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DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY, CDCRI
TEACHING LEARNING STRATEGIES
DIDACTIC ($\frac{1}{3}^{\text{rd}}$)

STRATEGY	TOTAL HOURS ALLOTTED	YEAR WISE DISTRIBUTION OF HOURS		TEACHING MEDIA
		III rd BDS	IV th BDS	
		LECTURES	82 Hrs	
REMEDIAL CLASS	4 Hrs	-	4 Hrs	LCD, Black board Online platform

NON DIDACTIC ($\frac{2}{3}^{\text{rd}}$)

STRATEGY	TOTAL HOURS ALLOTTED	YEAR WISE DISTRIBUTION OF HOURS		TEACHING MEDIA
		III rd YR	IV th YR	
		CLINICAL POSTING	270	
PRACTICAL/CLINICAL	194	40	154	
DISCUSSION/VIVA	50	20	30	Skull
DEMONSTRATIONS	26	10	16	Cast Model, Skull Patients

DIDACTIC - COURSE CONTENT

FINAL YEAR BDS

SNO.	DIDACTIC TOPIC & TOTAL HOURS ALLOTTED	CONTENTS	MUST KNOW	DESIRABLE TO KNOW	NICE TO KNOW
1.	IMPACTION GURS	<p>① Definition, Terminologies classification of Impacted 3rd Molar</p> <p>② Etiology, Theories of Impaction & Incidence of Impaction</p> <p>③ Clinical & radiological assessment of difficulty</p> <p>④ factors making impaction surgery easy or difficult</p> <p>⑤ Armamentarium & steps in surgical removal of impacted tooth.</p> <p>⑥ Bur Vs chisel tech.</p> <p>⑦ Post op complication & management</p> <p>⑧ Specialized Tech</p> <p>⑨ Impacted canines & Max 1st Molar</p>	<p>✓</p> <p></p> <p>✓</p> <p></p> <p>✓</p> <p></p> <p>✓</p> <p></p> <p>✓</p> <p>✓</p>	<p></p> <p>✓</p> <p></p> <p></p> <p></p> <p></p> <p></p> <p>✓</p> <p></p>	<p></p> <p></p> <p></p> <p>✓</p> <p></p> <p></p> <p></p> <p></p> <p></p>

SNO. & TOTAL NO. OF HOURS	DIDACTIC TOPIC	CONTENTS	MUST KNOW	DESIRABLE TO KNOW	NICE TO KNOW
2.	ODONTOGENIC & FACIAL SPACE INFECTION (OSTEOMYELITIS & ORN)	1) DEFINITION & ETIOLOGY OF SPACE INF. 2) Pathways of Odonogenic Inf 3) Microbiology 4) Spread of Orofacial inf 5) Evaluation of the patient with orofacial inf. 6) Potential spaces 7) Classification of facial spaces. 8) Possible complications of Orofacial inf 9) Osteomyelitis of Jaw bones - Definition, classi 10) Types of Osteomyelitis - clinical features, diag & management	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓	

S No.	DIDACTIC TOPIC TOTAL NO. OF HOURS	CONTENTS	MUST KNOW	DESIRABLE TO KNOW	NICE TO KNOW
		1) Tuberculous Osteomyelitis of jaw bones.			✓
		2) Osteoradionecrosis of the facial bones - Definition, Pathophysiology, Cf, diag. & Rx	✓		
3.	ENDODONTIC SURGERY	1) Indications & Contra indications	✓		
		2) Presurgical preparation		✓	
		3) Flap design - Rules	✓		
		4) Types of Endodontic surgery procedures		✓	
		5) Incision for drainage	✓		
		6) Truption		✓	
		7) Peri radicular surgery	✓		
		8) Repair of perforation			✓
		9) Hemisection & root amputation		✓	
		10) Intentional replantation		✓	

S.No.	DIDACTIC TOPIC & TOTAL NO. OF HOURS	CONTENTS	MOST KNOW	DESIRABLE TO KNOW	NICE TO KNOW
4.	PRE PROSTHETIC SURGERY	1) Definition, Aims & Objectives. 2) Classification of Preprosthetic surgical procedures ✓ 3) Patient evaluation & treatment planning ✓ 4) Surgical techniques ✓ 5) Recent Advances ✓		✓	✓
5.	MAX. SINUS & ITS IMPLICATIONS.	1) embryology of Max. Sinus ✓ 2) Surgical Anatomy. ✓ 3) Physiology of Sinus ✓ 4) Sinusitis ✓ 5) Oroantral communication (fish) ✓ 6) Benign & malignant tumours ✓		✓	✓

