

## **Department of Oral & Maxillofacial Surgery Beilinson Campus**

**Head - S. Calderon, D.M.D., Senior Lecturer**

### **Staff:**

**Y. Anavi, D.M.D.** - Instructor  
**G. Gal, D.M.D.** - Instructor  
**R. Manor, D.M.D.** - Instructor  
**R. Gleis, D.M.D.** - Instructor  
**I. Kaplan, D.M.D.** - Lecturer  
**D. Muscona, D.M.D.** - Assoc. Professor  
**A. Gavish, D.M.D.** - Lecturer

### **Description**

The department has been recognized by the Scientific Council of the Israeli Medical and Dental Association for specialization in the field of Oral and Maxillofacial Surgery since 1987 and is affiliated to the Tel Aviv University School of Medicine.

The department operates in the different fields of oral and maxillofacial surgery, admitting patients from the emergency room. Its major field of interest is oral and facial disease and dentofacial deformities, for which the department serves as a major referral center.

1. Inpatient Department - 8 adult beds
2. Outpatients Clinic - includes the following specialized services:
  - Oral Medicine and Oral Pathology
  - Orthodontics - pediatric and adults
  - Dental Implants and related surgery
  - Temporo-mandibular Joint Disorders and Facial Pain
  - Halitosis clinic

### **Clinical and Research Activities**

#### **Clinical Activities**

1. Minor ambulatory surgery
2. Treatment of pathological conditions of the oral and maxillofacial area
3. Orthodontic and orthognathic treatment of facial deformities
4. Traumatology of the maxillofacial area
5. Preprosthetic surgery, implantology and related bone graft surgery for atrophic jaws

6. Laser treatment in oral pathological conditions
7. Craniofacial pediatric surgery in conjunction with neurosurgical department

## **Research Activities**

1. Comparative study of the treatment of tumors and pathological conditions of the oral cavity: CO<sub>2</sub> laser versus conventional surgical tools
2. Welding in oral cavity by CO<sub>2</sub> laser, clinical and histological investigation, Tel Aviv University authorized, 2000
3. The effect of beta-blockers on the hemodynamic effect of adrenaline given during local anesthesia (approved by Helsinki Committee, 2000)
4. Viscosupplementation: treatment for soft tissue damage of the TMJ (Helsinki Committee approved, 1998)
5. The effect of various lidocaine concentrations in local anesthesia on the hemodynamic effect of adrenaline (Helsinki Committee approved – 1998)
6. Biomedical and technical comparison of 4 different rigid titanium plating systems for mandibular reconstruction and fracture treatment on dogs. Two-center study – (Inselspital Bern, Switzerland and Rabin Medical Center - Helsinki Committee approved, 1999)
7. Ultrasonic Caries Detector (UCD) – Helsinki Committee approved, 2000
8. Presurgical Model Surgery: theory and devices, departmental study
9. Comparison of proliferation markers in glandular odontogenic cysts, low-grade mucoepidermoid carcinomas and radicular cysts with prominent mucous metaplasia
10. The palatal rotation flap in the closure of late oro-antral fistula
11. Platelet binding and growth factor adsorption to titanium implants after exposure to heparinized plasma – an experimental study in dogs – Helsinki Committee approved and Technion, Haifa.
12. Jetdent device clinical study: comparative study of Jetdent vs. conventional routine hygiene techniques in patients with gingivitis or periodontitis – (Helsinki Committee approved 2003)

## List of Publications

- I. Kaplan, G. Gal, S. Calderon, E. Carlson  
Large perimandibular swelling.  
J Oral & Maxillofacial Surg, 56:1134-1143, 1997
- M. Gross, A. Gavish, S. Calderon, E. Gazit  
Coronoid process as a cause of mandibular hypomobility.  
J Oral Rehab, 24(10):776-81, 1997
- J. Bishara, S. Calderon, E. Okron, I. Shevach, S. Maimon, S. Pitlik  
Coexisting extrapulmonary tuberculosis and malignancy.  
Am J Med, 105:443-6, 1998
- I. Kaffe, H. Naor, S. Calderon, A. Buchner  
Radiological and clinical features of aneurysmal bone cyst of the jaws.  
Dentomaxfac Radiol, 28:167-72, 1999
- I. Krauser , B. Eisenstein, M. Davidowits, R. Cleger, A. Tobar, S. Calderon  
Maxillomandibular brown tumor: a rare complication of chronic renal failure.  
Ped Nephrol, 14:499-501, 2000
- Y. Anavi, I. Kaplan, M. Feinmesser, S. Calderon  
Giant apocrine cystadenoma of the preauricular area.  
J Oral Maxillofac Surg, 59:463-7, 2001
- I. Kaplan, S. Calderon, A. Buchner, I. Kaffe  
The radiographic characteristics of calcifying epithelial odontogenic tumor.  
Dentomaxillofac Radiol, 30(1):22-28, 2001
- R. Silfan, A. Amie, D. Hauben, S. Calderon  
Effect of facial pressure garments for burn injury in adult patients after orthodontic treatment.  
J Burns, 27 (4):409-12, 2001
- G. Yosipovitch, I. Kaplan, S. Calderon, M. David, C. Yiong Huak, A. Weinberger  
Distribution of oral mucosal pH on the buccal, tongue, lip and palate: a study in healthy volunteers and patients with lichen planus, Behcet's disease and burning mouth syndrome.  
Acta Dermato-Venerol, 81:178-80, 2001
- R. Fridental, M. Fainaru, Y. Anavi, I. Beigel, R. Feinmesser  
The effect of neck dissection on human fat transport.  
Am J Otolaryngol, 22: 179-183, 2001

