



# V INTERNATIONAL CONGRESS

## SCIENTIFIC PROGRAM

INTERNATIONAL SOCIETY OF  
CRANIOFACIAL SURGERY

OAXACA, MEXICO, OCTOBER 24-26, 1993.

## SUNDAY, OCTOBER 24, 1993.

- 08:00 a.m. WELCOME AND INAUGURATION.  
Dr. Daniel Marchac.
- 08:05 a.m. Lic. Diodoro Carrasco Altamirano.  
Governor of the State of Oaxaca.
- 08:10 a.m. PRESIDENTIAL ADDRESS.  
Dr. Fernando Ortiz Monasterio
- 08:40 a.m. "TESSIER LECTURE".  
Principles in treatment planning of facial skeleton anomalies.  
Dr. Hugo L. Obwegeser.
- 09:30 a.m. Coffee break.

**Chairman: Dr. Ian Munro**

**Co-Chairman: Dr. J. Marsh**

### BASIC SCIENCE

- 10:00 a.m. (6 min.) Vestibular orientation of the skull by means of the CT-scan in craniofacial deformities.  
Ph. Pellerin, T.Piral and G.Fenard. (France)
- 10:07 a.m. (6 min.) Metopic synostosis: Quantitative assessment by CT-scans.  
Kant Lin, J.C.Posnick and P.Chen. (U.S.A.)
- 10:14 a.m. (8 min.) 3D MRI in craniosynostosis: Identification of previously unappreciated neural anomalies.  
J.L.Marsh, M. Koby and B.Lee. (U.S.A.)
- 10:23 a.m. (6 min) Accuracy and precision of cephalometrics landmarks determinations in high resolution CT-scans of the skull.  
B.F.M.L. van de Ven (The Netherlands).
- 10:29 a.m. Discussion.
- 10:39 a.m. (6 min.) CT guided stereolithography as a new tool in craniofacial surgery.  
Drs. H. Anderl, D. Zur Nedden, W. Mühlbauer and K. Twerdy. (Austria)

*BARTOCCO*

10:46 a.m.  
(6 min.)

Use in craniofacial surgery of skull replicas constructed using laser lithography.

D.Hirabayashi, A.Sakurai, K.Harii and Y.Sugawara. (Japan)

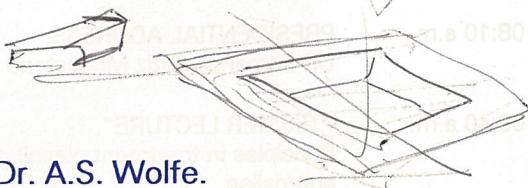
10:53 a.m.  
(6 min.)

Assessment of craniofacial growth in rats with early resection of zygomatic arch.

M. Martinez Elizondo, A. Fuente del Campo and L.Melloni.(Mexico)

11:00 a.m.

Discussion.



11:10 a.m.

Coffee break

**Chairman: Dr. A.S. Wolfe.**

**Co-Chairman: Dr. J.C. Posnick.**

## BASIC SCIENCE

11:30 a.m.  
(3 min.)

The critical role of the dura mater in maintaining patency of cranial sutures.

L.Opperman, R. Ogle and J. Persing. (U.S.A.)

11:34 a.m.  
(3 min.)

The importance of the dura in healing of cranial bone.

P.Craig Hobar, R. Wilson and J. Zerwekh. (U.S.A.)

11:38 a.m.  
(6 min.)

Histochemical evaluation of developing calvarial bone:  
Implications in complex craniosynostosis.

M.J.Burke, K.R. Winston and L. Ketch. (U.S.A.)

11:45 a.m.  
(3 min.)

Bone growth factors in human craniosynostosis.

S. D.Bresnick, Michael Cohen and S. Schendel. (U.S.A.)

11:49 a.m.  
(6 min.)

Potentiation of bone growth factor by coral and fibrinogen.

E. Arnaud, M.C. de Verneuil. (France)

*good*

11:55 a.m.

Discussion.

12:05 p.m.  
(3 min.)

How safe is the harvesting of cranial bone grafts?  
Analysis of 11.402 cases.

