

Dept. of Dentistry

The Graduate School of Dentistry was established on the Gangneung campus in 1998. Graduate School of Dentistry has been involved in dentists and researchers with a global perspective who will play a leading role in the broader field of dentistry, from basic research to clinical practice and oral health.

Information

ADDRESS: (25457) Department of Dentistry, Gangneung-Wonju
National University, 7 Jukheon-gil, Gangneung,
Gangwon-Do, Korea

TELEPHONE: +82-33-640-2447

FAX: +82-33-642-6410

Professor Introduction

NAME	MAJOR	TELEPHONE	E-MAIL
Kim, Kyung Nyun	Oral Physiology, Neurophysiology	+82-33-640-2450	knkim@gwnu.ac.kr
Ko, Seong Hee	Dental Pharmacology	+82-33-640-2453	shko@gwnu.ac.kr
Chang, Beom Seok	Periodontology	+82-33-640-3188	dentist@gwnu.ac.kr
Lee, Si Young	Oral Microbiology, Immunology	+82-33-640-2455	siyoung@gwnu.ac.kr
Ma, Deuk Sang	Preventive Dentistry	+82-33-640-3194	mads@gwnu.ac.kr
Cho, Lee Ra	Prosthodontics	+82-33-640-3182	lila@gwnu.ac.kr
Lee, Suk Keun	Genetic Pathology, Congenital Malformation	+82-33-640-2228	sklee@gwnu.ac.kr
Um, Heung Sik	Periodontology	+82-33-640-3184	hsum@gwnu.ac.kr
Park, Young Wook	Oral & Maxillofacial Surgery	+82-33-640-3183	ywpark@gwnu.ac.kr
Park, Deok Young	Preventive Dentistry	+82-33-640-3185	jguitar@gwnu.ac.kr
Kim, Jin Woo	Endodontics	+82-33-640-3189	mendo7@gwnu.ac.kr
Park, In Woo	Oral and Maxillofacial Radiology	+82-33-640-3187	xraypark@gwnu.ac.kr
Cha, Bong Kuen	Orthodontics	+82-33-640-3192	korth@gwnu.ac.kr
Choi, Hang Moon	Oral and Maxillofacial Radiology	+82-33-640-2465	imagchoi@gwnu.ac.kr
Park, Moon Soo	Oral Medicine	+82-33-640-2466	mpark@gwnu.ac.kr
Jo, Kyung Mo	Endodontics	+82-33-640-2467	drbozon@gwnu.ac.kr
Chung, Ki Myung	Oral Physiology, Neurophysiology	+82-33-640-2461	ckm@gwnu.ac.kr
Lee, Joong Bae	Dental Biomaterials	+82-33-640-2457	aqdoc@gwnu.ac.kr
Park, Soon Ho	Biochemistry,	+82-33-640-24	spark9@gwnu.ac.kr

	Molecular Biology	58	
Park, Ho Won	Pediatric Dentistry	+82-33-640-2464	pedo@gwnu.ac.kr
Park, Chan Jin	Prosthodontics	+82-33-640-2752	doctorcj@gwnu.ac.kr
Jung, Se Hwan	Preventive Dentistry	+82-33-640-2751	feeljsh@gwnu.ac.kr
Kim, Young Jun	Oral Medicine	+82-33-640-2754	alcor3@gwnu.ac.kr
Lee, Ju Hyun	Pediatric Dentistry	+82-33-640-2452	ljh55@gwnu.ac.kr
Cho, Young Kyung	Oral Physiology, Neurophysiology	+82-33-640-2451	ykcho@gwnu.ac.kr
Lee, Hee Su	Anatomy & Histology	+82-33-640-2454	nightsu@gwnu.ac.kr
Kim, Cheul	Oral Medicine	+82-33-640-2459	chkim@gwnu.ac.kr
Lee, Sang Shin	Genetic Pathology, Congenital Malformation	+82-33-640-2463	sangshin@gwnu.ac.kr
Seo, Hyun Woo	Pediatric Dentistry	+82-33-640-2758	hwseo@gwnu.ac.kr
Kwon, Kwang Jun	Anesthesiology	+82-33-640-2755	jf1225@gwnu.ac.kr
Han, Jin Woo	Oral and Maxillofacial Radiology	+82-33-640-2757	hanjw@gwnu.ac.kr
Lee, Jae Kwan	Periodontology	+82-33-640-3199	periojk@gwnu.ac.kr
Choi, Dong Soon	Orthodontics	+82-33-640-2759	dschoi@gwnu.ac.kr
Park, Se Hee	Endodontics	+82-33-640-2760	drendo@gwnu.ac.kr
Jang, In San	Orthodontics	+82-33-640-2762	insan@gwnu.ac.kr
Kim, Seong Gon	Oral & Maxillofacial Surgery	+82-33-640-2468	kimsg@gwnu.ac.kr
Kim, Min Keun	Oral & Maxillofacial Surgery	+82-33-640-2753	omfsmk@gwnu.ac.kr
Yoo, Ki Yeon	Anatomy & Histology	+82-33-640-2456	kyyoo@gwnu.ac.kr
Baek, Kyung hwa	Dental Pharmacology	+82-33-640-2462	kb2012@gwnu.ac.kr
Kim, Dae Won	Biochemistry,	+82-33-640-22	kimdw@gwnu.ac.kr

