



Stephen Schendel

Professor of Surgery (Plastic and Reconstructive Surgery) at the Stanford University Medical Center, Emeritus

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty - University Medical Line, Surgery

ADMINISTRATIVE APPOINTMENTS

- Head Division of Plastic Surgery, Stanford university medical School, (1992-2002)
- Chairman, Department of Functional Restoration, Stanford University Medical School, (1994-2001)
- Chief Pediatric Surgery, LPCH, (1997-2005)
- Director Craniofacial Anomalies Center, LPCH, (1992-2007)
- Co-Director, Stanford-NASA National Biocomputation Center, Stanford University, (1997-2007)

HONORS AND AWARDS

- Fulbright Fellow, France, Fulbright Foundation (1980)
- Distinguished Alumnus, St Olaf College (1992)
- Chauteaubriand Fellowship, French Government (1987)

LINKS

- Dr. Schendel Plastic Surgery: <https://schendelmd.com/Dr-Stephen-Schendel>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Surgical correction and the study of growth and development of craniomaxillofacial anomalies and deformities.

1. Histochemical Analysis of Facial Muscles.
2. Cranial Sutural Manipulation.
3. Stability of Mandibular and Maxillary Surgery
4. Growth Factors in Infant Cranial Sutures.
5. Virtual Surgery
6. 3-D Biocomputation 4. Osteodistracton

Publications

PUBLICATIONS

- **Autologous Adipose-Derived Tissue Matrix Part II: Implantation Biology** *AESTHETIC SURGERY JOURNAL*
Schendel, S. A.
2017; 37 (9): 1069–74
- **Autologous Adipose-Derived Tissue Matrix Part I: Biologic Characteristics** *AESTHETIC SURGERY JOURNAL*
Schendel, S. A.
2017; 37 (9): 1062–68
- **Foundations: a reflection on the life of William H. Bell IN MEMORIAM** *ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY*
Schendel, S. A.
2016; 122 (4): 375
- **Reply: Enriched Autologous Facial Fat Grafts in Aesthetic Surgery: 3D Volumetric Results** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Schendel, S. A.
2016; 137 (3): 639E
- **Computer simulation in the daily practice of orthognathic surgery** *INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY*
Schendel, S. A.
2015; 44 (12): 1451-1456
- **Enriched Autologous Facial Fat Grafts in Aesthetic Surgery: 3D Volumetric Results** *AESTHETIC SURGERY JOURNAL*
Schendel, S. A.
2015; 35 (8): 913-919
- **Authors' response.** *American journal of orthodontics and dentofacial orthopedics*
Schendel, S. A., Jacobson, R. L.
2015; 147 (2): 159-160
- **Three-dimensional upper-airway changes with maxillomandibular advancement for obstructive sleep apnea treatment** *AMERICAN JOURNAL OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS*
Schendel, S. A., Broujerdi, J. A., Jacobson, R. L.
2014; 146 (3): 385-393
- **Airway changes in obstructive sleep apnoea patients associated with a supine versus an upright position examined using cone beam computed tomography** *JOURNAL OF LARYNGOLOGY AND OTOTOLOGY*
Camacho, M., Capasso, R., Schendel, S.
2014; 128 (9): 824-830
- **Combined orthognathic distraction procedure: le fort I maxillary osteotomy and mandibular curvilinear distraction osteogenesis. A new technique for craniofacial management.** *Plastic and reconstructive surgery*
Schendel, S. A., Hazan-Molina, H., Aizenbud, D.
2014; 133 (4): 874-877
- **Surgical Treatment of Obstructive Sleep Apnea** *SLEEP MEDICINE CLINICS*
Camacho, M., Jacobson, R. L., Schendel, S. A.
2013; 8 (4): 495–503
- **3-Dimensional Facial Simulation in Orthognathic Surgery: Is It Accurate?** *JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY*
Schendel, S. A., Jacobson, R., Khalessi, S.
2013; 71 (8): 1406-1414
- **Using bioabsorbable fixation systems in the treatment of pediatric skull deformities leads to good outcomes and low morbidity** *CHILDS NERVOUS SYSTEM*
Gephart, M. G., Woodard, J. I., Arrigo, R. T., Lorenz, H. P., Schendel, S. A., Edwards, M. S., Guzman, R.
2013; 29 (2): 297-301