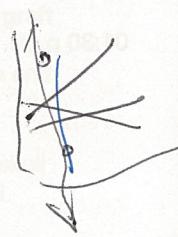
R. Kline and A.S. Wolfe. (U.S.A.)

12:09 p.m.  
(6 min.)

The influence of bony architecture upon membranous bone graft survival.

M. H. Newman. (U.S.A.)

- 12:16 p.m.  
(6 min.) Posttraumatic defects of the skull and forehead-Reconstruction by split calvarian grafts.  
H.G. Luhr. (Germany).
- 12:22 p.m. Discussion.
- Chairman: Dr. P. Manson.**  
**Co-Chairman: Dr H.G. Luhr.**  
**RIGID FIXATION**
- 12:33 p.m.  
(3 min.) The new Poly-L-lactide (PLLA) wire in craniectomy closures, an experimental study.  
P. Mäkelä, W. Serlo, T. Pohjonen, P. Törmälä and M. Kallioinen. (Finland)
- 12:37 p.m.  
(6 min.) A comparative study of the effects of biodegradable and titanium plating systems on cranial growth and morphology: Experimental study in Beagles.  
K.E. Salyer, J. Bardach, C.A. Squier, K.M. Kellin. (U.S.A.)
- 12:44 p.m.  
(6 min.) Experimental studies on biodegradable plates and screws: Memory relapse and degradations kinetics.  
H. W. Losken, A. Tschakaloff, M. Mooney, A. Losken, V. Open, T. Smith and A. Burrows. (U.S.A.)
- 12:51 p.m.  
(3 min.) Effects of resorbable coupling fixation oncraniofacial growth.  
B.L. Eppley and A.M. Sadove. (U.S.A.).
- 12:55 p.m.  
(6 min.) The effects of rigid fixation on craniofacial growth in the infant primate.  
M. Yaremchuk. (U.S.A.)
- 01:02 p.m.  
(6 min.) Fixation with absorbable material in reconstruction of infant with craniosynostosis.  
H.C. Vasconeze. (U.S.A.)
- 01:09 p.m.  
(3 min.) To plate or not plate: A multi-institution, four year experience with cranial micro-plating system.  
B.A. Toth, R.F. Keating and S. Schendel. (U.S.A.)
- 01:13 p.m.  
(6 min.) Skull reconstruction, rigid fixation and fiscal responsibility.  
I.R. Munro, J.A. Fearon and D.A. Bruce (U.S.A.)



- 01:19 p.m. Discussion.
- 01:30 p.m. Lunch.
- Chairman: Dr. D. Marchac.**  
**Co-Chairman: Dr. D. Ousterhout.**  
**CONGENITAL AND FLAPS.**
- 03:00 p.m.  
(8 min.) Automated craniofacial surgical design.  
C. Cutting, D. Khorramabadi, B. Haddad, F. Bookstein  
and J. McCarthy.(U.S.A.)
- 03:09 p.m.  
(6 min.) Extradural dead space following monobloc and facial bipartition osteotomies for reconstruction of craniofacial malformations.  
J.C. Posnick, M.M. Al-Qattan and D. Armstrong. (U.S.A.).
- 03:16 p.m.  
(6 min.) Getting to the base of Apert syndrome.  
I.W.R. Holten (Australia).
- 03:22 p.m. Discussion.
- 03:32 p.m.  
(8 min.) The paleontological origins of man and their influence on craniofacial morphology.  
M.M. Anous. (U.S.A.).
- 03:41 p.m.  
(6 min.) *Temporal relationship between changes in sleep state, intracranial pressure and upper airway obstruction in children with craniostenosis.*  
R. Hayward, S. Gonzalez, R. Lane, A. Mackersie,  
W. Harkness and B. Jones. (UK)
- 03:48 p.m.  
(3 min.) *The influence of intracranial pressure monitoring on the staged surgical management of craniostenosis.*  
B.M. Jones, R.D. Hayward, W. Harkness and D. Thompson.  
(U.K.).
- 03:52 p.m.  
(3 min.) *Upper airway changes in a rabbit model for craniofacial synostosis.*  
H. Arlis, P. Rosenberg, R.F. Ward and G. LaTrenta.(U.S.A.)
- 03:56 p.m.  
(3 min.) Cranioorbital skeletal deformities in patients with torticollis.  
M.B. Habal. (U.S.A.).
- 03:59 p.m. Discussion.

