

Curriculum: MDS (Perio)

1. Mapping of Programme Learning Outcomes (PLOs) against University Educational Aims (UEAs)

UEAs		PLOs		
	Indirect Evidence		Centrality	
			Core	Auxiliary
Critical intellectual enquiry and acquiring up-to-date knowledge and research skills in a discipline / profession	SLEQ	<p>Domain III Knowledge Base</p> <p>The MDS (Perio) graduate must have comprehensive knowledge* of the basic biomedical, clinical, medical and dental public health sciences relevant to Periodontology and be competent throughout the professional career to continuously acquire knowledge and develop understanding of the basic biological, medical, technical and clinical sciences in order to</p> <ul style="list-style-type: none"> • recognise departures from normal in periodontal structures • recognise the relationships between general and oral health • prevent the transmission of infectious diseases • recognise and institute procedures to ensure health and safety and minimize occupational health related to the delivery of periodontal and dental implant care • select and where indicated prescribe appropriate medications and biomaterials for periodontal care and dental implant therapy, including treatment of peri-implant biological complications. 	Core	

		<p>*this knowledge includes :</p> <ul style="list-style-type: none"> • comprehensive knowledge of the biomedical sciences relevant to dentistry in general and to Periodontology in particular • comprehensive knowledge of those aspects of medicine relevant to Periodontology • comprehensive knowledge of possible interactions between oral and systemic diseases and of the management of periodontal problems in medically compromised patients • knowledge of the historical development of Periodontology • comprehensive knowledge of the anatomy, histology and physiology of the periodontal tissues and related structures • knowledge of oral microbiology with emphasis on the following: the nature, composition and physiology of plaque biofilm and its relationship to inflammatory periodontal diseases • knowledge of techniques to identify microorganisms, their application and utility in periodontal practice • knowledge of calculus formation • comprehensive knowledge of infectious, inflammatory and immunological processes in oral diseases with emphasis on the pathogenesis of periodontal diseases • comprehensive knowledge of the principles of oral wound healing and periodontal and alveolar bone repair and regeneration • comprehensive knowledge of the tissue 		
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		<p>integration of dental implants</p> <ul style="list-style-type: none"> • comprehensive knowledge of the classification and epidemiology of periodontal diseases • comprehensive knowledge of imaging techniques and their interpretation as related to the diagnosis of periodontal diseases and monitoring of periodontal conditions and for implant therapy • comprehensive knowledge of behavioural/life-style risk factors for periodontal diseases and methods for their modification (including tobacco use, alcohol consumption, and diet) • comprehensive knowledge of the mechanisms, effects and interactions of medications used for the management of systemic diseases which may affect periodontal tissues and surrounding structures • comprehensive knowledge of the periodontal-systemic relationships • comprehensive knowledge of non-surgical periodontal therapy, including mechanical, chemical and other approaches to biofilm control • comprehensive knowledge of a range of surgical periodontal therapies, including open flap debridement, and reparative, resective and regenerative approaches • comprehensive knowledge of the influence of forces (traumatic, parafunctional, orthodontic) on the periodontium and related structures • comprehensive knowledge of the interrelationship of periodontitis and 		
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		<p>pulpal status, and the various approaches to treatment of combined periodontal-endodontic lesions</p> <ul style="list-style-type: none"> • comprehensive knowledge of the interrelationships of orthodontic and restorative therapies and periodontal treatment • comprehensive knowledge of the development and use of dental implants in the rehabilitation of partially edentulous periodontitis patients • comprehensive knowledge of peri-implant biological complications and their management • comprehensive knowledge of conditions such as halitosis and cervical dentine hypersensitivity, which are common complaints in periodontitis patients • comprehensive knowledge of supportive periodontal and peri-implant care 		
Application of knowledge and research skills to practice or theoretical exploration, demonstrating originality and creativity	SLEQ	<p>Domain III Information and Information Literacy</p> <p>The MDS (Perio) graduate must have an understanding of the historical development of periodontology, and be competent in accessing and critically evaluating the scientific literature, in continuously updating his/her knowledge base throughout his/her professional life and in evaluating scientific and technological advances, in posing research questions and preparing hypotheses for testing, in participating in the design and conduct of research, in the management and analysis of data, and in the</p>	Core	

