

**a.o. Univ.-Prof. DDr. Kurt Alexander Schicho**  
**Publikationen und Vorträge 2001-Dez 2010**

**JOURNAL-PUBLIKATIONEN; ERSTAUTOR**

**TOP-JOURNALE:**

**Schicho K**, Figl M, Seemann R, Donat M, Pretterklieber ML, Birkfellner W, Reichwein A, Wanschitz F, Kainberger F, Bergmann H, Wagner A, Ewers R. Comparison of laser surface scanning and fiducial marker-based registration in frameless stereotaxy. Journal of Neurosurgery 2007, 106:704-709.

**Schicho K**, Figl M, Seemann R, Ewers R, Lambrecht JT, Wagner A, Watzinger F, Baumann A, Kainberger F, Fruehwald J, Klug C. Accuracy of treatment planning based on stereolithography in computer assisted surgery. Medical Physics 2006, 33(9):3408-3417.

**Schicho K**, Kastner J, Klingesberger R, Seemann R, Enislidis G, Undt G, Wanschitz F, Figl M, Wagner A, Ewers R. Surface area analysis of dental implants using micro-CT. Clinical Oral Implants Research 2007, 18:459-464.

**Schicho K**, Figl M, Donat M, Birkfellner W, Seemann R, Wagner A, Bergmann H, Ewers R. Stability of miniature electromagnetic tracking systems. Physics in Medicine and Biology (2005) May 7;50(9):2089-98. Epub 2005 Apr 20.

**Schicho K**, Seemann R, Cohen V, Traxler H, Weinstein U, Shohat M, Slovin Z, Figl M, Czerny C, Ewers R, Tal H. Evaluation of bone surface registration applying a micro needle array. Journal of Clinical Periodontology 2007 Nov;34(11):991-7.

**JOURNAL-PUBLIKATIONEN; CO-AUTOR**

**TOP-JOURNALE:**

Seemann R, Guevara G, Undt G, Ewers R, **Schicho K**. Clinical evaluation of tele-endoscopy using UMTS cellphones. Surg Endosc. 2010 May 4. [Epub ahead of print] PubMed PMID: 20440517. (**TOP-Seniorautor in eigenem Drittmittelprojekt**)

Wagner A, Kermer C, Zettinig G, Lang S, **Schicho K**, Noebauer I, Kainberger F, Selzer E, Leitha T. Validity of Sentinel lymph node (SLN) detection following adjuvant radiochemotherapy (RCT) in head and neck squamous cell carcinoma (HNSCC). Technol Cancer Res Treat. 2007 Dec;6(6):655-60

Wagner A, Wanschitz F, Birkfellner W, Zauza K, Watzinger F, **Schicho K**, Kainberger F, Czerny C, Bergmann H, Ewers R. Computer-Aided Placement of Endosseous Oral Implants in Patients after Ablative Tumor Surgery: Assessment of Accuracy. Clin Oral Implants Res. 2003 Jun;14(3):340-8.

Wagner A, **Schicho K**, Kainberger F, Birkfellner W, Glaser C, Grampp S, Ewers R. Quantification and Clinical Relevance of Head Motion During Computed Tomography. Invest Radiol. 2003;38(11):733-741.

Wagner A, **Schicho K**, Birkfellner W, Figl M, Seemann R, König F, Ewers R. Quantitative Analysis of Factors Affecting Intraoperative Precision and Stability of Optoelectronic and Electromagnetic Tracking-Systems. Medical Physics 2002 May;29(5):905-12.