04:09 p.m.  
(6 min.)      Histological and radioisotopical analysis of the skull graft and osteofacial flap: Experimental study in rabbits.  
F.H.S. Parro, F. Viterbo, B. Viterbo, A.Ueda F. Pinea and S.A. Zanini. (Brazil).

04:16 p.m.  
(6 min.)      The effects of temporalis muscle manipulation on skull morphology and craniofacial growth: A rabbit model.  
M. Brennan and O. Antonyshyn. (Canada).

04:23 p.m.  
(3 min.)      The osteoneogenic potential of the temporalis periosteal flap.  
R. Rival, O. Antonyshyn, J.Phillips and C.Y. Pang. (Canada).

04:27 p.m.  
(3 min.)      Occipital flap with extended pedicle.  
P. Dogliotti and R. Bennun. (Argentina).

04:31 p.m.  
(3 min.)      Tubed free flap for coverage of craniofacial defects.  
E. Auclair, D. Marchac, M. Prevot, D. Renier and A. P. Khan. (France).

04:34 p.m.      Discussion.

04:44 p.m.      Coffee Break.

**Chairman: Dr. L. Whitaker.**

**Co-Chairman: Dr. B. Jones.**

## CONGENITAL

05:10 p.m.  
(3 min.)      A new technique for prevention of burr hole defects in craniotomy.  
J.F. Hönig. (Germany).

05:14 p.m.  
(8 min.)      The autodynamic remolding of the skull following early surgery.  
W. Muhlbauer, H. Anderl, J. Fairley and F. Hoppner. (Germany)

05:23 p.m.  
(6 min.)      Treatment of positional Plagiocephaly utilizing the cranial remodeling orthosis.  
(D.O.C.). C.E.Ripley, J.Pomato, S.P. Beals, K.H. Manwaring, E.F. Joganic and D. Moss. (U.S.A.)

05:30 p.m.  
(6 min.)

Analysis and treatment of severe trigonocephaly.  
R. J. Havlik, D. Azurin, S. P. Bartlett and L. Whitaker.  
(U.S.A.)

05:37 p.m.  
(6 min.)

Early correction of skull deformity in scaphocephaly.  
R. Roddi, J.M. Vaandrager and J.C. Van der Mullen.  
(The Netherlands).

05:43 p.m.

Discussion.

05:53 p.m.  
(6 min.)

Accurate fronto-orbital reconstruction without significant  
imaging artifact.  
P.K. Sullivan and A.Rozelle. (U.S.A.)

06:00 p.m.  
(6 min.)

Usefulness of floating sagittal bar technique in surgical  
correction of craniosynostosis.  
H. Kamiishi, N. Isogai and M. Kosaka. (Japan)

06:07 p.m.  
(8 min.)

Timing, sequence and type of surgery for complex  
craniosynostosis.  
L. Whitaker, S. Bartlett and R.Havlik.(U.S.A.)

06:16 p.m.  
(3 min.)

Recurrent craniosynostosis.  
J.H. Goldin, M.J.C. Wake and A.D. Hockley. (UK).

06:20 p.m.  
(6 min.)

Recurrent craniosynostosis: When and why?.  
D. Renier, G. Saint Rose and D. Marchac. (France).

06:26 p.m.

Discussion.

06:36 p.m.

Adjourn.

MONDAY, OCTOBER 25, 1993.

Chairman: Dr. K. Salyer.

Co-Chairman: Dr. H. Anderl.

CONGENITAL

08:00 a.m.  
(6 min.) Skeletal analysis of craniofacial asymmetries on accurate replicas of the skull.

A. Sakurai, S. Hirabayashi, Y. Sugawa, K. Harii, T. Kihara, N. Shigemura, K. Furahata. (Japan).

08:07 a.m.  
(3 min.) Symptomatic improvement in synostosis conditions following forehead advancement.  
D. K. Ousterhout. (U.S.A.) Forehead.

08:11 a.m.  
(6 min.) Crouzon syndrome: Quantitative assessment of presenting deformity and surgical results based on CT scans.  
J.C. Posnick, K. Ling, B.J. Jhawar, and D. Armstrong.  
(U.S.A.).

