

DENT90061 Plaque Related Diseases 1

Credit Points:	12.5
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2016, Parkville This subject commences in the following study period/s: January, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 60 (indicative) Total Time Commitment: 60 contact hours (indicative), 96 non-contact (indicative)
Prerequisites:	None.
Corequisites:	None.
Recommended Background Knowledge:	None.
Non Allowed Subjects:	None.
Core Participation Requirements:	<p><p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p><p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p> </p>
Coordinator:	Prof Stuart Dashper
Contact:	<p>Melbourne Dental School</p> <p>Currently enrolled students:</p> <p># General information: https://ask.unimelb.edu.au (https://ask.unimelb.edu.au)</p> <p># Email: enquiries-STEM@unimelb.edu.au (mailto:enquiries-STEM@unimelb.edu.au)</p>
Subject Overview:	<p>This subject will assist students develop knowledge regarding the common oral diseases that are caused by bacteria that are part of dental plaque. This is a highly integrated subject that brings together advanced concepts in chemistry, biochemistry, microbiology, pharmacology, anatomy and clinical practice that are relevant to the understanding of oral health and disease, especially dental caries. Students will learn about tooth structure and salivary composition down to the molecular level in both health and disease. They will learn about the oral microbiome and how these bacteria are related to health and disease and be guided through the clinical steps of diagnosis of dental caries. Students will engage in problem-based learning exercises simulating clinical situations to prepare them for dental clinical practice. They will participate in computer based learning exercises that will enable them to understand the pathogenic nature of some bacteria and the host immune response to both commensural and pathogenic bacteria. In addition the mechanisms of antimicrobial and antiplaque agents will be addressed.</p>
Learning Outcomes:	<p>On completion of this subject, the students will be able to:</p> <ol style="list-style-type: none"> 1 discuss the concepts of biomineralisation in relation to the oral cavity; 2 summarise the initiation and progression of dental caries at a molecular, microbiological, visual and clinical level; 3 comprehend the principles of bacterial pathogenesis in oral infection; 4 explain the principles of antimicrobial chemotherapy;

	<p>5 apply the principles and characteristics of microbial ecology to the oral cavity in health and disease;</p> <p>6 justify the application of appropriate preventive and therapeutic regimes for dental caries;</p> <p>7 interpret the role of research in the development of rational treatments and preventive regimes;</p> <p>8 evaluate clinical manifestations of plaque related diseases of the hard tissues in terms of disturbances of structure and function.</p>
Assessment:	PBL participation and assignment (flow diagram and report) on cariology in Block 1 (15%); 4 x 15 minute class tests on cariology - one in Block 1 and 3 in Block 2 (10%); 4 CAL tasks on Microbiology: 3 in Block 1, 1 in Block 2 (15%); 1 x 2 hour written exam on cariology at the end of Semester 1 (60%). Formative and summative assessments will be conducted to provide feedback to students and to generate a grade. Hurdle Requirements: 75% attendance at Lectures; 100% attendance at Practical Classes (including Computer Assisted Learning [CAL] & Problem Based Learning), and Workshops
Prescribed Texts:	None
Recommended Texts:	<p>Lindhe J, Kagging T and Lang N 2008 <i>Clinical Periodontology and Implant Dentistry</i> 5th ed, Munksgaard</p> <p>OR</p> <p>Takei H, Newman MG, Carranza FA Jr 2006 <i>Carranza's Clinical Periodontology</i>, 10 th ed, Saunders</p> <p>Fejerskov O, Kidd E 2008 <i>Dental Caries: The Disease and its Clinical Management</i>, 2 nd ed.</p>
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<p>Students should:</p> <ol style="list-style-type: none"> 1 be able to access new knowledge from different sources, analyse and interpret it in a critical manner; 2 have developed skills in effective communication with teaching staff and peers; 3 have developed effective organisational skills and time management; 4 be able to identify and address their own learning needs; 5 develop skills in analysing and evaluating experimental and clinical data.
Related Course(s):	Doctor of Dental Surgery