Wanschitz F, Birkfellner W, Figl M, Patruta S, Wagner A, Watzinger F, Yerit K, **Schicho K**, Hanel R, Kainberger F, Imhof H, Bergmann H, Ewers R. Computer-enhanced stereoscopic vision in a head-mounted display for oral implant surgery. Clin Oral Implants Res. 2002 Dec;13(6):610-6. (**Impact-Faktor: 2.139**)

**JOURNAL-PUBLIKATIONEN; CO-AUTOR**  
**STANDARD-JOURNALE:**

Juergens P, et al. **Schicho K**. Navigation guided harvesting of autologous iliac crest graft for mandibula reconstruction. J Oral Maxillofac Surg, accepted for publication, (**Seniorautor in eigenem Drittmittelprojekt**)

Truppe M, **Schicho K**, Kawana H, Ewers R. Perspectives of Teleconsultation in Craniomaxillofacial Surgery. J Oral Maxillofac Surg. 2010 Sep 22. [Epub ahead of print]

Seemann R, Lauer G, Poeschl PW, **Schicho K**, Pirklbauer M, Russmüller G, Krennmair G, Perisanidis C, Ewers R, Klug C. CROOMA, complication rates of operatively treated mandibular fractures, paramedian and body. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2010 Oct 15. [Epub ahead of print]

Ewers R, Seemann R, Krennmair G, **Schicho K**, Kurdi AO, Kirsch A, Reichwein A. Planning implants crown down-a systematic quality control for proof of concept. J Oral Maxillofac Surg. 2010 Nov;68(11):2868-78.

Seemann R, Perisanidis C, **Schicho K**, Wutzl A, Poeschl WP, Köhnke R, Kinast B, Brunner J, Krennmair G, Ewers R, Klug C. Complication rates of operatively treated mandibular fractures--the mandibular neck. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2010 Jun;109(6):815-9.

Seemann R, **Schicho K**, Wutzl A, Koinig G, Poeschl WP, Krennmair G, Ewers R, Klug C. Complication rates in the operative treatment of mandibular angle fractures: a 10-year retrospective. J Oral Maxillofac Surg. 2010 Mar;68(3):647-50.

Juergens P, Krol Z, Zeilhofer HF, Beinemann J, **Schicho K**, Ewers R, Klug C. Computer simulation and rapid prototyping for the reconstruction of the mandible. J Oral Maxillofac Surg. 2009 Oct;67(10):2167-70.

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Seemann R, Frerich B, Müller S, Koenke R, Ploder O, **Schicho K**, Piffko J, Poeschl P, Wagner A, Wanschitz F, Krennmair G, Ewers R, Klug C. Comparison of locking and nonlocking plates in the treatment of mandibular condyle fractures. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2009 Sep;108(3):328-34.

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Truppe M, **Schicho K**, Kawana H, Ewers R. Perspectives of teleconsultation in cranio-maxillofacial surgery. J Oral Maxillofac Surg.

Wutzl A, Sinko K, Shengelia N, Brozek W, Watzinger F, **Schicho K**, Ewers R. Examination of dental casts in newborns with bilateral complete cleft lip and palate. Int J Oral Maxillofac Surg. 2009 Oct;38(10):1025-9.

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Wutzl A, Biedermann E, Wanschitz F, Seemann R, Klug C, Baumann A, Watzinger F, **Schicho K**, Ewers R, Millesi G. Treatment results of bisphosphonate-related osteonecrosis of the jaws. Head Neck. 2008 Sep;30(9):1224-30.

Tal H, **Schicho K**, Shohat M. Implant locating and placement based on a novel tactile imaging and registration concept: a technical note. Int J Oral Maxillofac Implants. 2007; 22(6):1007-11.

Seemann R, **Schicho K**, Reichwein A, Eisenmenger G, Ewers R, Wagner A. Clinical evaluation of mechanically optimized plates for the treatment of condylar process fractures. Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2007.

G. Wittwer, W. L. Adeyemo, **K. Schicho**, W. Birkfellner, and G. Enislidis. Prospective randomized clinical comparison of two dental implant navigation systems. Int J Oral Maxillofac Implants. 2007 Sep-Oct;22(5):785-90.