S.No.	DIDACTIC TOPIC & TOTAL NO. OF HOURS	CONTENTS	MOST KNOW	DESRABLE TO KNOW	NICE TO KNOW
6.	MAXILLOFACIAL TRAUMA	1) CAUSES OF TRAUMA 2) PEAKS of mortality 3) Triage 4) Glassgow coma scale 5) Initial management of trauma patient 6) classification of ^{off & manage} ^{ment} of fractures of Middle 3 rd of facial skeleton & ZMC 7) fractures of Nasal bone & Rx 8) Anatomy of mandible & classification of mand# 9) Management of mand# in adults 10) Mandibular # in children 11) Surgical approaches to Mand 12) classification, off, diagnosis & management of condylar fractures 13) Recent advances in fixation	✓	✓	✓

S No.	DIDACTIC TOPIC & TOTAL NO. OF HOURS	CONTENTS	MOST KNOWN	DESIRABLE TO KNOW	NICE TO KNOW
7.	CYSTS OF MAXILLOFACIAL REGION	1) Definition, Etiology & classification. 2) Pathophysiology of cyst formation 3) Various intraosseous cyst 4) Soft tissue cyst of oral cavity 5) Management of cystic lesion - Diag & Rx	✓ ✓ ✓	✓	
8.	TUMORS OF HEAD & NECK	1) Definition & classification of benign tumors & in detail Ameloblastoma 2) All other tumors of epithelial odontogenic origin + Mesenchymal odontogenic origin 3) Mixed Odontogenic origin tumors 4) General management of Odontogenic tumors	✓ ✓ ✓	✓	

S No.	DIDACTIC TOPIC & TOTAL NO. OF HOURS	CONTENTS	MUST KNOW	DESIRABLE TO KNOW	NICE TO KNOW
9.	TMJ & ITS DISORDERS	1) Anatomy of TMJ 2) Classification of TMD's 3) Surgical approaches to Mand Cond. 4) TMJ Ankylosis - classification Etiopathology, pathogenesis Diagnosis, etf & management 5) Kabane Protocol 6) Modified Kabane Protocol 7) MPDS 8) Internal derangement 9) Dislocation	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓
10.	SALIVARY GLAND DISORDERS	1) Salivary gland anatomy & physiology 2) Classification of Sal. Gland diseases 3) Sialolithiasis, Sialadenosis, Necrotising Sialometaplasia Sjogrens Syndrome Xerostomia	✓ ✓ ✓	✓	

S.No.	DIDACTIC TOPIC & TOTAL NO. OF HOURS	CONTENTS	MUST KNOW TO KNOW	DESIRABLE TO KNOW	NICE TO KNOW
		4) Diagnostic imaging		✓	
		5) Salivary analysis			✓
		6) Surgical Management	✓		
		7) Complications of Surgery of Salivary Glands		✓	
11.	ORTHOGNATHIC SURGERY	1) Introduction to Orthognathic Surgery		✓	
		2) Presurgical Orthodontic phase.			✓
		3) Protocol for Osteotomies		✓	
		4) Maxillary Osteotomies	✓		
		5) Mandibular Osteotomies	✓		
		6) Complications of Orthognathic			✓
12.	CLEFT UP&PALATE	1) Incidence			✓
		2) Etiology	✓		
		3) Embryological aspect	✓		
		4) Classification		✓	

S No.	DIDACTIC TOPIC & TOTAL NO OF HOURS	CONTENTS	MUST KNOW	DESIRABLE TO KNOW	NICE TO KNOW
		5) Associated deformities & problems		✓	
		6) Aims & Objectives of management of CUP	✓		
		7) General management protocol for cleft patient	✓		
		8) Management of cleft lip & Palate	✓		
		9) Orthodontics in CUP		✓	
3.	NERVE INJURIES	Definition & Etiology	✓		
		Types of Nerve Injuries (classification)		✓	
		Management		✓	
4.	NEUROLOGICAL DISORDERS (TRIGEMINAL NEURALGIA & BELLS PARALYSIS)	1) Etiology & pathogenesis TGN	✓		
		2) clinical features of TGN	✓		
		3) Diagnosis & Rx of TGN	✓		
		4) Bells palsy	✓		

