COURSE DATA

Data Subject	
Code	34725
Name	Dentistry for patients with special needs
Cycle	Grade
ECTS Credits	6.0
Academic year	2017 - 2018

Study (s)

Degree	Center	Acad. year	Period
1206 - Degree in Dentistry	Faculty of Medicine and Odontology	5	First term

Subject-matter

Degree	Subject-matter	Character
1206 - Degree in Dentistry	24 - Dentistry in special patients	Obligatory

Coordination

Name	Department
SILVESTRE DONAT, FRANCISCO JAVIER	131 - Stomatology

SUMMARY

The advances made in Medicine and Dentistry require us to adapt our knowledge and skills to the new technologies and the new patient profiles. The increase in life expectancy and the progressive aging of the population in the industrialized world, as well as the improved survival rates among patients with critical systemic diseases or with serious malformations and disabilities, make it necessary to adequately adapt the methods and techniques in specific dental care – attempting to improve dental treatment without negative effects upon patient health. In the social setting it is important to address the buccodental care challenges posed by patients of this kind, including individuals with serious mental problems or physical disabilities.

This obligatory subject is imparted in the last course, when the students have already acquired knowledge and skills in basic general dental care. In this subject they will become familiarized with the special characteristics and care measures required for the dental treatment of patients with different systemic disorders and disabilities. Theoretical-practical and clinical classes will address the special modifications, care and means needed in relation to each type of patient, such as for example the application of treatments under sedation or general anesthesia.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

1206 - Degree in Dentistry :

1210 - Grado de Odontología 2012 :

R4-OBLIGATION TO HAVE SUCCESSFULLY COMPLETED THE COURSE

34714 - Oral medicine

34715 - Oral surgery

34723 - Periodontics

34714 - Oral medicine

34715 - Oral surgery

34723 - Periodontics

Other requirements

OUTCOMES

1206 - Degree in Dentistry

- Establecer el diagnóstico, pronóstico y una adecuada planificación terapéutica en todas las áreas clínicas de la Odontología, siendo competente en el diagnóstico, pronóstico y elaboración del plan de tratamiento odontológico del paciente que requiera cuidados especiales, incluidos los pacientes médicamente comprometidos (como diabéticos, hipertensos, inmunodeprimidos, anticoagulados, entre otros) y pacientes con discapacidad.
- Reconocer las situaciones de riesgo vital y saber hacer maniobras de soporte vital básico.
- Saber planificar y realizar tratamientos odontológicos multidisciplinares, secuenciales e integrados de complejidad limitada en pacientes de todas las edades y condiciones y de los pacientes que requieran cuidados especiales.
- Adquirir experiencia clínica bajo la adecuada supervisión.
- Conocer las bases farmacológicas de las distintas técnicas anestésicas tanto locales como generales, así como el papel de la sedación y la anestesia general en el manejo del paciente odontológico.
- Identificar al paciente que requiera cuidados especiales, reconociendo sus características y peculiaridades.
- Identificar, valorar y atender emergencias y urgencias médicas que puedan presentarse durante la práctica clínica odontológica y aplicar técnicas de resucitación cardio-pulmonar.

LEARNING OUTCOMES

The student must acquire knowledge and skills in planning the dental treatment of patients that pose medical risks or which present dental management difficulties as a result of behavioral problems (mental disabilities) or due to the dental techniques used (risk of bleeding, excessive infection risk, minimal oral aperture, excessive dribbling, etc.).

The student must know the oral characteristics of certain typical lesions or conditions which are commonly seen in special patients and that make them more vulnerable to dental treatment.

Students must be able to evaluate the possible specific clinical risks of a dental patient, and should know the specific protocol and clinical guidelines applicable in each case in relation to buccodental care.

The student should be able to act adequately and effectively in the context of dental treatment in certain medical emergency situations.

Lastly, students must be able to evaluate and make correct decisions in cases of interactions between the dental treatment provided and patient systemic disease processes or drug treatments.

DESCRIPTION OF CONTENTS

1. The patient with medical risks in dental practice. Patients with special dental treatment needs. Estimation of medical risk in the dental clinic. Exploration findings in the dental patient.

