

PD Dr. med. Ralf A. Kockro

Wissenschaftliche Veröffentlichungen

Scientific publications

07/2017

1. Kockro RA, Killeen T, Ayyad A, Glaser M, Stadie A, Reisch R, Giese A, Schwandt E: Aneurysm surgery with pre-operative 3D planning in a Virtual Reality environment: Technique and outcome analysis. ***World Neurosurgery***, 96: 489-499, Dec 2016
2. Kockro RA, Hauser SB, Bernays RL: In Reply: Glioblastoma Resection Guided by Flow Cytometry. ***Neurosurgery*** 78 (5): 761-2, May 2016
3. Kockro RA, Wetzel S: Kavernome im Hirnstamm: Perioperative Bildgebung und mikrochirurgische Strategien. ***Neurologie & Psychiatrie***, Vol. 14, Nr. 2, Mai 2016
4. Hugelshofer MD, Koechlin NO, Hani M, Kockro RA, Reisch R: Endoscopic Fenestration of Intraventricular Cerebrospinal Fluid Cysts: The Contralateral Approach. ***Journal of Neurosurgery***, 2:1-6. Oct 2015
5. Kockro RA, Amaxopoulou C, Killeen T, Wagner W, Reisch R, Schwandt E, Gutenberg A, Giese A, Stofft E, Stadie AT: Stereoscopic neuroanatomy lectures using a Virtual Reality environment. ***Annals of Anatomy***, 201:91-8, Sept 2015
6. Hauser S, Kockro RA, Actor B, Sarnthein J, Bernays R: Combining 5-ALA fluorescence and intra-operative MRI in glioblastoma surgery: a histology-based evaluation (Kockro is corresponding author and as equal first author) ***Neurosurgery***, Sept 2015
7. Reisch R, Marcus HJ, Hugelshofer M, Koechlin NO, Stadie A, Kockro RA: Patients' cosmetic satisfaction, pain, and functional outcomes after supraorbital craniotomy through an eyebrow incision. ***Journal of Neurosurgery***, 30:1-5, May 2014
8. Ulrich NH, Kockro RA, Bellut D, Amaxopoulou C, Bozinov O, Burkhardt JK, Sarnthein J, Kollias SS, Bertalanffy H: Brainstem cavernoma surgery with the support of pre- and postoperative diffusion tensor imaging: initial experiences and clinical course of 23 patients. (Ulrich and Kockro as equal co-authorship) ***Neurosurgical Review***, 37(3):48, May 2014
9. Kockro RA, Mallmann A, Renner R, Wetzel SG: Primäres ZNS Lymphom. Erweiterte MRI-Diagnostik (Spektroskopie, DWI, PWI) und MRI gestützte Biopsie. ***Neurologie & Psychiatrie***. Vol. 12, Nr. 1, Januar 2014
10. Serra C, Huppertz HJ, Kockro RA, Grunwald T, Bozinov O, Krayenbühl N, Bernays RL: Rapid and accurate anatomical localization of implanted subdural electrodes in a Virtual Reality environment. ***J Neurol Surg A Cent Eur Neurosurg***. 74(3):175-82, May 2013

11. Reisch R, Marcus H, Koechlin NO, Hugelshofer M, Stadie A, Kockro RA: Transcranial endoscope-assisted keyhole surgery: anterior fossa.
Innovative Neurosurgery, Vol:1: 77-89, May 2013
12. Kockro RA: Neurosurgery simulators - Beyond the experiment.
World Neurosurgery, 8(5): 101-2, Nov 2013
13. Kockro RA, Robert R, Serra L, Goh LC, Lee E, Stadie A: Image-Guided Neurosurgery with 3-Dimensional Multimodal Imaging Data on a Stereoscopic Monitor.
Neurosurgery, 72, 1:78-88, Jan 2013
14. Stadie A, Kockro RA: Mono-Stereo-Autostereo: The Evolution of 3-Dimensional Neurosurgical Planning.
Neurosurgery, 72, 1:63-77, Jan 2013
15. Kockro RA, Reisch R, Cesnulis E: [in German] Neuro-vaskulärer Konflikt im Bereich des Nervus trigeminus: Multi-modale 3D-Visualisierung und Planung der Dekompression am Simulator.
Neurologie & Psychiatrie, Vol. 10, Nr. 4, September 2012
16. Reisch R, Stadie A, Kockro RA, Hopf N: The Keyhole Concept in Neurosurgery.
World Neurosurgery, Feb 2012
17. Lemm D, de Oliveira FH, Bernays RL, Kockro RA, Kollias S, Fischer I, Rushing EJ: Rare suprasellar glioblastoma: report of two cases and review of the literature.
Brain Tumor Pathology, Feb 2012
18. Bellut D, Woernle CM, Burkhardt JK, Kockro RA, Bertalanffy H, Krayenbühl N: Subdural Drainage versus Subperiosteal Drainage in Burr-Hole Trepanation for Symptomatic Chronic Subdural Hematomas.
World Neurosurgery. 77(1):111-8, 2012
19. Burkhardt JK, Kockro RA, Dohmen-Scheufler H, Woernle CM, Bellut D, Kollias S, Bertalanffy H: Small supratentorial, extraaxial primitive neuroectodermal tumor causing large intracerebral hematoma.
Neurol Med Chir (Tokyo). 51(6):441-4, 2011
20. Bozinov O, Burkhardt JK, Fischer CM, Kockro RA, Bernays RL, Bertalanffy H: Advantages and limitations of intraoperative 3D ultrasound in neurosurgery. Technical note.
Acta Neurochirurgica, 109:191-6, 2011
21. Stadie AT, Degenhardt I, Conesa G , Reisch R, Kockro RA, Fischer G, Hecht H: Comparing expert and novice spatial representation on the basis of VR simulation, MRI images, and physical objects.
Journal of Cyber Therapy and Rehabilitation, 3:299-306, 2010
22. Stadie AT, Kockro RA, Serra L, Fischer G, Schwandt E, Grunert P, Reisch R: Neurosurgical craniotomy localization using a virtual reality planning system versus intraoperative image-guided navigation.
Journal of Computer Assisted Radiology and Surgery (CARS), 6:565–572, 2010

