections; Minor joint injections; Patient safety and consent	Perform outpatient interventions	1	2L + 1P	Demonstration, practice	Dr / Yasser Shafik
11	Case-Based Clinical Integration	Clinical cases; Problem-solving; Evidence-based decisions	Integrate clinical reasoning and management	1	3L	Seminar, case presentations	Dr /Mohamed Raof
12	Teaching & Leadership in Pain Medicine	Teaching juniors; Running pain clinics; Quality improvement	Exhibit teaching and leadership skills	1	2L + 1P	Workshop, viva	Dr /Mohamed Raof

Assessment:

Clinical OSCE (4 credits),

Oral Viva (2 credits),

Case Presentation (2 credits),

Continuous Clinical Evaluation (4 credits)