	Molecular Biology	29	
Heo, Yun Hyeok	Prosthodontics	+82-33-640-2761	vino@gwnu.ac.kr
Ko, Gyeong Ho	Prosthodontics		
Choi Jong Ho	Genetic Pathology, Congenital Malformation	+82-33-640-231	

Curriculum

Course Code	Course Title	Credit
651.501	Advanced Occlusion	3-3-0
651.502	Methodology of Dental Research	3-3-0
651.503	Biostatistics	3-3-0
651.504	Cariology	3-3-0
651.505	Bio-medical Experimental Methodology	3-3-0
651.506	Advanced Immunology	3-3-0
651.507	Scientific reading and Writing	3-3-0
651.A28	Introduction of laboratory animal research	3-1-4
651.983	Dental Research Ethics	3-3-0
651.601	Biochemistry of Connective Tissue	3-3-0
651.602	Biochemistry of Saliva and Salivary Gland	3-3-0
651.603	Science of Nutrition in Clinical Dentistry	3-3-0
651.604	Cellular Chemistry	3-3-0
651.605	Biochemical Aspects of Dental Caries	3-3-0
651.606	Advanced Oral Biochemistry	3-3-0
651.607	Experimental Oral Biochemistry	3-1-4
651.608	Molecular Biology in Dentistry	3-3-0
651.866	Advanced Biochemistry 1	3-3-0
651.867	Advanced Biochemistry 2	3-3-0
651.868	Experimental technique for Biochemical Research	3-1-4
651.869	Protein chemistry and experiment	3-1-4
651.870	Nucleic acid chemistry	3-1-4
651.871	Cellular biochemistry and experiment	3-1-4
651.872	Genomics	3-3-0

651.873	Proteomics	3-3-0
651.924	Advanced Immunological Chemistry and Experiment	3-1-4
651.925	Signal Transduction and Experiment	3-1-4
651.926	Cell Cultivation Engineering	3-1-4
951.927	Natural Product Chemistry and Experiment	3-1-4
651.928	Bioactive Substances and Experiment	3-1-4
651.929	Stem Cell Engineering and Experiment	3-1-4
651.910	Dental Alloys	3-1-4
651.911	Dental Cements	3-2-2
651.912	Dental Amalgam	3-2-2
651.913	Esthetic Restorative Materials	3-1-4
651.914	Dental Impression Materials	3-2-2
651.915	Dental Gypsum Products and Investments	3-2-2
651.916	Preventive Dental Materials	3-2-2
651.917	Dental Ceramics	3-1-4
651.918	Toxicity Testing of Dental Materials	3-1-4
651.618	Dental Materials :Properties and Evaluation	3-0-6
651.919	Dental Implant Materials	3-1-4
651.920	Denture Base Resins	3-2-2-0
651.921	Dental Metal - Ceramic Restorations	3-2-20-0
651.922	Corrosion and Degradation of Dental Materials	3-1-4-0
651.A22	Methodology in Dental Biomaterials Research	3-0-6-0
651.923	Experimental Techniques for Dental Biomaterials Research	3-0-6-0
651.877	Physiology of Salivary Glands	3-1-4-0
651.620	Physiology of Pain	3-1-4-0
651.878	Physiology of Hard Tissue	3-1-4-0
651.622	Neurophysiology	3-1-4-0
651.879	Physiology of Aging	3-1-4-0
651.624	Physiology of Chemoreceptive Sensation	3-1-4-0
651.880	Methodology in Physiological Research	3-0-6-0
651.626	Physiology of Mastication	3-1-4-0
651.881	Physiology of Occlusion	3-1-4-0
651.882	Management of Scientific Information	3-1-4-0
651.883	Molecular Biology in Neuroscience	3-1-4-0