- **Preface. *Oral and maxillofacial surgery clinics of North America***
Schendel, S. A.
2012; 24 (4): ix-?
- **Treating obstructive sleep apnea: The case for surgery** *AMERICAN JOURNAL OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS*
Jacobson, R. L., Schendel, S. A.
2012; 142 (4): 435-42
- **Airway Growth and Development: A Computerized 3-Dimensional Analysis** *JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY*
Schendel, S. A., Jacobson, R., Khalessi, S.
2012; 70 (9): 2174-2183
- **The future in craniofacial surgery: computer-assisted planning.** *Rambam Maimonides medical journal*
Schendel, S. A., Hazan-Molina, H., Rachmiel, A., Aizenbud, D.
2012; 3 (2)
- **The Future in Craniofacial Surgery: Computer-Assisted Planning** *RAMBAM MAIMONIDES MEDICAL JOURNAL*
Schendel, S. A., Hazan-Molina, H., Rachmiel, D. D., Aizenbud, D. D.
2012; 3 (2)
- **Treatment of Maxillomandibular Deformities With Internal Curvilinear Distraction** *ANNALS OF PLASTIC SURGERY*
Schendel, S. A.
2011; 67 (6): S1-S9
- **Image fusion in preoperative planning.** *Facial plastic surgery clinics of North America*
Schendel, S. A., Duncan, K. S., Lane, C.
2011; 19 (4): 577-?
- **Maxillary, Mandibular, and Chin Advancement: Treatment Planning Based on, Airway Anatomy in Obstructive Sheep Apnea** *JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY*
Schendel, S., Powell, N., Jacobson, R.
2011; 69 (3): 663-676
- **Fronto-orbital Advancement Using an En Bloc Frontal Bone Craniectomy** *NEUROSURGERY*
Guzman, R., Looby, J. F., Schendel, S. A., Edwards, M. S.
2011; 68 (3): 68-74
- **Fronto-orbital advancement using an en bloc frontal bone craniectomy.** *Neurosurgery*
Guzman, R., Looby, J. F., Schendel, S. A., Edwards, M. S.
2011; 68 (1): 68-74
- **Fronto-orbital Advancement Using an En Bloc Frontal Bone Craniectomy** *NEUROSURGERY*
Guzman, R., Looby, J. F., Schendel, S. A., Edwards, M. S.
2011; 68
- **Reliability of panoramic radiographs for the assessment of mandibular elongation after distraction osteogenesis procedures** *ORTHODONTICS & CRANIOFACIAL RESEARCH*
Hazan-Molina, H., Molina-Hazan, V., Schendel, S. A., Aizenbud, D.
2011; 14 (1): 25-32
- **Midfacial trauma and facial growth: A longitudinal case study of monozygotic twins** *AMERICAN JOURNAL OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS*
Aizenbud, D., Morrill, L. R., Schendel, S. A.
2010; 138 (5): 641-648
- **Curvilinear Mandibular Distraction Results and Long-Term Stability Effects in a Group of 40 Patients** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Aizenbud, D., Hazan-Molina, H., Thimmappa, B., Hopkins, E. M., Schendel, S. A.
2010; 125 (6): 1771-1780

