



**15<sup>th</sup> Oman Dental Conference**  
**Pre-Conference**  
**Fixed Appliances at a Glance**  
**Saturday 13<sup>th</sup> December 2008**



**In collaboration with Royal Oman Police Hospital**

**Venue:** Post Graduate Centre, Al- Nahdha Hospital

**Presenters:**

**Dr. Nasser Al- Manthery**

BDS NUI, MSc UCL, MOrth RCS Ed, FDS RCS, FFD RCSI  
Consultant in Orthodontics  
Royal Oman Police Hospital



**Course Duration:** One Day (8.30 to 17.30)

**CPD Credit Hours:** (To be added later)

**Course Outline**

The course will include lectures on assessment, diagnoses and treatment planning of orthodontic patients with different malocclusions. It will explain the different systems of fixed appliances and how to choose the appropriate system for a specific malocclusion, with the aid of models picture and videos. The second part of the course will concentrate on the mechanics and mode of action of fixed appliances.

**Aims and Objectives**

- Appreciate the psychological effects of malocclusion on an individual.
- Understand the principles of full clinical assessment of orthodontic cases..
- Be able to diagnose different types of malocclusions and propose suitable treatment plans for different malocclusions.
- Be familiar with different systems of fixed appliances and their components.
- Understand the mechanics of fixed appliances.

**Learning Outcomes**

- Be able to assess, diagnose and propose a treatment plan for an orthodontic case.
- Understand the mode of action of different system of fixed appliances and be able to choose the appropriate system for a given malocclusion.

## PROGRAM

### **AM Lectures**

8.15 – 8.30     **Registration**

8.30 – 9.30     **Introduction:** Beauty and Attractiveness

Psychological effects of having a malocclusion on an individual

9.30 – 10.15     **Clinical assessment of orthodontic patients**

- Extra- Oral Examination
- Intra- Oral Examination
- Investigations: Radiographs, Records
- Taking pictures of the patient (**video**)

**Diagnoses of different malocclusions. (video)**

**Aetiology of malocclusion (video)**

10.15 – 10.35     **Tea/Coffee Break**

10.35 – 12.00     **Treatment planning for different malocclusions** (including short **videos**).

- Class I
- Class II div 1
- Class II div 2
- Class III

12.00 – 12.40     **Examples of Clinical Cases**

**Practical exercise:** treatment planning for different malocclusions

Step by step explanation of appliances and mechanics used to treat these cases.

12.40 – 2.00     **Prayer/ Lunch Break**

### **PM Lectures/ Demonstration**

**2.00 - 5.00     Biomechanics (Fixed Appliances)**

2.00 – 2.45     **Biology of tooth movement (video)**

**History of fixed appliances**

**Different systems of fixed appliances:**

- Begg Appliance
- Straight Wire Appliance
- Tip Edge Appliance

### Components of SWA

- Brackets (types, tip, torque)
- Archwires (types, properties)
- Ligatures (types, properties)

### 2.45 – 3.00 Tea/ Coffee Break

### 3.00 – 5.00 Stages of Treatment

- Phase I- leveling and aligning  
Retraction of canines
- Phase II- overbite correction  
Space closure and overjet reduction  
Finishing procedures

**Fitting the appliance:** different stages of fitting the appliance and the instrument and material used in each stage will be explained in details with the aid of audiovisual demonstration.

- Separators (**video**)
- Bands and buccal tubes (**video**)
- Bond up-fitting the brackets (**video**)
- Lace back (video)
- Placing the archwire and ligation (**video**)
- Auxiliaries: elastic chains and traction (**video**)

### Indirect bonding (**video**)

- Laboratory procedure
- Clinical procedure

### Debonding the appliance (**video**)

- Different debonding instruments
- Removing residual cement
- Post treatment records

### Retention

Types of retainers (most commonly used)

- Hawley retainers
- Essex retainers
- Fixed retainers

### 17.00 – 17.30 Discussion / Distribution of Certificates

## **End of The Course**

- **Please fill in your evaluation form before collecting your Certificate of Attendance**

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