08:18 a.m.  
(8 min.) — *Debatable* —  
A treatment plan for Crouzon's syndrome.  
C. Lauritzen, P. Sahling and H. Stephensen. (Sweden)

*Nice  
Talker*

08:27 a.m.  
(6 min.) New dimensions in Crouzon syndrome.  
T.W. Proudman, A.H. Abbot, D.J. Netherway and D.J. David. (Australia).

08:33 a.m. Discussion.

08:43 a.m.  
(8 min.) Functional and morphological outcome in 57 Apert's Syndrome.  
D. Marchac and D. Renier. (France).

*What is  
not treated*

08:52 a.m.  
(6 min.) Twenty year experience with early surgery for cranio-synostosis: II. Pansynostosis and craniofacial synostosis syndromes - Results and unsolved problems.  
J.G. McCarthy, S.B. Glasberg, C. B. Cutting. (U.S.A.)

08:59 a.m.  
(6 min.) Experience of secondary craniofacial surgery.  
T.T. Akizuki and K. Ohmori. (Japan).

09:06 a.m.  
(3 min.) Complications in the bilateral orbitofrontal advancement.  
R. Salvan, M.J. Ochotorena, F. Cordobes, M.J. Muñoz and J. Esparza. (Spain).

09:09 a.m. Discussion.

**Chairman: Dr.J. Mulliken.**  
**Co-Chairman: Dr. J. Van der Meulen.**  
**CONGENITAL AND TUMORS**

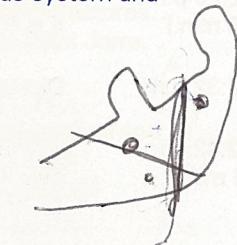
- 09:20 a.m. (3 min.) Proteus syndrome - A newly recognized hamartomatous syndrome with significant craniofacial dysmorphology. C. Dufresne. (U.S.A.)
- 09:24 a.m. (3 min.) Encephalocele morphogenetic explanation. J.M.Vaandrager, C. Verwey-Keers, J.C. Van der Meulen and E.W. Hoving (The Netherlands).
- 09:28 a.m. (8 min.) An orbital venous approach to the cavernous sinus. H. Spinelli, S. Falcone and G. Lee. (U.S.A.)
- 09:37 a.m. (3 min.) Long term follow-up of malignant skull base tumors prognosis and prevention of complications. R.J. Smith and I.T. Jackson (U. S. A.). *Why delay reopn*
- 09:40 a.m. Discussion.
- 09:50 a.m. (6 min.) Resection with cardiac bypass for facial vascular malformations. M.L. Lessard, A.R.C. Dobell, H.B.Williams, J. Raymond, R. Tabah. (Canada)
- 09:57 a.m. (3 min.) Reconstruction of congenital sphenoid wing absence. Yu-Ray Chen. (Taiwan)
- 10:01 a.m. (6 min.) Skull base reconstruction after tumors resection. S. Moreira da Costa. (Brazil)
- 10:08 a.m. (6 min.) Some challenges related to the surgery of the base of the skull. O. Contreras, M. Gonzalez and R. Villalobos (Chile)
- 10:14 a.m. Discussion.
- 10:24 a.m. (3 min.) Combined treatment of craniofacial tumors by excision and brachytherapy. M.R. Wexler, Z. Wechsler, A.Neuman, A. Weinberg, F. Umansky and J. Elidan. (Israel).

- 10:28 a.m.  
(6 min.) Classification of transfacial approaches in treatment of tumors of the anterior skull base and clivus.  
S.P.Beals, E .F. Joganic, R.F. Spetzler, M.G.Hamilton and J.M.Herman. (U.S.A.)
- 10:35 a.m.  
(6 min.) Derome approach modification.  
E. Valencia and M.A. Arraez. (Spain).
- 10:42 a.m.  
(6 min.) The facial split without anosmia: A new technique in cranial base.  
H. A. Fearon and D.A. Bruce. (U.S.A.).

- 10:49 a.m.  
(6 min.) Posterior anomalies of the central nervous system and skeleton in craniofacial dysostoses.  
M.Poole and M.Briggs. (UK).