- **Sagittal Split Genioplasty: A New Technique** *JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY*
Schendel, S. A.
2010; 68 (4): 931-934
- **Automated 3-Dimensional Airway Analysis From Cone-Beam Computed Tomography Data** *JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY*
Schendel, S. A., Hatcher, D.
2010; 68 (3): 696-701
- **Mandibular Internal Curvilinear Distraction - Long Term Follow-Up** *20th Congress of the European-Association-for-Cranio-Maxillo-Facial-Surgery (EACMFS)*
Aizenbud, D., Hazan-Molina, H., Thimmappa, B., HOPKINS, E. M., Molina-Hazan, V., Schendel, S. A.
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- **CURVILINEAR DISTRACTION** *JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY*
Schendel, S. A.
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- **Monozygotic Twin Sister as a Template for Facial Trauma Reconstruction** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Aizenbud, D., Morrill, L. R., Schendel, S. A.
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Schendel, S. A., Jacobson, R.
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- **Airway Analysis: With Bilateral Distraction of the Infant Mandible** *JOURNAL OF CRANIOFACIAL SURGERY*
Looby, J. F., Schendel, S. A., Lorenz, H. P., Hopkins, E. M., Aizenbud, D.
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- **Magnesium-Based Bone Cement and Bone Void Filler: Preliminary Experimental Studies** *JOURNAL OF CRANIOFACIAL SURGERY*
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- **A Web-Based, Integrated Simulation System for Craniofacial Surgical Planning** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Schendel, S. A., Montgomery, K.
2009; 123 (3): 1099-1106
- **Quantification appraisal of mandibular internal curvilinear distraction** *13th International Congress of the International-Society-of-Craniofacial-Surgery / Paris Distraction Symposium*
Aizenbud, D., Hazan-Molina, H., Thimmappa, B., HOPKINS, E. M., Molina-Hazan, V., Schendel, S. A.
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- **Internal maxillary distraction with a new bimalar device** *62nd Annual Meeting of the American-Cleft-Palate-Craniofacial-Association*
Kahn, D. M., Broujerdi, J., Schendel, S. A.
W B SAUNDERS CO-ELSEVIER INC.2008: 675-83
- **Computer simulation of curvilinear mandibular distraction: Accuracy and predictability** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Scolozzi, P., Link, D. W., Schendel, S. A.
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- **Preoperative osseous dysmorphism in unilateral complete cleft lip and palate** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Schendel, S. A.
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- **Infant mandibular distraction with an internal curvilinear device** *JOURNAL OF CRANIOFACIAL SURGERY*
Miller, J. J., Kahn, D., Lorenz, H. P., Schendel, S. A.
2007; 18 (6): 1403-1407
- **Idiopathic condylar resorption and micrognathia: The case for distraction osteogenesis** *JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY*

