



# *The Hebrew University of Jerusalem*

## *Syllabus*

### *PEDODONTICS - 97869*

*Last update 27-10-2015*

*HU Credits: 8*

*Degree/Cycle: 2nd degree (Master)*

*Responsible Department: dental medicine*

*Academic year: 0*

*Semester: Yearly*

*Teaching Languages: Hebrew*

*Campus: Ein Karem*

*Course/Module Coordinator: Prof. Diana Ram*

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*Teaching Staff:*

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Course/Module description:

*This is a clinical course based on the theoretical 5th year pediatric dentistry course, which enables the student to learn and develop the base of dental treatment in pediatric patients as well as clinical experience of treating children. The first part of the course includes the basic of restorative dentistry in phantom and the second part includes comprehensive dental treatment of a pediatric dental patient. Clinical supervised sessions in which the student learns how to build an appropriate treatment plan, record clinical and radiographic data and establish a preventive plan and to perform the adequate restorative treatment.*

Course/Module aims:

- *To establish a child patient–dentist relationship that allows the effective delivery of dental treatment including a relationship with a parent.*
- *To make a clinical and radiographic evaluation of a child and to build an appropriate treatment plan.*
- *To successfully treat cooperative healthy school age children, using appropriate behavior management techniques.*
- *To effectively and efficiently perform dental treatment and at the same time instill a positive dental attitude.*

Learning outcomes - On successful completion of this module, students should be able to:

- *Manage the concepts of total patient care and the dentist's responsibility for the safe and effective management of children and adolescents in a dental situation;*
- *Manage the concept and practice of ongoing total patient care in the prevention, identification, assessment and treatment of oral diseases - as opposed to the episodic management of symptomatic oral problems;*

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- Perform an accurate examination, diagnosis, treatment plan and accurate record-taking before commencing the care of child and adolescent patients whether or not they have advanced or complicated problems;
  - Ensure the maintenance of oral health after restorative treatment of child and adolescent patients, including those with advanced or complicated problems;
  - Decide when a child needs to be referred to a specialist in pediatric dentistry in those situations which cannot be successfully managed in the general dental practice or require specialist advice or intervention;
  - Have a preventive and minimal intervention approach to the treatment of routine dental disorders;
  - Properly manage the behavioral and management aspects of child and adolescent patients;
  - Provide urgent dental treatment of uncomplicated traumatic dental injuries in deciduous and permanent dentitions or refer the more severe cases to a specialist in pediatric dentistry.
  - Identify the signs of non-accidental injury and child abuse and neglect and referral to appropriate social services.

Attendance requirements(%):

80%

Teaching arrangement and method of instruction: Lectures & Clinical Practice

Course/Module Content:

- Lectures: Aims of the course and introduction to pediatric dentistry.
  - Comparative dental anatomy of primary teeth and young permanent teeth. The use of rubber dam (2 hrs). Restorative dentistry for primary teeth (2 hrs).
  - Diagnosis and prevention: Caries treatment and the use of fissure sealants (2 hrs). Esthetic restorations in dentistry for children (1 hr).
  - Radiology in dentistry for children (1 hr).
  - Local anesthesia in pediatric dentistry (2 hrs).
  - Caries Risk Assessment and Early Childhood Caries (2hrs).
  - Treatment planning and integration of clinical and radiographic examination (2 hrs). Behavior management techniques (4 hrs).
  - Biology, pathology and diagnosis of the pulp in primary teeth (2 hrs).
  - Pulp treatment in primary and young permanent teeth (4 hrs).
  - The mode of action, benefits and risks associated with the use of different modalities of fluoride and the rational use in patients(2 hrs).
  - Anomalies in tooth development (hereditary and environmental) (2 hrs).
  - Prevention of abuse and neglect through dental awareness (2 hrs).
  - Developmental anomalies of the teeth: supernumerary and missing teeth (2hrs).
- Dental trauma of the permanent dentition: etiology, epidemiology and classification

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(1 hr).

- *Diagnosis and treatment following non-complicated crown fracture of anterior permanent teeth (1 hr).*
- *Diagnosis and treatment following complicated crown fracture of anterior permanent teeth (1 hr).*
- *Diagnosis and treatment following root fracture of permanent teeth (1 hr).*
- *Diagnosis and treatment of supporting tissues after dental trauma (1 hr).*
- *Dental trauma of the primary dentition: diagnosis, treatment and consequences (2 hrs).*
- *Interceptive and preventive orthodontics in pediatric dentistry: the use of space maintainers (1hr).*
- *Handicapped children and dental treatment (1 hr).*
- *The use of sedation and general anesthesia in treatment of behaviorally problematic children (1 hr).*

**Required Reading:**

1. Text book: McDonald RE, Avery DR, Dean JA.
2. Dentistry for the child and adolescent. 9th ed. St. Louis: Mosby; 2010
3. In addition each lecturer recommends update references from relevant update scientific journals.

**Additional Reading Material:**

*Pediatric Dentistry: Infancy through Adolescence, 5e (PEDIATRIC DENISTRY) 5th Edition*

*Paul S. Casamassimo ,Henry W. Fields Jr. , Dennis J. McTigue , Arthur Nowak*

**Course/Module evaluation:**

End of year written/oral examination 50 %  
Presentation 0 %  
Participation in Tutorials 0 %  
Project work 0 %  
Assignments 0 %  
Reports 0 %  
Research project 0 %  
Quizzes 0 %  
Other 50 %  
clinical work

**Additional information:**

Course evaluation:

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- o Written test at the end of 1st Semester - 20%*
  - o End of year written examination - (multiple choice and open answer questions) - 30%*
  - o Clinical Continuous Assessment - 30% of the final grade*
  - o Clinical requirements - 20% (70 points - which includes check up, restorative and preventive dental treatments)*

*Additional information:*

*Pass standard and any special requirements for passing module: 50%. End of Year Written Examination Profile: Written test at the end of the first semester (open questions). Written test at the end of the year: multiple choice and open questions test.*