10:55 a.m. Discussion.

11:05 a.m. Coffee Break.



**Chairman: Dr. J.G. McCarthy.**

**Co-Chairman: Dr. C. Raposo de Amaral**

**MICROSOMIA, FACIAL CLEFTS AND BONE SUBSTITUTES**

- 11:30 a.m.  
(3 min.) Mandibular lengthening in the canine using an intraoral device.  
D.S. Staffenberg, R.J. Wood and J.G. McCarthy. (U.S.A.)

- 11:34 a.m.  
(3 min.) Quantifying mandibular lengthening by distraction for airway obstruction in Treacher Collins syndrome.  
M.H. Moore, G. Guzman-Stein, T.W. Proudman and A.H. Abbott. (Australia)

- 11:38 a.m.  
(6 min) Extended indications for mandibular distraction:  
Unilateral, bilateral, and bidirectional.  
Molina, F. and Ortiz Monasterio, F. (Mexico)

- 11:45 a.m.  
(6 min.) Craniofacial microsomia. Mandibular reconstruction with vascularized osteoperiosteal flap in early childhood.  
P. Iwanyk and L.A. Margaride (Argentina)

11:51 a.m. Discussion.

- 12:01 p.m.  
(3 min.) Craniofacial clefts with an associated lipoma.  
B.J. Van R. Zeeman. (South Africa).

12:05 p.m. (6 min.)	The extended SMAS for malar soft tissue augmentation in Treacher Collins syndrome. L.V. Carson and R.C. Mixter. (U.S.A.)
12:12 p.m. (6 min.)	Minimization of scars in orbito-facial clefting correction. J.C.H. van der Meulen, R. Roddi and J.M. Vaandrager. (The Netherlands).
12:19 p.m. (6 min.)	Demineralized bone allografts, hydroxyapatite and alternative bone figures in cranial bone defects. F.A. Papay. (U.S.A.).
12:26 p.m. (6 min.)	Perforated demineralized bone- A 3 year update. K.E. Salyer, K. Hopkins and R. G. Taylor. (U.S.A.)
12:32 p.m.	Discussion.
12:42 p.m. (6 min.)	The impact of rapid demineralization on bone bending strength: A potential clinical technique. D. Azurin, R. J. Havlik, L.A. Whitaker and S. Bartlett. (U.S.A.)
12:49 p.m. (3 min.)	Cyanoacrylate fixation of the craniofacial skeleton: An expe- rimental study. M.T.J. Amarante, M. Constantinescu, D. O 'Connor and M. Yaremchuk. (U.S.A.)
12:53 p.m. (6 min.)	Tricalcium phosphate and osteogenin: A bioactive onlay bone graft substitute. A.S. Breitbart, D.A. Staffenberg, P.M. Glat, N. Cunningham, A.H. Reddi, J. Ricci, G. Steiner and C.T. Thorne. (U.S.A.)
01:00 p.m. (6 min.)	Soft tissue versus bone in the aesthetic aspect of the face. C. Raposo de Amaral. (Brazil)
01:06 p.m.	Discussion.
01:16 p.m.	Lunch.
<b>Chairman: Dr. H. Kawamoto.</b>	
<b>Co-Chairman: Dr. C. Lauritzen.</b>	
<b>ORBIT AND TRAUMA.</b>	
02:30 p.m. (3 min.)	Versatility of living bone grafting in orbital reconstruction. S. Kobayashi, K. Ohmori, Y. Sakai and T. Akizuki. (Japan)

- 02:34 p.m.  
(6 min.)      The concept of the orbital-globe relationship in craniofacial surgery.  
J.B. Mulliken, D.E. Altobelli, and S.L. Godwin. (U.S.A.)
- 02:41 p.m.  
(6 min.)      Correction of vertical orbital dystopia.  
J. Gross and S.A. Wolfe. (U.S.A.).
- 02:47 p.m.  
(6 min.)      Surgical reconstruction of the orbit after resection of skull-base tumors.  
H.P. Howaldt and A. Frydrych. (Germany).
- 02:53 p.m.      Discussion.
- 03:03 p.m.  
(6 min.)      Dramatic late complications of craniofacial fractures.  
E.S. Dejerine, L.C. Merville, P.Bui, G.de Saint Jorre. (France)
- 03:10 p.m.  
(6 min.)      Frontal sinus fractures- A comparison of medical and surgical treatment options.  
N.Clark, C. Gordon, S.Slezak, B. Robertson and P. Manson. (U.S.A.)
- 03:17 p.m.  
(6 min.)      The clinical presentation and surgical management of growing craniofacial fractures in the pediatric patient.  
S.P. Bartlett, R.Havlik and L. Sutton. (U.S.A.).
- 03:23 p.m.      Discussion.
- 03:33 p.m.      Visit to the archeological area of Monte Alban.