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- Schendel, S. A., Tulasne, J., Linck, D. W.
2007; 65 (8): 1610-1616
- **Surgical orthognathic management of sleep apnea** *JOURNAL OF CRANIOFACIAL SURGERY*
Schendel, S. A., Powell, N. B.
2007; 18 (4): 902-911
 - **Flash Pulmonary Edema: An Unusual Presentation during Orthognathic Surgery** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Broujerdi, J. A., Keifa, E., Nekhendzy, V., Schendel, S. A.
2007; 119 (6): 133E-137E
 - **Invited discussion: Surgical treatment of Treacher Collins syndrome** *ANNALS OF PLASTIC SURGERY*
Miller, J. J., Schendel, S. A.
2006; 56 (5): 555-556
 - **Multi-level internal midface distraction**
Schendel, S.
edited by Diner, P. A., Arnaud, E., Vazquez, M. P.
MEDIMOND S R L.2006: 157-60
 - **Increasing accuracy and predictability in distraction osteogenesis**
Schendel, S.
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 - **A surgical simulator for planning and performing repair of cleft lips** *JOURNAL OF CRANIO-MAXILLOFACIAL SURGERY*
Schendel, S., Montgomery, K., Sorokin, A., Lionetti, G.
2005; 33 (4): 223-228
 - **User interface paradigms for patient-specific surgical planning: lessons learned over a decade of research** *COMPUTERIZED MEDICAL IMAGING AND GRAPHICS*
Montgomery, K., Stephanides, M., Schendel, S., Ross, M.
2005; 29 (2-3): 203-222
 - **Maxillary distraction with a new intra-oral face bow device** *11th International Congress of the International-Society-of-Craniofacial-Surgery*
Abdollahzadeh, A. J., Kahn, D., Schendel, S. A.
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 - **Multi-level internal midface distraction**
Schendel, S. A., Abdollahzadeh, A.
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 - **Magnetic resonance imaging and surgical repair of cleft palate in a four-week-old canine (Canis familiaris): An animal model for cleft palate repair** *CONTEMPORARY TOPICS IN LABORATORY ANIMAL SCIENCE*
Tolwani, R. J., Hagan, C. E., Runstadler, J. A., Lyons, H., Green, V. L., Bouley, D. M., Rodriguez, L. F., Schendel, S. A., Moseley, M. E., Daunt, D. A., Otto, G., CORK, L. C.
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 - **Mandibular distraction osteogenesis by sagittal split osteotomy and intraoral curvilinear distraction** *JOURNAL OF CRANIOFACIAL SURGERY*
Schendel, S. A., Linck, D. W.
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 - **A surgical simulator for cleft lip planning and repair** *11th Annual Medicine Meets Virtual Reality Conference*
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- **Virtual reality based surgical assistance and training system for long duration space missions** *Conference on Medicine Meets Virtual Reality 2001*
Montgomery, K., Thonier, G., Stephanides, M., Schendel, S.
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- **Biomechanics of mandibular distraction osteogenesis** *3rd International Congress of Craniofacial and Maxillofacial Distraction*
Safa, B., Kahn, D., Lorenz, H. P., Heegaard, J. H., Kosek, J., Schendel, S. A.
MEDIMOND S R L.2001: 27–32
- **A preliminary report on the use of semi-buried curvilinear distractor in the human mandible** *3rd International Congress of Craniofacial and Maxillofacial Distraction*
Schendel, S., Kahn, D., Linck, D., Hopkins, E.
MEDIMOND S R L.2001: 255–258
- **A novel semi-buried curvilinear osteodistractor for the mandible** *3rd International Congress of Craniofacial and Maxillofacial Distraction*
Schendel, S. A., Safa, B., Kahn, D.
MEDIMOND S R L.2001: 287–289
- **Unilateral cleft lip repair - State of the art** *CLEFT PALATE-CRANIOFACIAL JOURNAL*
Schendel, S. A.
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- **Development and application of a virtual environment for reconstructive surgery.** *Computer aided surgery*
Montgomery, K., Stephanides, M., Schendel, S.
2000; 5 (2): 90-97
- **A single surgeon's experience with the Delaire palatoplasty** *48th Annual Meeting of the California-Society-of-Plastic-Surgeons*
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Safa, B., Girod, S., Lorenz, H. P., Steininger, H., Schendel, S.
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- **Surgical intervention: A role in growth modification**
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Bresnick, S., Schendel, S.
1998; 9 (1): 92-95
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Schendel, S. A., Mason, M. E.
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- **Preliminary report: A ceramic containing crosslinked collagen as a new cranial onlay and inlay material** *ANNALS OF PLASTIC SURGERY*
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- **A mathematical model for mandibular distraction osteogenesis** *JOURNAL OF CRANIOFACIAL SURGERY*
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- **Cranial base in newborns with complete cleft lip and palate: Radiographic study** *CLEFT PALATE-CRANIOFACIAL JOURNAL*
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- **Low levels of fibroblastic growth factor receptor 2 activity correlates with Crouzon's disease** *6th International Congress of the International-Society-of-Cranio-Facial-Surgery*
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Schendel, S. A., Carlotti, A. E.
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- **PATHOPHYSIOLOGY OF CLEFT-LIP MUSCLES FOLLOWING THE INITIAL SURGICAL REPAIR** *PLASTIC AND RECONSTRUCTIVE SURGERY*
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- **SPORTS-RELATED NASAL INJURIES** *PHYSICIAN AND SPORTSMEDICINE*
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Schendel, S. A., Pearl, R. M.
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Schendel, S.
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- **HAWAIIAN HEAD MOLDING** *PLASTIC AND RECONSTRUCTIVE SURGERY*
SCHENDEL, S. A.
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- **FAMILIAL OSTEODYSPLASIA** *HEAD & NECK SURGERY*
Schendel, S. A., Delaire, J.
1982; 4 (4): 335-343
- **AN ARCHITECTURAL AND STRUCTURAL CRANIOFACIAL ANALYSIS - A NEW LATERAL CEPHALOMETRIC ANALYSIS** *ORAL SURGERY ORAL MEDICINE ORAL PATHOLOGY ORAL RADIOLOGY AND ENDODONTICS*
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