Y. Anavi, I. Kaplan, M. Feinmesser, S. Calderon  
Giant apocrine cystadenoma of the preauricular region.  
Am J Oral Maxillofac Surg, 59(4):463-7, 2001

A. Hirshberg, S. Calderon, I. Kaplan.  
Update review on prevention and early diagnosis in oral cancer.  
J Israel Dent Assoc 19, (3), 2002

D. Allon, I. Kaplan, R. Manor, S. Calderon.  
Carcinoma cuniculatum of the jaw: a rare variant of oral carcinoma – review of the literature.  
Oral Surg Oral Med Oral Pathol Oral Radiol Endodont 94 (5):601-8, 2002

Y. Anavi, I. Kaplan, S. Calderon  
Lateral Neck Mass.  
Oral Surg Oral Med Oral Pathol Oral Radiol Endodont, 94(5):536-9, 2002

Y. Anavi, I. Kaplan, M. Citir, S. Calderon  
Clear cell variant of calcifying epithelial odontogenic tumor: clinical and radiographic characteristics.  
Oral Surg Oral Med Oral Pathol Oral Radiol Endodont 95: March 2003 (in press)

R. Manor, Y. Anavi, I. Kaplan, S. Calderon  
Radiological features of glandular odontogenic cyst.  
Dentomaxfac Radiol May 2003 (in press)

K.Y. Oestreicher, I. Kaplan, S. Calderon  
Schwannoma of the inferior alveolar nerve.  
Arch Otolaryngol Head Neck Surg 2003 (in press)

### **Active Participation in Scientific Meetings**

S. Calderon, Invited Principal Lecturer  
Restriction in mouth opening: diagnosis and treatment.  
Fourth International Seminar of The Turkish Association of Oral and Maxillofacial Surgery  
Istanbul, Turkey, 1997

S. Calderon, Chairman and Organizer  
Second Bi-National Conference on Oral and Maxillofacial Surgery  
Tel-Aviv, Israel, February 1999

S. Calderon, Guest Speaker  
Structural adaptation prior and following surgical intervention for the correction of facial deformities.  
European Academy of Craniomandibular Disorders (EACD)  
Jerusalem, Israel, 1999

I. Kaplan, A. Hirshberg, S. Calderon, M. Littner  
Mast Cell Accumulation and Increased Vascularity in Human Pre-malignant and Malignant Tongue Lesions  
Annual Meeting of the Israeli Division of the International Association for Dental Research, Netanya, Israel, 2000

S. Calderon, Invited Guest Speaker  
An alternative technique in the reconstruction of large mandibular discontinuity defects.  
Third International Interdisciplinary Congress Skull Base and Craniofacial Surgery  
Interlaken, Switzerland, 2001

S. Calderon, Invited Guest Speaker  
Reconstruction of the mandible.  
Third Binational Israel-Turkey Congress of Oral and Maxillofacial Surgery  
Antalya, Turkey, 2001

S. Calderon, Invited Guest Speaker  
Management of the Alveolar defect with bone graft  
Management of the Hemifacial Microsomia patient  
International Symposium on Congenital Facial Deformities  
Limasol, Cyprus, 2001

Y. Anavi, R. Manor, S. Calderon  
Glandular Odontogenic Cyst: Radiological Features  
Third Binational Israeli –Turkey Congress of Oral & Maxillofacial Surgery,  
Antalya, Turkey 2001

R. Paz, S. Calderon  
Marfan Syndrome and Orofacial Manifestations –  
Third Binational Israeli –Turkey Congress of Oral & Maxillofacial Surgery,  
Antalya, Turkey, 2001

S. Calderon, Invited Faculty Speaker, G. Gal, R. Gleis  
Assessment and Treatment of 3-Dimensional Facial Deformities  
International Symposium on Orthognathic Surgery  
Udine, Italy, 2001

I. Kaplan, I. Ackerman, A. Hodak, S. Calderon  
Diffused and persistent oral ulceration as the first sign of occult carcinoma  
Annual Meeting of the Israeli Division of the International Association for Dental Research,  
Tel Aviv, Israel, 2002

S. Calderon, Invited Guest  
Annual Meeting of the American Association of Oral and Maxillofacial Surgery  
Chicago, U.S.A., 2002

Y. Anavi, R. Manor, G. Gal, I. Kaplan, S. Calderon  
I: Glandular Odontogenic Cyst – Radiologic features and treatment options.  
XVI Congress of the European Association for Cranio-Maxillofacial Surgery  
Munster, Germany, 2002

Anavi Y, Manor R, Gal G, Kaplan I, S. Calderon  
II: Palatal Rotation-Advancement Flaps for delayed repair oroantral fistula in 63 cases.  
XVI Congress of the European Association for Cranio-Maxillofacial Surgery  
Munster, Germany, 2002

## **Appointments**

### **S. Calderon, D.M.D.**

Israel Medical Association  
Israel Dental Association  
Israeli Society of Oral and Maxillofacial Surgery  
Educational Council of Oral and Maxillofacial Surgery Examining Board,  
Scientific Council, Israeli Dental Association  
International Association of Oral and Maxillofacial Surgeons  
American College of Oral and Maxillofacial Surgery  
American Association of Oral and Maxillofacial Surgeons  
American Cleft Palate – Craniofacial Association  
International Society for Laser Surgery and Medicine  
International Society of Medical Optics