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Frühwald J, **Schicho K**, Figl M, Benesch T, Watzinger F, Kainberger F. Accuracy of craniofacial measurements: CT and 3D CT compared with stereolithographic models. J Craniofac Surg. 2008 Jan;19(1):22-26

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C. Klug, **K. Schicho**, O. Ploder, K. Yerit, F. Watzinger, R. Ewers, A. Wagner. Point-to-point computer-assisted navigation for precise transfer of planned zygoma osteotomies from the sterolithographic model into reality. J. Oral Maxillofac. Surg., **64**, 550-559 (2006).

Wittwer G, Adeyemo WL, **Schicho K**, Gigovic N, Turhani D, Enislidis G. Computer-guided flapless transmucosal implant placement in the mandible: A new combination of two innovative techniques. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2006 Jun;101(6):718-23.

Ewers R, **Schicho K**, Wanschitz F, Truppe M, Seemann R, Wagner A. Basic research and 12 years of clinical experience in computer assisted navigation technology: A review; International Journal of Oral & Maxillofacial Surgery 2005; 34(1), 1-8.

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Wagner A, Krach W, **Schicho K**, Undt G, Ploder O, Ewers R. A 3-dimensional finite-element analysis investigating the biomechanical behavior of the mandible and plate osteosynthesis in cases of fractures of the condylar process. Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2002 Dec;94(6):678-86.

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Wagner A, Undt G, Watzinger F, Wanschitz F, **Schicho K**, Yerit K, Kermer C, Birkfellner W, Ewers R. Principles of computer-assisted arthroscopy of the temporomandibular joint with optoelectronic tracking technology. Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2001 Jul;92(1):30-7.

### **BUCHBEITRÄGE**

**Schicho K**, Ewers R. Teleplanning in Image-Guided Dental Implantology. Beitrag in "Teleradiology", Ed. By Sajeesh Kumar et al. Springer Verlag 2008.

**Schicho K** et al. Implantatnavigation. Kapitel in: Zahnärztliche Operationen, S.378ff, J.Thomas Lambrecht (Hrsg.) Quintessenz Verlags-GmbH, 2008.

Baumann A, **Schicho K**, Klug C, Wagner A, Ewers R. Computer-assisted navigational surgery in oral and maxillofacial surgery. Atlas Oral Maxillofac Surg Clin North Am. 2005 Mar;13(1):41-9.

**Schicho K.**, Watzinger F, Wagner A, Reichwein A, Undt G, Ewers R. Distraction osteogenesis in oral and maxillofacial surgery using navigation technology and stereolithography. Atlas im Verlag BC Decker (Canada), 2007.

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Reichwein A, Lambrecht JT, **Schicho K.**, Undt G, Ewers R. Clinical experience with piezosurgery. Atlas im Verlag BC Decker (Canada)

### **KONGRESSBEITRÄGE, ABSTRACTS und VORTRÄGE**

**Schicho K.**, Guevara-Rojas G, Watzinger F, Ewers R. Navigation in CMF Surgery. Eingeladene Key Note Lecture am 3rd International Interdisciplinary AOCMF Course on Skull Base Surgery „Anterior Skull Base“, 9.November 2010, Wien.

**Schicho K.**, Guevara-Rojas G, Watzinger F, Ewers R. 3D Procedure planning and transfer technologies in CMF-Surgery. Eingeladener Vortrag am Bernd-Spiessl-Symposium 2010 (Face & Identity, Spirit of Innovation), Basel, Schweiz 17.Juni 2010.

**Schicho K** et al.: Teleconsultation in Craniomaxillofacial Surgery; Robotics: Revolution in Surgical Teaching. Invited speaker bei „William H Bell Lectureship “Accelerated orthognathic surgery and increased orthodontic efficiency: a paradigm shift“, UT Southwestern Medical Center, Dallas, Texas, USA, 14.11.2009.

Christoph Weber, Michael Figl, **Kurt Schicho.** Splint deformation measurement: a contribution to quality control in computer assisted surgery, Paper 7625-123, Postersession am 15. Februar 2010 am SPIE Medical Imaging, San Diego, CA United States.