651.760	Physiology of Stress	3-1-4-0
651.884	Physiology of Endocrine	3-1-4-0
651.885	Neuroimmune Physiology	3-1-4-0
651.886	Behavioral Physiology	3-1-4-0
651.887	Methodology in Neuroscience Research	3-0-6-0
651.A08	Advanced physiology and practice	3-1-4-0
651.A09	Advanced oral physiology and practice	3-1-4-0
651.A10	Advanced neuroscience and practice	3-1-4-0
651.A11	Advanced neuroscience in orofacial area and practice	3-1-4-0
651.989	Advanced Gustatory Physiology	3-1-4-0
651.990	Cognitive Neuroscience	3-1-4-0
651.991	Cellular Neuroscience	3-1-4-0
651.992	Electrophysiology	3-1-4-0
651.993	Synaptic Physiology	3-1-4-0
651.994	Biophysics	3-1-4-0
651.995	Physiology of Ingestive Behavior	3-1-4-0
651.996	Physiology of Addiction	3-1-4-0
651.633	Toxicology	3-3-0-0
651.634	Dental Therapeutics of Medically Compromised Patient	3-3-0-0
651.635	Pharmacology of Anticaries Agents	3-3-0-0
651.636	Pharmacotheapeutics in Oral Infection	3-3-0-0
651.637	Basic Principle of Pharmacotheapeutics	3-3-0-0
651.638	Tissue Targeting Drug Delivery	3-3-0-0
651.893	Experimental Pharmacology	3-1-4-0
651.894	Molecular cellularbiology and practice	3-0-6-0
651.895	Tissue histomorphometry and practice	3-0-6-0
651.896	Stem cell differentiation and practice	3-0-6-0
651.906	Pharmacology of Hard Tissue	3-1-4-0
651.907	Neuropharmacology	3-1-4-0
651.908	Molecular Pharmacology	3-1-4-0
651.909	Pharmacology methodology	3-0-6-0
651.983	Dental Research Ethics	3-3-0-0
651.984	Biostatistics and Data analysis	3-1-4-0
651.985	Introduction to Epigenetics	3-3-0-0
651.986	Dental Clinical Pharmacology	3-3-0-0
651.987	Advanced Cell Biology	3-1-4-0
651.988	Advanced Bone Pharmacology	3-1-4-0

