**KING SAUD UNIVERSITY**

**COLLEGE OF DENTISTRY**

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| **Course Specification** | | |
| Course Title: | **Medical Emergencies in Dental Practice** | |
| Course Code: | **411 MFS (GUC-Female)** | |
| Course Director(s): | **Dr. Sundar Ramalingam** | |
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| Department: | **MFS – Maxillofacial Surgery** | |
| Academic Year | **2015 – 2016G [1436 – 1437H]** | |

**Course Specificationform**

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| Institution: **King Saud University – College of Dentistry** |
| College/Department : **Maxillofacial Surgery** |

**A Course Identification and General Information**

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| 1. Course title and code:   **Medical Emergencies in Dental Practice - 411 MFS** |
| 2.  Credit hours: **1 Hour (Lecture)** |
| 3.  Program(s) in which the course is offered :  **Bachelor Degree of Dentistry(BDS)** |
| 4.  Name of faculty member responsible for the course  **Dr. Sundar Ramalingam** |
| 5.  Level/year at which this course is offered :  **Fourth Year (first semester)** |
| 6.  Pre-requisites for this course (if any)  **311MFS (Clinical Oral Surgery 1)**  **312MFS (Clinical Oral Surgery 2)** |
| 7.  Co-requisites for this course (if any)  **NIL** |
| 8.  Location if not on main campus  **Female Students Campus (GUC)** |

**B  Objectives**

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| 1.  Summary of the main learning outcomes for students enrolled in the course.   Upon successful completion of the course, the students should be able to:   1. Demonstrate sound knowledge about the principles and concepts of managing medically compromised patients coming for dental treatment.(1.2,1.3,1.4,1.7) 2. Define principles of history taking and physical examination.(1.2,1.3) 3. Recognize complications and medical emergencies arising as a result of dental treatment of medically compromised patients.(1.2,1.3) 4. Recollect principles of medical referral and consultation.(1.7) 5. Apply the knowledge of theories and principles to identifymedically compromised patients attending for dental treatment in a case scenario. (2.1,2.2,2.3) 6. Justify use of appropriate medication and formulate a treatment plan in a case scenario.(2.1,2.2,2.3) |
| 2.  Briefly describe any plans for developing and improving the course that are being implemented.  (eg increased use of IT or web based reference material,  changes in content as a result of new research in the field) |

**C.  Course Description**

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| **1. Topics to be Covered** | | | | | |
| **Topic** | | | **No. Of Weeks** | | **Contact hours** |
| Physical Examination and Patient Preparation | | | 1 | | 1 |
| Management of Patients with Respiratory Diseases | | | 1 | | 1 |
| Management of Patients with Endocrine Diseases | | | 1 | | 1 |
| Management of Patients with Neurological Disorders | | | 1 | | 1 |
| Management of Patients with Cardiovascular Diseases | | | 1 | | 1 |
| Management of Patients with Hepatorenal Diseases | | | 1 | | 1 |
| Management of Cancer Patients | | | 1 | | 1 |
| Management of Patients with Blood Disorders | | | 1 | | 1 |
| Management of Patients with Allergy, Hypersensitivity and Anaphylaxis | | | 1 | | 1 |
| Hospital Management of Surgical Patients | | | 1 | | 1 |
| Sedation for Minor Oral Surgical Procedures | | | 1 | | 1 |
| Fluid and Electrolyte Replacement | | | 1 | | 1 |
| **TOTAL** | | | **12** | | **12** |
| 2. **Course components (total contact hours per semester)**: | | | | | | |
| Lecture:  **12** | Tutorial: | Practical/Fieldwork/Internship: | | Other: | | |
| 3. **Additional private study/learning hours expected for students per week.**  **3 hours per week** | | | | | | |