**Schicho K.** Intraoperative Navigation in Lateral Skull Base Surgery – craniomaxillofacial aspects. Eingeladener Vortrag am „2nd International Interdisciplinary AO Course on Skull Base Surgery Approaches to the Lateral Skull Base“, Wien, 24.9.2009.

**Schicho K.** Teleplanning and simulation in computer assisted surgery. Eingeladener Vortrag am 1st ISCAS workshop on computer aided ENT and maxillofacial surgery auf der CARS 2009 (Computer Assisted Radiology and Surgery), Berlin, 26.Juni 2009.

**Schicho K.** Medical rapid prototyping and surgical procedure planning. Eingeladener Vortrag am Workshop „3D Operation planning and intraoperative navigation CMF-surgery“ am Bernd-Spiessl-Symposium Basel, 11.Juni 2009; Basel, Schweiz.

**Schicho K.**, Grüssinger H, Lorenzelli L, Decarli M, Adami A, Odorizzi L, Macciardi F, Kalatzis F. Lab-on-chip: Innovative approach towards telemedicine in primary care. Asian Hospital&Healthcare Management. 19: 66-67, 2009.

**Kurt Schicho.** Godoberto Guevara, Leandro Lorenzelli, Fabio Macciardi, Fanis Kalatzis, Rolf Ewers. Telemedicine today: From computer assisted surgery to DNA-analyses. Keynote-Speaker

auf der „4th Baltic Sea Region Conference in Medical Sciences“, Warschau, Polen, 26. April 2009.

**Kurt Schicho**, Heimo Grüssinger, Leandro Lorenzelli, Fabio Macciardi, Fanis Kalatzis: Innovations in telemedicine for point-of-care-monitoring based on innovative lab-on-chip technology. Vortrag auf der „2nd International Conference on Advanced Information and Telemedicine Technologies for Health“ Minsk, Belarus, 3. Oktober 2008 und Beitrag im Abstract-Band.

Ewers R, **Schicho K.** Navigation in Head and Neck Surgery. Lecture at the 3rd International Conference „Advanced Digital Technology in Head and Neck Reconstruction“, 29.6.-1.7.2008, Cardiff (GB)

**Schicho K.** Klug C, Nell C, Watzinger F. Ewers R. Augmented reality and 3D-stereolithography for the correction of large bone defects. Lecture at the 3rd International Conference „Advanced Digital Technology in Head and Neck Reconstruction“, 29.6.-1.7.2008, Cardiff (GB)

**Schicho K.** Innovations in medicine – point of care monitoring. Lecture at CARS 2008, 22nd International Congress and Exhibition, 25.-28th June 2008, Barcelona, Spain.

Ewers R, **Schicho K.** Watzinger F. Augmented reality and rapid prototyping. Lecture at CARS 2008, 22nd International Congress and Exhibition, 25.-28th June 2008, Barcelona, Spain.

Lambrecht JT, Ewers R, **Schicho K.** Current developments in computer assisted dental implantology. Lecture at CARS 2008, 22nd International Congress and Exhibition, 25.-28th June 2008, Barcelona, Spain.

**Schicho K.** Ewers R. Current trends in computer assisted dental implantology. Vortrag als invited speaker am 3rd International Congress der Computer Aided Implantology Academy, Florenz, Italien, 29. März 2008.

**Schicho K.** Nell C, Klug C, Ewers R. Preoperative simulation for the optimization of the surgical treatment of large bone defects. Vortrag auf der 5th International Conference on Computer Aided Surgery around the Head; Leipzig, Germany, 6.-8. Februar 2008; Beitrag im Abstract Band.