651.639	Microbiology of Dental Caries	3-1-4-0
651.640	Microbiology of Periodontal Disease	3-1-4-0
651.641	Microbiology of Oral Streptococci	3-1-4-0
651.642	Microbial Pathogenesis	3-1-4-0
651.643	Microbial Infection and Immunity	3-1-4-0
651.644	Immunology of Dental Caries	3-1-4-0
651.645	Immunology of Periodontal Disease	3-1-4-0
651.646	Molecular Immunology	3-1-4-0
651.647	Secretory Immunology	3-1-4-0
651.648	Immunological Methodology	3-1-4-0
651.781	Methodology of oral microbiology	3-1-4-0
651.782	Methodology of oral anaerobic bacteria	3-1-4-0
651.783	Methodology of molecular microbiology	3-1-4-0
651.784	Infection control in dentistry	3-0-6-0
651.854	Bacterial Structure and Virulence Laboratory	3-0-6-0
651.855	Bacteria and Antibiotics Laboratory	3-0-6-0
651.874	Dental Cross-Infection and Infectious Agents	3-1-4-0
651.875	Research Methods for Dental Cross-Infection	3-0-6-0
651.876	Infection Control Procedure in Dentistry	3-1-4-0
651.930	Innate and Dental Infection	3-1-4-0
651.931	Mucosal Immunity and Oral Bacteria	3-1-4-0
651.932	Dental Disease and Vaccine	3-1-4-0
651.933	Normal Oral Flora Ecology Laboratory	3-0-6-0
651.934	Root Canal Infection and Bacteria	3-0-6-0
651.935	Diagnostic Oral Microbial Methodology	3-0-6-0
651.936	Oral Mycology Laboratory	3-0-6-0
651.937	Dental Waterline Management Laboratory	3-0-6-0
651.938	Oral Bacterial Identification Methodology	3-0-6-0
651.939	Oral Bacteria and Systemic Disease	3-1-4-0
651.940	Biofilm Analysis Methodology	3-0-6-0
651.941	Oral Bacterial Antibiotic Resistance Laboratory	3-0-6-0
651.649	Cell Biology in Dentistry	3-3-0-0
651.650	Applied Electron Microscopy in Dental Research	3-1-4-0
651.651	Oral Histochemistry	3-1-4-0
651.652	Mineralized Tissue Anatomy	3-1-4-0
651.653	Gerological Anatomy in Dental Field	3-3-0-0
651.654	Research Methodology in Oral Histology	3-1-4-0
651.856	Dental Neuroanatomy	3-3-0-0
651.857	Dental Animal experiment	3-1-4-0

651.862	Bone biology	3-3-0-0
651.863	Stem cell	3-1-4-0
651.864	Immunohistochemistry	3-1-4-0
651.865	Regional anatomy in the face	3-1-4-0
651.999	Oral tissue development	3-3-0-0
651.A25	Clinical anatomy and practice	3-1-4-0
651.A26	Tissue regeneration and practice	3-1-4-0
651.A27	Research techniques of neuroscience	3-1-4-0
651.A99	cytoarchitecture	3-3-0-0
651.B01	Dental stem cells	3-3-0-0
651.655	Complete Denture Seminar	3-3-0-0
651.897	Fixed Dental Prosthetics	3-3-0-0
651.657	Partial Denture Seminar	3-3-0-0
651.658	Oral Implantology	3-3-0-0
651.659	Maxillofacial Prosthodontics	3-3-0-0
651.660	Dysfunction of Temporomandibular Joint	3-3-0-0
651.661	Dental Porcelain Prosthodontics	3-3-0-0
651.662	Esthetic Prosthodontics	3-3-0-0
651.663	Clinical Practice on Partial Denture	3-0-0-6
651.664	Clinical Practice on Complete Denture	3-0-0-6
651.898	Clinical Practice on Fixed Dental Prosthetics	3-3-0-6
651.666	Overdenture	3-3-0-0
651.667	Impression for Complete Denture	3-3-0-0
651.668	Prosthodontic Treatment for Elderly Patients	3-3-0-0
651.669	Clinical Application of Articulator	3-3-0-0
651.670	Restoration of Extensively Damaged teeth	3-3-0-0
651.A07	Research methodology in oral implantology	3-3-0-0
651.840	Full Mouth Rehabilitation	3-3-0-0
651.841	Research Methodology for Prosthodontics	3-3-0-0
651.842	Special Denture Prosthodontics	3-3-0-0
651.843	Theory of Occlusion	3-3-0-0
651.899	Clinical Practice on Cad-Cam Prosthesis	3-3-0-0
651.900	Biomaterials In Prosthodontics	3-3-0-0
651.901	Design for Clinical Research	3-3-0-0
651.902	Design for Animal Experiment	3-3-0-0
651.977	Design of removable partial denture	3-3-0-0
651.978	Implant assisted partial denture	3-3-0-0
651.979	Dental particle filled glasses	3-3-0-0