TUESDAY, OCTOBER 26, 1993.

Chairman: Dr. W. Mühlbauer.

Co-Chairman: Dr. W. Lashken.

CONGENITAL

- 08:00 a.m. Distraction osteogenesis of the craniofacial skeleton:  
(6 min.) A 1993 overview.  
J.G. McCarthy, A. Breitbart, S. Glasberg, A. Gosain, B,  
Grayson, N. Karp, J. Schreiber, D. Staffenberg, C. Thorne,  
and R. Wood.  
(U.S.A.).
- 08:07 a.m. The Saethre-Chotzen syndrome.  
(3 min.) P. Sahlin and C. Lauritzen. (Sweden)
- 08:11 a.m. Anthropometry analysis of the phenotypic spectrum in  
(3 min.) Saethre-Chotzen syndrome.  
B.L. Padwa. (U.S.A.)
- 08:15 a.m. A newly recognized type of autosomal dominant  
(6 min.) craniosynostosis and assignment of a genetic locus to  
the long arm of chromosome 5.  
J.B. Mulliken (U.S.A.)
- 08:22 a.m. Holoprosencephaly revisited.  
(6 min.) H.K. Kawamoto, D.L. Elias and L.F. Wilson. (U.S.A.).
- 08:28 a.m. Discussion.
- 08:38 a.m. Cranial growth following unilateral coronal suturectomy  
(3 min.) in cats.  
D. Marshall and S. A. Schendel. (U.S.A.)
- 08:42 a.m. Fronto-orbital fibrous dysplasia.  
(3 min.) R. Villalobos, A. Zuleta and S. Valenzuela. (Chile)
- 08:46 a.m. Frontonasal and craniofrontonasal dysplasia: Preoperative  
(3 min.) quantitative description of the cranio-orbito-zygomatic  
region based on computed and conventional  
tomography.  
S. Moffat, J. Posnick, G. Pron, D. Armstrong. (U.S.A.)
- 08:50 a.m. Craniofrontonasal dysplasia: A phenotypic review.  
(6 min.) D. Saavedra Ontiveros. (Mexico)

- 08:57 a.m.  
(6 min.)      Strabismus and nystagmus in craniofrontonasal dysplasia.  
E. Limon de Brown and M. Stark Feldman. (Mexico).
- 09:04 a.m.  
(3 min.)      A prospective study of the presentation and outcome of strabismus and head posture in patients with plagiocephaly.  
A.K. Gosain, M. Steele, J.G. McCarthy and C.H. Thorne. (U.S.A.)
- 12:18 p.m.  
(6 min.)      Discussion.
- 12:20 p.m.  
(6 min.)      **Chairman: Dr. T. Caronni.**  
**Co-Chairman: Dr. O. Contreras.**  
**VIDEO**
- 12:26 p.m.  
9:18 a.m.  
(10 min.)      The Laser surface scanner for facial anthropometry.  
D.B. Baca. (U.S.A.).
- 9:28 a.m.  
(10 min.)      Craniofacial surgical simulation and intraoperative confirmation.  
C. Vander Kolk, J. Zinreich, B. Carson and P. Manson. (U.S.A.).
- 09:38 a.m.  
(10 min.)      Versatility of nasal monobloc osteotomy.  
G.C. Lovaas. (U.S.A.).
- 09:48 a.m.  
(10 min.)      Transfacial approach to a basal encephalocele.  
R.C. Mixter and L.V. Carson. (U.S.A.).
- 09:58 a.m.  
(10 min.)      Resection and reconstruction of extensive frontal orbital fibrous dysplasia.  
S.P. Hardy, J. Squires, L. Morales Jr., M. Walker and R. Anderson. (U.S.A.).
- 10:08 a.m.      Discussion.
- 10:23 a.m.      Coffee Break.