**Schicho K.** Seemann R, Reichwein A, Ewers R. Der aktuelle Stand der computerassistierten Dentalimplantologie. Vortrag am 12. Jahreskongress der Österreichischen Gesellschaft für Mund-, Kiefer- und Gesichtschirurgie, Bad Hofgastein, 30. Jänner 2008; Beitrag im Abstract Band.

**Schicho K.** Surgical navigation in the 3D-virtual in-office setting: position tracking system with templates after navigation on the SL model. Invited speaker at the conference “A paradigm shift in orthognathic surgery”, November 9<sup>th</sup>-10<sup>th</sup>, 2007, Southlake, Texas. (UT Southwestern Medical Center, Dallas, Texas, USA).

Reichwein A, Poeschl P, Seemann R, **Schicho K.** Ewers R. First report of an innovative angle stable, ultrasonic-guided, resorbable osteosynthesis system for the treatment of midfacial trauma. Vortrag am AAOMS 89<sup>th</sup> Annual Meeting, Hawaii, 8.-13.10.2007; Abstract im Supplement to the Journal of Oral and Maxillofacial Surgery 65(9), Suppl.2.

**Schicho K.**, Kronreif G, Ewers R. Theoretical background for the development of a robot in navigated dental implantology. Vortrag auf der CARS 2007 (21<sup>st</sup> International Congress on Computer Assisted Radiology and Surgery, Berlin, 27.-30.Juni 2007) und Beitrag im Int J Comp Ass Radiol Surg (Proceedings).

Lambrecht J.T., Ewers R. **Schicho K.** Tutorial on Computer assisted Surgery. Vortrag am 21<sup>st</sup> International Congress on Computer Assisted Radiology and Surgery, Berlin, 27.-30.Juni 2007.

**Schicho K.**, Ewers R, Assadian O. Steril-Aufbereitung des Instrumentariums für die intraoperative Navigation im klinischen Routineeinsatz. Vortrag und Abstract beim 19.DOSCH Symposium für Krankenhaushygiene und nosokomiale Infektionen, 21.-32.Mai 2007, Millstatt, Kärnten.

**Schicho K.**, Ewers R. Neue Trends in der Telemedizin. Eingeladener Vortrag und Beitrag im Abstract-Band der CURAC 2006, 5.Jahrestagung der Deutschen Gesellschaft für Computer- und Roboterassistierte Chirurgie, Medizinische Hochschule Hannover, 12.-14.Oktober 2006.

**Schicho K.**, Ewers R, et al.: Innovation in computer-assisted dental implantology: Tactile sensor technology, Beitrag im Abstract Band und Vortrag bei der CARS 2006, 20th International Congress on Computer Assisted Radiology and Surgery, Osaka, Japan, 28.6.-1.7.2006.

**Schicho K.**, Ewers R. et al. Recent developments in computer assisted surgery and telemedicine. Vortrag beim kroatischen Chirurgie Kongress, Zadar, Mai 2006.

Ewers R, **Schicho K.**, Fahrenholz H, Seemann R, Reichwein A, et al. Computer-aided surgery for transmucosal implant placement with live surgery directly from Vienna and immediate prosthetic restoration. Vortrag beim 1<sup>st</sup> International Camlog Congress 2006, 11.-13.Mai 2006, Montreux, CH.

Ewers R, **Schicho K.** Rapid prototyping and virtual reality in cranio-maxillofacial surgery: Current state of development and future perspectives; Vortrag beim 2. Bernd-Spiessl-Symposium, 16.-18. Juni 2006, Basel.

Ewers R, **Schicho K.** Critique on computer assisted surgery, Vortrag am 4<sup>th</sup> International Symposium on Orthognathic Surgery and Distraction Osteogenesis, 20.-23.Juli 2006, Stuttgart.