651.980	Dental polycrystalline ceramics	3-3-0-0
651.981	CAD/CAM guided implant prosthetics	3-3-0-0
651.982	Contemporary mandibular movement analysis	3-3-0-0
651.A86	Clinical Practice of Virtual articulator	3-0-6-0
651.A87	Occlusion Theory for Complete Denture	3-3-0-0
651.A88	CAD/CAM Complete Denture Prosthodontics	3-3-0-0
651.A89	Practice of Digital Prosthodontics	3-0-6-0
651.A90	Swallowing and Mastication rehabilitation	3-3-0-0
651.A91	Dental wear and rehabilitation	3-3-0-0
651.A92	Mastication and rehabilitation	3-3-0-0
651.A93	Precision attachment prosthodontics	3-3-0-0
651.A94	Adhesive Cementation of Dental Ceramics	3-3-0-0
651.A95	Practice of Color Measurement System	3-0-6-0
651.A96	Dental Resin-Matrix Ceramics	3-3-0-0
651.A97	Polishing of Dental Ceramics	3-0-6-0
651.A98	Aeronautic Prosthodontics	3-3-0-0
651.671	Pathogenesis of Periodontal Disease	3-3-0-0
651.672	Esthetic Periodontology	3-3-0-0
651.673	Implant Surgery	3-3-0-0
651.674	Dental Photography & Practice	3-2-2-0
651.675	Periodontal Regeneration	3-3-0-0
651.676	Advanced Periodontal Surgery	3-3-0-0
651.677	Periodonatal Epidemiology	3-3-0-0
651.678	Periodontal Pharmacoth erapeutics	3-3-0-0
651.679	Biology of Periodontium	3-3-0-0
651.680	Non-surgical Periodontal Therapy	3-3-0-0
651.844	Research methodology in periodontology	3-3-0-0
651.845	Clinical practice on periodontal plastic surgery	3-0-0-6
651.846	Periodontal-systemic disease interrelationship	3-3-0-0
651.847	Diagnosis & treatment of peri-implant disease	3-3-0-0
651.903	Basic Periodontal Surgery	3-3-0-0
651.904	Clinical practice on periodontal regeneration surgery	3-0-0-6
651.A48	History of Periodontology	3-3-0-0
651.A49	Research methodology in periodontal	3-2-2-0

	regeneration	
651.A50	References for Periodontology	3-3-0-0
651.A51	Periodontal treatment of medically compromised patients	3-1-4-0
651.A52	Advanced Peiordontal Treatment for Geriatric patients	3-1-4-0
651.681	Fluoride in Preventive Dentistry	3-3-0-0
651.682	Oral Health Statistics	3-3-0-0
651.683	Oral Health Education	3-3-0-0
651.684	Oral Epidemiology	3-3-0-0
651.685	Ethics in Oral Health Care	3-3-0-0
651.686	Oral Care Management	3-3-0-0
651.687	Oral Health Information Management	3-3-0-0
651.688	Oral Environment Control	3-3-0-0
651.689	Halitosis Prevention in Dentistry	3-3-0-0
651.690	Oral Care Social Insurance System	3-3-0-0
651.831	Introduction to primary preventive dentistry	3-3-0-0
651.832	Advanced to primary preventive dentistry	3-3-0-0
651.833	Advanced Oral Health Statistics	3-3-0-0
651.834	Critical thinking in Oral Health Field	3-3-0-0
651.835	Designing Oral Health Study	3-3-0-0
651.836	Oral Health Education Engineering	3-3-0-0
651.837	Community Dental Health	3-3-0-0
651.838	Evidence Based Preventive Dentistry	3-3-0-0
651.942	Prevention of Dental Caries	3-3-0-0
651.943	Prevention of Periodontal Disease	3-3-0-0
651.944	Programs for Prevention of Oral Diseases	3-3-0-0
651.945	National Health Insurance of Korea	3-3-0-0
651.946	Oral Health Care for Elders	3-3-0-0
651.947	General Health and Oral Health	3-3-0-0
651.948	International Oral Health Policy	3-3-0-0
651.949	Oral Health Policy	3-3-0-0
651.950	Methods in Oral Health Inequalities Measurement	3-3-0-0
651.951	Oral Health Planning	3-3-0-0
651.952	Dental policy and management	3-3-0-0
651.691	Tooth, Pulp and Periapical Lesions	3-3-0-0
651.692	Odontogenic Cyst and Tumors	3-3-0-0
651.693	Bacterial and Fungal Infections	3-3-0-0