2. Dental treatment in situations with medical risks. Monitorization in dental practice. Clinical protocols or guidelines for the dental treatment of patients at risk.

3. The most frequent emergencies in the dental clinic. Basic and advanced life support.

4. Dental management of patients with bleeding risk.

5. Dental management of patients with hematological disease.

6. Dental management of patients with cardiovascular disease.

7. Dental management of patients with renal failure. Patients on hemodialysis.

8. Dental management of patients with liver failure.

9. Dental management of patients with gastrointestinal disorders.

10. Dental management of patients with immune deficiencies and risk of infection.

11. Dental management of patients with rheumatological disease.

12. Dental management of patients with respiratory disease.

13. Dental management of patients with endocrine disease.

14. The oncological patient in dentistry. Patients subjected to radical surgery and requiring maxillofacial prostheses.

15. Dental management of the irradiated patient. Dental management of patients subjected to chemotherapy.

16. Dental management of patients with neuromuscular disease. Neuromuscular disorders requiring special dental treatment measures. The epileptic patient in the dental clinic.

17. Dental management of patients with chronic neurodegenerative disorders. Patients with Parkinsons disease and with Alzheimers disease.

18. Dental management of patients with psychiatric disorders.

19. The disabled patient in dental practice. Disability and incapacitation. General dental care criteria. Criteria for dental treatment under sedation or local or general anesthesia.

20. Dental management of patients with physical disabilities. Dental management of patients with sensory defects; the deaf and blind patient.

21. General dental treatment of patients with mental disabilities. General management criteria. Physical restraints: types and models. Adapted care.

22. Dental management of patients with cerebral paralysis. Dental care of autistic patients.

23. Dental management of mentally retarded patients or cognitive disorders. Dental management of patients with Down syndrome. Management of patients with rare diseases.

WORKLOAD

ACTIVITY	Hours	% To be attended
Odontology practices	40,00	100
Theory classes	26,00	100
Laboratory practices	14,00	100
Computer classroom practice	10,00	100
Development of group work	20,00	0
Study and independent work	20,00	0
Preparing lectures	10,00	0
Preparation of practical classes and problem	10,00	0
TOTAL	**150,00**	

TEACHING METHODOLOGY

The theoretical classes will by dynamically combined with clinical cases, placing emphasis on the most up to date protocol to be used in the cases that are presented. Seminars will be programmed, offering an introduction to clinical research in medically impaired and disabled patients, serving as a basis for the conduction of a review study on the part of the student. Other seminars will address basic and advanced life support, as well as general anesthesia in dental practice. In turn, practical workshops will address monitorization, and emergency drug use and management of disabled patients. The course is complemented with clinical practices on special outpatients in different clinics specialized in the treatment of profoundly disabled and medically impaired patients. Clinical practices also will be held in the University dental clinic.

EVALUATION

Evaluation of student assimilation of the contents of the course will be fundamented on the following elements:

1) **Theory:** There will be a written examination of the elements of the subject at the end of the academic term. This examination will represent 80% of the final grade.

2) **Practices:** Evaluation will be made of active participation in the clinical practices and workshops, based on a final report on what has been done and on the patients seen. This part of the program will represent 10% of the final grade.

3) A **work** done with a clinical guide referred to special patients during the course will be evaluated. This work will be done by students working in pairs, and will represent 10% of the final grade.

In order to access to an advance on the call of this subject, it is a requirement that the student has coursed with benefits all his/her practices.

REFERENCES

Basic

- Silvestre FJ, Plaza A. Odontología en pacientes especiales. Valencia: PUV Publicacions de la Universitat de València, 2007.
- Scully C, Diz-Dios P, Kumar N. Special Care in Dentistry. Churchill Livingstone-Elsevier: Londres, 2007.
- Elías R. Odontología para pacientes con necesidades especiales. Ripano: Madrid, 2008.

Additional

- Pinto da Silva LC, de Almeida Cruz R. Odontologia para pacientes com necessidades especiais. Protocolos para o atendimento clínico. Santos Ed: São Paulo, 2009.
- Raposa KA, Perlman SP. Treating the dental patient with a developmental disorder. Wiley-Blackwell: Ames, 2012.
- Fiske J. Special Care Dentistry.Quintessence Publishing Co: Londres, 2007.