23. Grunert P, Glaser M, Kockro RA, Boor S, Oertel J: An alternative projection for fluoroscopic-guided needle insertion in the foramen ovale: technical note.
Acta Neurochirurgica, 152:1785-92, 2010
24. Kockro RA, Amaxopoulou C: Book Review of: Zang-Hee Cho (Editor): Tesla MRI Brain Atlas: In Vivo Atlas with Cryomacrotome Correlation.
Neurosurgical Review 33(3):383-384, 2010
25. Reisch R, Stadie A, Kockro RA, Gawish I, Schwandt E, Hopf N: The minimally invasive supraorbital subfrontal key-hole approach for surgical treatment of temporomesial lesions of the dominant hemisphere.
Minimally Invasive Neurosurgery. 52:163-9, 2009
26. Kockro RA, Yeo TT, Ng I, Zhu C, Agusanto K, L Serra: DEX-Ray: Augmented Reality neurosurgical navigation with a handheld video probe.
Neurosurgery, 65:795-807, 2009
27. Kockro RA, Hwang P: The virtual temporal bone. An interactive threedimensional leaning aid for cranial base surgery.
Neurosurgery 64:216-29, 2009
28. Ng I, Hwang PYK, Hwang, Kumar D, Lee CK, Kockro RA, Sitoh YY: Surgical planning for microsurgical excision of cerebral Arteriovenous Malformations using Virtual Reality technology.
Acta Neurochirurgica, 151:453-63, 2009
29. Charalampaki P, Ayyad A, Kockro RA, Perneczky A: Surgical complications after endoscopic transsphenoidal pituitary surgery.
Journal of Clinical Neuroscience, 16:786-9, 2009
30. Stadie A, Reisch R, Kockro RA, Fischer G, Schwandt E, Boor S, Stoeter P: Minimally invasive cerebral cavernoma surgery using keyhole approaches - solutions for technique-related limitations.
Minimally Invasive Neurosurgery 52:9-16, 2009
31. Charalampaki P, Heimann A, Kockro RA, Kohen W, Kempski O: A new model of skull base reconstruction following expanded endonasal or transoral approaches - long term results in primates.
European Surgical Research, 41:208-23, 2008
32. Kockro RA, Giacomelli R, Scheihing M: Aschoff A, Hampl J: A stereotactic device for rabbits based on mandibular and cranial landmarks.
Journal of Neurosurgery, 108:601-606, 2008
33. Stadie AT, Kockro RA, Tropine A, Boor S, Stoeter P, Reisch R, Perneczky A: A Virtual Reality system for planning minimally invasive neurosurgery.
Journal of Neurosurgery, 108:382-94, 2008
34. Kockro RA, Stadie AT, Schwandt E, Reisch R, Charalampaki C, Ng I, Yeo TT, Hwang P, Serra L, Perneczky A: A collaborative Virtual Reality environment for neurosurgical planning and training.
Neurosurgery, 61:379-91, 2007
35. Hwang P, Kockro RA, Lee CK, Ng I: Virtual reality simulation for skull base surgery.
Asian Journal of Neurosurgery , 1:1-8, 2007

36. Serra L, Kockro RA, Goh LC, Ng H, Lee EC.: The DextroBeam: A stereoscopic presentation system for volumetric medical data.
Studies in Health Technology Informatics 85:478-84, 2002
37. Kockro RA, Serra L, Yeo TT, Chan C, Sitoh YY, Chua G, Ng H, Lee E, Lee YH, Nowinski W: Planning and simulation of neurosurgery in a Virtual Reality Environment.
Neurosurgery 46:118-137, 2000
38. Kockro RA, Hampl J, Jansen B, Peters G, Scheihing M, Giacomelli R, Kunze S, Aschoff A: The efficacy of Rifampin-impregnated CSF-shunt catheters in infection prophylaxis: scanning electron microscopical examinations in vitro and in an animal model.
Journal of Medical Microbiology 49: 441-450, 2000
39. Kockro RA, Serra L, Tsai YT, Chan C, Sitoh YY, Chua GG, Hern N, Lee E, Hoe LY, Nowinski W: Planning of skull base surgery in the virtual workbench: clinical experiences.
Health Technology and Informatics 62:187-8, 1999
40. Serra L, Hern N, Guan CG, Lee E, Lee YH, Yeo TT, Chan C, Kockro RA: An interface for precise and comfortable 3D work with volumetric medical datasets.
Health Technology and Informatics 62:328-34, 1999
41. Serra L, Kockro RA, Chua GG, Ng H, Lee CK, Lee YH, Chan c, Nowinski W : Multimodal volume-based tumor neurosurgery planning in the Virtual Workbench,
Medical Image Computing and Computer-Assisted Intervention (MICCAI), Springer Berlin/Heidelberg 1496:1007-1016, 1998