651.694	Viral Infections	3-3-0-0
651.695	Salivary Gland Pathology	3-3-0-0
651.696	Congenital Malformation	3-3-0-0
651.697	Application of Molecular Biology	3-3-0-0
651.698	Autoimmune Diseases	3-3-0-0
651.699	Oral Mucosa Diseases	3-3-0-0
651.700	Clinical Pathology Conference	3-3-0-0
651.701	Experimental Pathology	
651.702	References for Pathological Study	3-3-0-0
651.767	Molecular Genetics	3-3-0-0
651.780	Stem cell pathology	3-3-0-0
651.A53	Oral periodontal Disease	3-3-0-0
651.A54	Oral Maxillofacial Growth Disorder Pathology	3-3-0-0
651.A55	Bone Pathology	3-3-0-0
651.A56	Oral Soft tissue Tumors	3-3-0-0
651.A57	Dermatologic Disease	3-3-0-0
651.A58	Dental Hard Tissue Disease	3-3-0-0
651.703	Salivary Gland Surgery	3-3-0-0
651.704	Temporomandibular Joint Disease	3-3-0-0
651.705	Maxillofacial Plastic and Reconstructive Surgery	3-3-0-0
651.706	Odontogenic Infection	3-3-0-0
651.707	Maxillofacial Teratology	3-3-0-0
651.708	Outpatient Dental Anesthesiology	3-3-0-0
651.A23	Oral and maxillofacial implantology	3-3-0-0
651.710	Maxillofacial Surgical Oncology	3-3-0-0
651.711	General Anesthesiology	3-3-0-0
651.712	Maxillofacial Traumatology	3-3-0-0
651.772	Orthognatic Surgery	3-3-0-0
651.773	Complications of Head and Neck Surgery	3-3-0-0
651.774	Tissue Graft	3-3-0-0
651.775	Clinical Molecular Biology	3-3-0-0
651.776	Maxillofacial Growth and Development	3-3-0-0
651.777	Maxillofacial Immunology	3-3-0-0
651.A24	Oral and maxillofacial distraction	3-3-0-0
651.A12	Alveolar distraction osteogenesis	3-3-0-0
651.A13	Recent journal review in the oral & maxillofacial surgery	3-3-0-0
651.A14	Cleft lip and palate reconstruction	3-3-0-0
651.A15	Face tissue engineering	3-3-0-0

651.A16	Advanced clinical application in oral implantology	3-3-0-0
651.890	Maxillofacial Esthetic Surgery	3-3-0-0
651.891	Orofacial Clefting Surgery	3-3-0-0
651.892	Maxillofacial Neurologic Disease	3-3-0-0
651.997	Treatment for Oral Cancer	3-3-0-0
651.998	Maxillary Sinus Diseases and Surgery	3-3-0-0
651.713	Clinical Pedodontics	3-3-0-0
651.714	Practice in Clinical Pedodontics	3-3-0-6
651.715	Seminar in Clinical Pedodontics	3-3-0-0
651.716	Pulp Treatment for Primary Teeth	3-3-0-0
651.717	Preventive Orthodontics in Pediatric Dentistry	3-3-0-0
651.718	fracture of Primary and Young Permanent Tooth	3-3-0-0
651.719	Facial Growth and Permanent Teeth Eruption of Child	3-3-0-0
651.721	Hospital dentistry	3-3-0-0
651.722	Soft Tissue Diseases in Oral Cavity of Children	3-3-0-0
651.758	Contemporary operative dentistry in pediatric dentistry	3-3-0-0
651.764	Eruption Guidance	3-3-0-0
651.766	Dental caries of children and adolescent	3-3-0-0
651.779	Treatment of Handicapped Children	3-3-0-0
651.800	Child management in Pediatric dentistry	3-3-0-0
651.839	Child application of laser in Pediatric dentistry	3-3-0-0
651.953	operative dentistry for adolescents	3-3-0-0
651.954	child psychology	3-3-0-0
651.955	oral & maxillofacial surgery of children and adolescents	3-3-0-0
651.956	Traumatology of children and adolescents	3-3-0-0
651.957	orthodontic diagnostics of children and adolescents	3-3-0-0
651.958	dental sedation	3-3-0-0
651.959	periodontal treatment of children and adolescents	3-3-0-0
651.960	functional orthodontic appliance treatment	3-3-0-0
651.961	oral health care of children and adolescents	3-3-0-0
651.962	TMD treatment of children and adolescents	3-3-0-0
651.963	preventive dentistry of children and adolescents	3-3-0-0