**Chairman: Dr. D. Ousterhout.**  
**Co-Chairman: Dr. A. Fuente del Campo.**  
**TUMORS AND MIDFACE.**

- 10:46 a.m. (6 min.) Orbital hypertelorism: definitions, pathogenesis, treatment and results of 100 cases 1975-1993.  
D.J. David. (Australia).
- 10:53 a.m. (3 min.) Medial canthopexy: An experimental biomechanical study.  
A.B. Dagum and O. Antonyshyn. (Canada).
- 10:57 a.m. (6 min.) Midface advancement in the canine without osteotomies.  
D.A. Staffenberg, R.J. Wood, S.B. Glasberg and J.G. McCarthy. (U.S.A.).
- 11:04 a.m. (6 min.) Midface advancement by gradual distraction: A followup study.  
A. Rachmiel, I.T. Jackson, L. Clayman. (Israel).
- 11:10 a.m. Discussion.
- 11:20 a.m. (3 min.) Postoperative movement of rigidly fixed midface osteotomies.  
R.J. Wood, B.H. Grayson, J. G. McCarthy, C.B. Cutting, and C.H. Thorne. (U.S.A.).
- 11:24 a.m. (6 min.) Lefort III Midfacial advancement in cleft palate patients.  
A.D. Denny. (U.S.A.).
- 11:31 a.m. (6 min.) Facial sensibility in cleft and non-cleft adolescents one year after undergoing Lefort I osteotomy.  
J.C. Posnick, M.M. Al-Qattan and G. Pron. (U.S.A.).
- 11:38 a.m. (3 min.) Surgical treatment for prominent gonial angle- Its procedure and a new instrument.  
S. Kyutoku, A. Yanagida , K. Kusumoto and Y. Ogawa. (Japan).
- 11:41 a.m. Discussion.
- 11:51 a.m. (6 min.) Decision-making in total aesthetic facial contouring.  
L. Whitaker. (U.S.A.).

- 11:58 a.m.  
(8 min.) Nasal preservation in cranio-facial surgery.  
A. Fuente del Campo. (Mexico)
- 12:07 p.m.  
(8 min.) Lengthening the nose: A manoeuvre from craniofacial surgery.  
S.A. Wolfe. (U.S.A.).
- 12:16 p.m.  
(3 min.) Repairing facial bone fractures using a new navigation system.  
Y.Sakai, E. Ohkubo, E. Watanabe and K.Ohmori.(Japan).
- 12:20 p.m.  
(6 min.) Complications of rigid fixation in infants and small children.  
I.R. Munro, J.A. Fearon and D.A. Bruce. (U.S.A.)
- 12:26 p.m. Discussion.
- 12:36 p.m. Adjourn.
- 13:00 p.m. BUSINESS MEETING.  
Active members only.

## N O T A S:

			10:45 a.m. (8 min.)
10:46 a.m.	Spoke with Dr. G. about the patient's condition. Dr. G. advised me to take the patient to the hospital. I told Dr. G. that I would do so as soon as possible.	10:46 a.m. (8 min.)	10:46 a.m. (8 min.)
10:53 a.m.	Arrived at the hospital. Dr. G. was there. Dr. G. examined the patient and found no abnormalities. Dr. G. advised me to take the patient to the hospital. I told Dr. G. that I would do so as soon as possible.	10:53 a.m. (3 min.)	10:53 a.m. (3 min.)
10:57 a.m.	Arrived at the hospital. Dr. G. was there. Dr. G. examined the patient and found no abnormalities. Dr. G. advised me to take the patient to the hospital. I told Dr. G. that I would do so as soon as possible.	10:57 a.m. (6 min.)	10:57 a.m. (6 min.)
11:00 a.m.	Arrived at the hospital. Dr. G. was there. Dr. G. examined the patient and found no abnormalities. Dr. G. advised me to take the patient to the hospital. I told Dr. G. that I would do so as soon as possible.	11:00 a.m. (10 min.)	11:00 a.m. (10 min.)

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