		presentation of the research outcomes.		
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Tacking novel situations and ill-defined problems	SLEQ	<p>Domain IV Clinical Information Gathering</p> <p>The MDS (Perio) graduate must be competent in collecting all relevant information gained from the patient-centered interview, physical examination, imaging, investigations, reports etc. in such a way that accurate records can be made.</p> <p>Domain V Diagnosis and Treatment Planning</p> <p>The MDS (Perio) graduate must be competent in evaluating all relevant information so that appropriate diagnoses may be established and comprehensive treatment plans formulated for periodontally affected patients and communities.</p> <p>Domain VI Therapy: Establishing and Maintaining Periodontal Health</p> <p>The MDS (Perio) graduate must be</p> <ul style="list-style-type: none"> • proficient in all accepted methodologies for plaque (biofilm) control • proficient in educating patients on the aetiology and prevention of periodontal diseases and in motivating them to assume responsibility for their periodontal health • proficient in the delivery of non-surgical periodontal therapy • proficient in the mechanisms, application, effects and interactions of medications used for the prevention and treatment of periodontal diseases • proficient in a range of surgical techniques 	Core	
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		<p>used in periodontal therapy (including open flap debridement, and resective, reparative and regenerative approaches), being aware of their indications and contraindications, advantages and disadvantages</p> <ul style="list-style-type: none"> • proficient in surgical implant therapy for partially edentulous periodontally susceptible patients, including site development, surgical placement, and supportive care for dental implants • capable of participating in the rehabilitation of partially edentulous periodontitis patients using implant-borne restorations • proficient in evaluating the results of periodontal and implant treatment • proficient in establishing and monitoring supportive periodontal and peri-implant care programmes, in co-operation with other members of the dental team, including the continuous evaluation of likely risk factors • proficient in treatment of peri-implant biological complications <p>Domain VII Health Promotion</p> <p>The MDS (Perio) graduate must be competent at promoting and improving the periodontal health of individuals, families and groups in the community.</p> <p>Domain VIII</p>		
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		<p>Practice Management</p> <p>The MDS (Perio) graduate shall be able to apply basic principles of practice administration, financial and personnel management in the delivery of periodontal care within any dental or periodontal practice in which he/she offers periodontal care services.</p>		
Collaboration and communication of disciplinary knowledge to specialists and the general public	SLEQ	<p>Domain I Professionalism</p> <p>The MDS (Perio) graduate must be proficient in a wide range of analytical, investigative, planning, problem solving and team-work skills, and must be able to demonstrate an understanding of the roles and responsibilities of periodontally educated and trained practitioners in dental practice and within the profession, and the moral and ethical issues involved in the provision of periodontal care to individuals and to communities.</p> <p>Domain II Interpersonal, Communication and Social Skills</p> <p>The MDS (Perio) graduate must be competent in communicating about periodontal diseases and their management effectively, interactively and reflectively with patients, their families, relatives and carers, members of the dental team, dental colleagues in both general and specialist practice, and with other health professionals involved in the patients' care.</p>	Core	

		<p>The MDS (Perio) graduate must be competent in discussing the findings, diagnoses, aetiology, risks, benefits and prognoses of any proposed treatment options, with a view to facilitating patient participation in oral and periodontal care and holistic health management, and in obtaining informed consent including the patient's written acceptance of treatment plans and any modifications thereto. The MDS (Perio) graduate must be proficient in team-work and should display the potential for developing leadership skills.</p> <p>Domain VII Health Promotion</p> <p>The MDS (Perio) graduate must be competent at promoting and improving the periodontal health of individuals, families and groups in the community.</p>		
Awareness of leadership to personal and professional ethics	SLEQ	<p>Domain I Professionalism</p> <p>The MDS (Perio) graduate must be proficient in a wide range of analytical, investigative, planning, problem solving and team-work skills, and must be able to demonstrate an understanding of the roles and responsibilities of periodontally educated and trained practitioners in dental practice and within the profession, and the moral and ethical issues involved in the provision of periodontal care to individuals and to communities.</p>	Core	

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Enhancement of leadership and advocacy skills in a profession	SLEQ	<p>Domain I Professionalism</p> <p>The MDS (Perio) graduate must be proficient in a wide range of analytical, investigative, planning, problem solving and team-work skills, and must be able to demonstrate an understanding of the roles and responsibilities of periodontally educated and trained practitioners in dental practice and within the profession, and</p>	Core	

		the moral and ethical issues involved in the provision of periodontal care to individuals and to communities.		
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Core: PLOs considered central to the discipline or profession, and assessed
 Auxiliary: PLOs considered to be important but not assessed