651.964	dental materials of operative dentistry for children and adolescents	3-3-0-0
651.965	Occlusal assessment of children and adolescents	3-3-0-0
651.966	Bacterial infections of oral soft tissues in children	3-3-0-0
651.967	Etiology of dental caries	3-3-0-0
651.968	Behavior management of children and adolescents	3-3-0-0
651.969	Early detection of dental caries	3-3-0-0
651.970	Caries risk assessment for children and adolescents	3-3-0-0
651.971	Developmental disorders of the teeth	3-3-0-0
651.972	dental emergency cares for children and adolescents	3-3-0-0
651.973	dental treatment of medically compromised patients	3-3-0-0
651.974	Esthetic dental treatment of children and adolescents	3-3-0-0
651.975	Growth and development of oral and maxillofacial section	3-3-0-0
651.976	oral diagnosis and treatment plan for children and adolescents	3-3-0-0
651.723	Clinical forensic Odontology	3-3-0-0
651.724	Craniofacial Pain	3-3-0-0
651.725	Headache and Facial Pain	3-3-0-0
651.726	Differential Diagnosis of Oral Soft Tissue Lesions	3-3-0-0
651.727	Laboratory Aids for Oral Diagnosis	3-3-0-0
651.728	Gnathography	3-3-0-0
651.729	Individual Identification	3-3-0-0
651.730	Advanced Oral Medicine	3-3-0-0
651.731	Psychology in Dentistry	3-3-0-0
651.732	Physical Therapy	3-3-0-0
651.733	Radiation Physics	3-3-0-0
651.734	Radiation Therapy for the Oral Malignancy	3-3-0-0
651.735	Radiographic Anatomy of Oral and Maxillofacial Region	3-3-0-0
651.736	Ultrasonography of Head and Neck	3-3-0-0
651.737	Diagnostic Imaging of Temporomandibular Joint	3-3-0-0
651.738	Radiation Cell Biology	3-3-0-0
651.739	Diagnostic Imaging of Salivary Gland	3-3-0-0
651.740	diagnostic Imaging of Paranasal Sinus	3-3-0-0

651.741	Implant Imaging	3-3-0-0
651.742	Diagnostic Imaging for Traumatology	3-3-0-0
651.765	Digitalized Diagnostic Imaging	3-3-0-0
651.905	radiologic technology	3-3-0-0
651.743	Pulp Irritants	3-3-0-0
651.744	Esthetic Plastic Filling	3-3-0-0
651.745	Pulp Disease	3-3-0-0
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651.747	Practice of Clinical Restorative Dentistry	3-0-0-6
651.748	Non-surgical Endodontics	3-3-0-0
651.785	Cariology in Conservative Dentistry	3-3-0-0
651.786	Restorative Dentistry	3-3-0-0
651.787	Vital Pulp Therapy	3-3-0-0
651.788	Restorative Dental Material)	3-3-0-0
651.789	Esthetic Restoration	3-3-0-0
651.790	Adhesive Dentistry	3-3-0-0
651.791	Cosmetic Restoratio	3-3-0-0
651.792	Cast Metal Restoration	3-3-0-0
651.793	Anatomy of Pulp Space	3-3-0-0
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651.795	Endodontic Dental Material	3-3-0-0
651.796	Diagnosis of Pulp and Periapical pathosis	3-3-0-0
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651.798	Surgical Endodontics	3-3-0-0
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651.A02	Dentin Hypersensitivity	3-3-0-0
651.A03	Emergency in Endodontics	3-3-0-0
651.A04	Restoration of Endodontically treated tooth	3-3-0-0
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651.A61	Advanced clinical topics of Pulp Disease	3-3-0-0
651.A62	Advanced Practice of Clinical Endodontics	3-3-0-6
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651.A69	Advanced clinical topics of Esthetic Restoration	3-3-0-0
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651.A71	Advanced clinical topics of Cosmetic Restoration	3-3-0-0
651.A72	Advanced clinical topics of Cast Metal Restoration	3-3-0-0
651.A73	Advanced clinical topics of Anatomy of Pulp Space	3-3-0-0
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651.A75	Advanced clinical topics of Endodontic Dental Material	3-3-0-0
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