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**Schicho K.**, Ewers R, Truppe M. Neue Trends und Entwicklungen von Telepräsenz und intraoperativer Navigation in der Mund-, Kiefer- und Gesichtschirurgie; Vortrag bei a-telmed 2005, Workshop des Exzellenzzentrums für Telemedizin und der Österreichischen Wissenschaftlichen Gesellschaft für Telemedizin; Wien, 19.9.2005; Beitrag im Abstract-Band;

Ewers R, Lambrecht J.T., **Schicho K.** Tutorial on computer assisted surgery: Innovations in computer-assisted surgery and telemedicine", Vortrag bei CARS 2005 (Computer assisted radiology and surgery), 19<sup>th</sup> International Congress and Exhibition, 21.-24.6.2005, Berlin.

**Schicho K**, Ewers R, Wagner A, Watzinger F, Seemann R, Klug C. Stereolithographische Schädelmodelle zur Planung von Operationen mit computerassistierter Navigation. Vortrag am 9. Kongress der Österreichischen Gesellschaft für Mund-, Kiefer- und Gesichtschirurgie, Bad Hofgastein, 1.-5.Feb.2005. Beitrag im Abstract-Band.

Wagner A, **Schicho K**, Krach W, Reichwein A, Eisenmenger G, Wanschitz F, Ewers R. Osteosynthese von Frakturen des Collum mandibulae – Biodynamische Grundlagen und klinische Umsetzung. Vortrag am 9. Kongress der Österreichischen Gesellschaft für Mund-, Kiefer- und Gesichtschirurgie, Bad Hofgastein, 1.-5.Feb.2005. Beitrag im Abstract-Band.

Wittwer G, **Schicho K**, Wagner A. Navigierte interforaminale transmukosale Implantation mit anschließender Sofortbelastung – Resultate. Vortrag am 9. Kongress der Österreichischen Gesellschaft für Mund-, Kiefer- und Gesichtschirurgie, Bad Hofgastein, 1.-5.Feb.2005. Beitrag im Abstract-Band.

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**Schicho K**, Wittwer G, Wagner A, Seemann R, Ewers R. Trends and perspectives in computer-assisted dental implantology. Vortrag und Abstract bei MRNV 2004 – Medical Robotics, Navigation and Visualization Workshop RheinAhrCampus Remagen, Germany, 11.-12.3.2004. Proceedings: Perspectives in image-guided surgery: Proceedings of the Scientific Workshop on Medical Robotics, Navigation and Visualization edited by Thorsten M Buzug (RheinAhrCampus Remagen, Germany) & Tim C Lueth (Humboldt University of Berlin, Germany).

**Schicho K**, Ewers R, Wagner A, Seemann R, Figl M, Frühwald J, Klug C. Accuracy of the transfer of a preoperative plan from stereolithographic skull models to the patient. In: Proceedings (S. 1321) of the 18<sup>th</sup> International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS) 2004 und Poster bei CARS 2004, 23.-26.6.2004, Chicago, USA.

**Schicho K**, Ewers R, Wagner A, Truppe M. Telemedizin und Augmented Reality in der Mund-, Kiefer- und Gesichtschirurgie. Vortrag am Kongress „Automed 2004“ an der Neurochirurgischen Klinik des Saarlandes, 15.-16.Oktober 2004, Saarbrücken. Beitrag im Tagungsband.

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Ewers R, Lambrecht J.T, **Schicho K** et al. Tutorial on Computer Assisted Surgery, Vortrag bei CARS 2004, 23.-26.6.2004, Chicago, USA.

Wittwer G, **Schicho K**, Wagner A, Ewers R. „How I ...Apply computer-assisted navigation technology to perform transmucosal interforaminal implantation with immediate loading“. Abstract und Vortrag bei WCOI6 (World Congress for Oral Implantology) in Honolulu, Hawaii, USA, 5.-8.3.2004.

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Bruckner S, Figl M, Wagner A, **Schicho K**, Elmenreich W. Applying a real-time interface to an optical tracking system. Vortrag bei: 1<sup>st</sup> International Symposium on Computer Aided Surgery around the Head, Interlaken, Switzerland, 27.2.-1.3.2003.

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