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| **4. Development of Learning Outcomes in Domains of Learning** | | | |
| 1. **Knowledge** | | | |
| (i)  Description of the knowledge to be acquired  Upon successful completion of the course, the students should be able to:   1. Identify medical problems that might be seen among dental patients 2. Define principles of history taking and physical examination in medically compromised dental patients. 3. Recognize complications and medical emergencies arising as a result of dental treatment of medically compromised patients. 4. Recollect principles governing the use of medication and medical referral in medically compromised patients. 5. Describe concepts of fluid, electrolyte and acid base management 6. Describe principles and procedures of sedation techniques for dental surgical procedures 7. Summarize principles and procedures of managing hospitalized patients 8. Outline principles and procedures of managing cancer patients | | | |
| (ii)  Teaching strategies to be used to develop that knowledge   1. Lectures with discussion. 2. Assigned reading of prescribed textbooks, reference books and journals. | | | |
| (iii)  Methods of assessment of knowledge acquired   1. Formative Assessment 2. Mid-term Examination (at 6th week and 12th week of the Semester) 3. Final examination (at the end of the semester) | | | |
| 1. **Cognitive Skills** | | | |
| (i)  Cognitive skills to be developed  Upon successful completion of the course, the students should be able to:   1. Apply the knowledge of theories and principles in identifying medically compromised patients attending for dental treatment. 2. Justify the use of appropriate medication/prescription drugs for the patient. 3. Formulate a treatment plan in a case scenario. | | | |
| (ii)  Teaching strategies to be used to develop these cognitive skills   1. Case scenario based discussion and problem solving sessions at the end of each lecture session. 2. Case scenario based questions in the continuous assessment exams. | | | |
| (iii)  Methods of assessment of students cognitive skills   1. Written examination in the form of multiple choice questions. | | | |
| **c. Interpersonal Skills and Responsibility** | | | |
| (i)  Description of the interpersonal skills and capacity to carry responsibility to be developed  N/A | | | |
| (ii)  Teaching strategies to be used to develop these skills and abilities  N/A | | | |
| (iii)  Methods of assessment of students interpersonal skills and capacity to carry responsibility  N/A | | | |
| **d.   Communication, Information Technology and Numerical Skills** | | | |
| (i)  Description of the skills to be developed in this domain.  Upon successful completion of the course, the students should be able to   1. Write a referral form for other specialties seeking consultation/opinion in a case scenario. 2. Write prescriptions with the knowledge of prescription drugs in the practice of minor oral surgery in a case scenario. | | | |
| (ii)  Teaching strategies to be used to develop these skills   1. Lectures and assigned reading. 2. Case scenario discussion 3. Group assignments | | | |
| (iii)  Methods of assessment of students numerical and communication skills   1. Group assignments | | | |
| **e.  Psychomotor Skills (if applicable)** | | | |
| (i)  Description of the psychomotor skills to be developed and the level of performance required  N/A | | | |
| (ii)  Teaching strategies to be used to develop these skills  N/A | | | |
| (iii)  Methods of assessment of students psychomotor skills  N/A | | | |
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| **5. Schedule of Assessment Tasks for Students During the Semester** | | | |
| **Assessment** | **Assessment task** | **Week due** | **Proportion of Final Assessment** |
| Mid-Term Assessment Exam 1 | MCQ Examination | 6th Week | 30% |
| Mid-Term Assessment Exam 2 | MCQ Examination | 12th Week | 30% |
| Final Exam | MCQ Examination | 16th Week | 40% |

**D. Student Support**

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| **1. Arrangements for availability of faculty for individual student consultations and academic advice.**  The students can approach the course faculty during their office hours (not less than 2 hrs per week) for consultations regarding the course content, clarification of doubts and academic counselling pertaining to the course. |

**E. Learning Resources**

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| 1. Required Text(s)  **Dental Management of the Medically Compromised Patient**  **Author: James W. Little**  **Edition/Published by: 8th Edition / Mosby-Elsevier, 2012.** |
| 1. Essential References  * **Medical Problems in Dentistry, 6th Edition by Crispian Scully** |
| 1. Recommended Books and Reference Material (Journals, Reports, etc) (Attach List)  * **International Journal of Oral and Maxillofacial Surgery** * **Journal of Oral and Maxillofacial Surgery** * **Triple “O” Journal** * **Dental Clinics of North America.** |
| 1. Electronic Materials, Web Sites etc  * **Pubmed** * **Medscape** * **Sciencedirect** |
| 1. Other learning material such as computer-based programs/CD, professional standards/regulations |

**F. Facilities Required**

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| Indicate requirements for the course including size of classrooms and laboratories (ie number of seats in classrooms and laboratories, extent of computer access etc.) |
| 1.  Accommodation (Lecture rooms, laboratories, etc.)   * **Lecture rooms enabled with “Smart Class Room”** |
| 2. Computing resources   * **Access to internet – available throughout the campus.** |
| 3. Other resources (specify --eg. If specific laboratory equipment is required, list requirements or attach list) |

**G   Course Evaluation and Improvement Processes**

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| * 1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching * **Feedback questionnaires returned from students during each continuous assessment exam.** * **Personal discussion between the faculty and students.** |
| * 1. Other Strategies for Evaluation of Teaching by the Instructor or by the Department * **Discussion regarding feedback in department meeting.** * **Course Evaluation Survey conducted by the Quality development unit of the College.** |
| * 1. Processes for Improvement of Teaching * **Making appropriate changes when necessary based on obtained feedback.** |
| * 1. Processes for Verifying Standards of Student Achievement (eg. check marking by an independent faculty member of a sample of student work, periodic exchange and remarking of a sample of assignments with a faculty member in another institution) * **Reviewing of exams by Undergraduate Committee of the department.** |
| * 1. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement. * Under the guidance of the departmental under graduate education committee, the feedback obtained from students in the form of surveys and individual observations by faculty shall be discussed and reviewed periodically.   . |