S. No.	DIDACTIC TOPIC & TOTAL NO. OF HOURS	CONTENTS	MOST KNOW	DESIRABLE TO KNOW	WISDOM TO KNOW
15.	DENTAL IMPLANTOLOGY	1) Definition and classification of dental implants ✓ 2) Biological parameter for implant acceptance ✓ 3) Indication & contraindication for implants ✓ 4) Presurgical investigation ✓ 5) Surgical steps of implant placement ✓ 6) Complication of implant placement & their management ✓			

DIDACTIC - COURSE CONTENT

THIRD YEAR BDS

SERIAL NO.	DIDACTIC TOPIC	CONTENTS	MOST KNOW	DESIRABLE TO KNOW	NICE TO KNOW
1.	ANATOMY OF MANDIBLE	1) Mandible - its parts 2) Attachments and relations of the mandible 3) foramina & relations to nerves & vessels 4) Ossification 5) Age changes 6) clinical anatomy	✓ ✓ ✓ ✓ ✓ ✓		
2.	ANATOMY OF MAXILLA	1) Maxilla - its parts 2) Attachments & relations 3) foramina & relations to nerves & vessels 4) Ossification 5) Age changes 6) clinical anatomy	✓ ✓ ✓ ✓ ✓ ✓		

SERIAL NO	DIDACTIC TOPIC	CONTENTS	MUST KNOW	DESIRABLE TO KNOW	NICE TO KNOW
3.	TRIGEMINAL NERVE	1) Nuclei of Trigeminal nerve 2) course of Nerve - Sensory & Motor root 3) Divisions of Trigeminal nerve - ophthalmic - Maxillary - Mandibular	✓ ✓ ✓ ✓ ✓		
4.	NEUROPHYSIOLOGY OF LOCAL ANESTHESIA	1) Definition 2) Ideal properties 3) Fundamentals of nerve conduction 4) Mode & site of action 5) Active forms of local anesthetics - Local anesthetic molecule - Dissociation of local anesthetics - Action on nerve membrane - Clinical implication of pH 6) Kinetics of local anesthetics onset & duration of action - Barrier to diffusion of solution - Induction of LA - Recovery from LA - Rejection of LA	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		

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SERIAL NO.	DIDACTIC TOPIC	CONTENTS	MOST KNOWN	DESIRED TO KNOW	NICE TO KNOW
5.	PHARMACOLOGY OF LOCAL ANESTHETICS	1) Pharmacokinetics of local anesthetics <ul style="list-style-type: none"> • uptake ✓ • Distribution ✓ • Metabolism ✓ • Excretion ✓ 2) classification of LA ✓			
		3) Systemic action of LA			
		- on CNS	✓		
		- CVS	✓		
		- peripheral vasculature	✓		
		- local tissue toxicity		✓	
		- Respiratory System	✓		
		4) Miscellaneous actions			
		- Neuro-muscular blockade	✓		
		- Drug interaction	✓		
		- Malignant Hyperthermia		✓	
6.	PHARMACOLOGY OF VASOCONSTRICTOR	1) Adrenergic receptors ✓			
		2) Release of catecholamines	✓		
		3) Dilution of vasoconstrictor	✓		
		4) Pharmacology of specific agents			
		- Epinephrine	✓		
		- Norepinephrine		✓	
		- Tetrypressin			✓
		5) Selection of vasoconstrictor	✓		

Done (15)

SERIAL No.	DIDACTIC TOPIC	CONTENTS	MUST KNOW	GOOD TO KNOW	NICE TO KNOW
7.	CLINICAL ACTION OF SPECIFIC LA AGENTS	1) DURATION OF ACTION - factors affecting depth & duration 2) Contra indication of LA 3) Maximum recommended dose 4) Individual drug - procaine - lignocaine - Mepivacaine - prilocaine - articaine - Bupivacaine 5) Anesthetics for topical application 6) Selection of local anesthetic	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
8.	ARMAMENTARIUM	1) Syringe 2) Needle 3) Cartridge 4) Additional accessories 5) Preparation of the armamentarium	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
9.	TECHNIQUES OF MAXILLARY ANESTHESIA	1) Supraapical (Infiltration) 2) PDL (intraoral ganglion) 3) Intra septal inj	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓

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SERIAL No	DIDACTIC TOPIC	CONTENTS	MUST KNOW	GOOD TO KNOW	NICE TO KNOW
		4) Intraosseous inj	✓		
		5) PSA Nerve block	✓		
		6) Middle superior Alv. Nerve block		✓	
		7) Infraorbital N Block	✓		
		8) Maxillary N block Tech.		✓	
		9) Nasopalatine & Great palatine NB	✓		
10.	TECHNIQUES OF MANDIBULAR ANESTHESIA	1) INFERIOR ALVOLAR NERVE BLOCK	✓		
		2) LINGUAL NERVE BLOCK	✓		
		3) Long Buccal N block	✓		
		4) Incisive N block	✓		
		5) Mental N block	✓		
		6) GowGates TECHNIQUE		✓	
		7) VAZIRANI AKINOSI TECH		✓	
11.	LOCAL COMPLICATIONS OF LA	1) Needle breakage	✓		
		2) Pain on injection	✓		
		3) Burning on injection	✓		
		4) Persistent anesthesia	✓		
		5) Trismus	✓		
		6) Hematoma	✓		
		7) Infection	✓		
		8) Edema	✓		
		9) Sloughing of tissue	✓		
		10) Soft tissue injury	✓		
		11) facial Nerve paralysis	✓		
		12) Post anesthetic intraoral lesions.	✓		

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SERIAL NO.	DIDACTIC TOPIC	CONTENTS	MUST KNOW	GOOD TO KNOW	NICE TO KNOW
12.	SYSTEMIC COMPLICATIONS OF LA	1) ADVERSE DRUG REACTION Toxicity - Overdose - Allergy - Idiosyncrasy	✓ ✓ ✓ ✓		
13.	FUTURE TRENDS	1) EMLA 2) Electronic dental anesthesia - TENS	✓		✓
14.	EXODONTIA	1) Definition 2) Indications & contraindications 3) Principles 4) Techniques - open/closed 5) Complications 6) Advances in exodontia	✓ ✓ ✓ ✓ ✓		✓
15.	ANALGESICS	1) Definition 2) Classification 3) Dosage 4) NSAIDS. 5) OPIOIDS. 6) Adjuvants & advances	✓ ✓ ✓ ✓ ✓		✓
16.	MEDICAL EMERGENCIES	1) Definition 2) Types 3) Pathogenesis 4) Signs & symptoms 5) Management	✓ ✓ ✓ ✓ ✓		

SERIAL No.	DIDACTIC TOPIC	CONTENTS	MUST KNOW	GOOD TO KNOW	NICE TO KNOW
		2. Syncope. 3. Diabetes mellitus. 4. Thyroid gland disorder 5. Respiratory diseases 6. Cardiovascular diseases 7. Cerebral diseases, Seizure 8. Allergic reactions.	✓ ✓ ✓ ✓ ✓ ✓ ✓		
17)	ANTIBIOTICS.	1. Definition 2. Classification 3. Principle of antibiotic selection 4. Dental procedures requiring antibiotic coverage. 5. Selection of antibiotic	✓ ✓ ✓	✓ ✓	
18)	ASEPSIS & STERILIZATION	1) Definition 2) Classification 3) Categorization of instruments. 4) Levels of disinfection 5) Individual disinfectants in details. 6) Tests for sterilization 7) Methods of waste disposal. 8) Recent advances	✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓	

NONDIDACTIC STRATEGY

YEAR	PRACTICAL/CLINICAL	DISCUSSION/NIVA	DEMONSTRATION	TOTAL HOURS ALLOTTED
III rd YR.	1) Journal write up on topics :- • Introduction to OMPs • Trigeminal Nerve • Facial Nerve • asepsis and sterilization • local anesthetics • Nerve block • Exodontia • Sutures & techniques • antibiotics 2) Observation of Tooth extraction	• Trigeminal Nerve (3hs) Local anesthesia (8hs) Nerve blocks (5hs) Exodontia (4hs)	Anatomical landmarks • Osteology of Maxilla (2hs) • Osteology of Mand (2hs) • Maxillary Nerve blocks (3hs) • Mandibular Nerve blocks (3hs)	70 Hrs
	40 hrs	20 hrs	10 hrs	70 hrs
IV th	1) Journal write up on topics :- • Antimicrobials & analgesics • Drug interactions • Anamnetarium • Medically compromised patients • Medical emergencies • Emergency drugs in dentistry 2) Case History Taking 3) Performing tooth extractions on patients	Trigeminal nerve (3hs) Local anesthesia (10 hrs) Nerve blocks (5hs) Exodontia (5hs) Med. Emergency (5hr) Sterilization Asepsis (2hs)	• Anamnetarium of LA (2hs) • Maxillary N blocks (4hs) • Mandibular N blocks (4hs) • Maxillary Ext forceps (1hr) • Mandibular Ext forceps (1hr) • Dental Elevator (1hr) • Emergency drugs (1hr) • Radiographs (2hs)	200
	154 hrs.	30 hrs	16 hrs	200 hrs