**Orthognathic Surgery for the Orthodontic Postgraduate Resident**

**Course Director:**

**Professor Eman AlKofide**

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**Objectives of Course:**

1. To identify the norms of skeletal structures & soft tissue and differentiate them from those requiring surgical correction.
2. To familiarize the postgraduate resident with the different dentofacial deformities requiring Orthognathic surgery.
3. Establish proper diagnosis and treatment planning of Orthognathic surgical patients.
4. To acquaint the Orthodontic resident with the various surgical methods required for each individual case.
5. To gain knowledge in Orthodontic treatment of patients pre-surgically and post-surgically.

**Goals of Course:**

This series of lectures should enable the Orthodontic postgraduate resident to:

1. Conduct appropriate clinical examination of Orthognathic surgical patients.
2. Critically diagnose and differentiate patients in need of Orthodontic treatment alone vs. Orthodontics and Surgery
3. Develop a proper comprehensive Orthodontic & surgical treatment plan.
4. Provide pre-surgical, as well as post-surgical Orthodontic treatment & care.

**Course Outline**

1. Treatment Need & Prevalence of Dentofacial problems

***(By Proffit, White, & Sarver)***

1. Evaluation of the Soft Tissue of the patient

***(By Proffit, White, & Sarver)***

1. Diagnosis & Treatment planning of surgical cases

***(By Proffit, White, & Sarver)***

1. Combining Surgery & Orthodontics for the surgical patient ***(By Proffit, White, & Sarver)***
2. Standard analytic model planning for Orthognathic surgery. \*
3. Clinical treatment of mandibular deficiency

***(By Proffit, White, & Sarver)***

1. Clinical treatment of Long & Short face problems; & Maxillomandibular deficiency

***(By Proffit, White, & Sarver + Posnick)***

1. Treatment of Class III problems

***(By Proffit, White, & Sarver)***

1. Treatment of Bimaxillary Protrusion, & Dentofacial Asymmetries

***(Posnick + Proffit, White, & Sarver).***

10. Rotation of the maxillomandibular complex, Treatment of

Open bites, and Idiopathic condylar resorption

***(By Reyneke + Posnick).***

11. Esthetic alteration of the chin, Adjunctive esthetic

surgery & Dentofacial disharmonies in adults: Reconstruction& Rejuventation

***(By Posnick + Proffit, White, & Sarver)***

12. Surgical techniques. \*

13. Obstructive sleep apnea and Nasal Airway considerations:

 Evaluation and treatment

***(By Posnick)***

14. Treatment of Cleft lip & Palate, Syndromes

***(By Posnick)***

15. Final Examination

\*Conducted by an Oral Surgeon

**References:**

***Textbooks:***

* "Contemporary Treatment of Dentofacial Deformity", by W.R. Proffit, R.P. White, D.M. Sarver, Mosby, 2003.
* “Orthognathic surgery Principles & Practice”, by Jeffery Posnick, Elsevier, 2014.
* “Essential of Orthognathic Surgery; Second Edition”, By Johan Reyneke, Quintessence, 2010.
* "Facial & Dental Planning for Orthodontists & Oral Surgeons", by Arnett & McLaughlin, Mosby, 2004.