Jahresbericht 2009

UNIVERSITÄTSKLINIK FÜR ORTHOPÄDISCHE CHIRURGIE
INSELSPITAL BERN

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Personelles		
Funktion	**Name**	**Fachbereich**
Klinikdirektor und Chefarzt	Prof. Dr. K.-A. Siebenrock	
Stv. Chefarzt	Prof. Dr. P. Heini (-31.10.09)	
Teamleiter	Prof. Dr. K.-A. Siebenrock Prof. Dr. P. Heini Dr. U. Seidel PD Dr. S. Eggli PD Dr. M. Weber Dr. R. Nyffeler	Hüfte, Becken, Tumorchirurgie Wirbelsäule (bis 31.10.09) Wirbelsäule (ab 01.11.09) Knie und Sportverletzungen Sprunggelenk und Fuss Obere Extremität, Skelett- und Weichteilrekonstruktion
Consultant	Prof. Dr. M. Keel	
Oberärzte	Dr. L. Benneker Dr. L. Büchler Dr. U. Haupt Dr. M. Kleinschmidt Dr. F. Krause Dr. A. Krüger Dr. D. Sägesser Dr. U. Seidel Dr. P. Wildisen Dr. M. Zumstein	
Assistenzärzte	Dr. J. Bastian Dr. S. Deckelmann Dr. T. Ecker Dr. Al. Fischer Dr. An. Fischer Dr. A. Güleryüz Dr. P. Häfliger Dr. M. Hartel Dr. S. Heitkemper Dr. P. Henle Dr. J. Henning Dr. C. Hümmer Dr. L. Iselin Dr. A. Joeris Dr. J. Klenk Dr. F. Klenke Dr. H. Kohlhof Dr. T. Kusano Dr. M. Neumann Dr. I. Raabe Dr. T. Schmid Dr. H.-J. Sebald Dr. M. Tannast Dr. W. Tatus Dr. R. Teuscher	

Funktion	Name	Fachbereich
Wissenschaftliche Oberärzte, Assistenzärzte und Mitarbeiter	Dr. C. Albers Dr. J. Kajahn Dr. S. Kohl Dr. T.C. Mamisch Dr. M.O. Montjovent (DKF) M. Puls Dr. C. Röder Dr. S. Steppacher Dr. K. Ziebarth	

Sekretariat Direktor & Departementsvorsitz DOPH	M. Gempeler/ N. Blickenstorfer	
Pflegeleitung OPS	Ch. Matzner	
Pflegeleitung Klinik	E. Müller	
Fotolabor	U. Widmer	
Wiss. Mitarbeiterin	E. Schlappritzi	

Kennzahlen (Patienten, Eingriffe)

Stationäre Eingriffe	2008	2009
Wirbelsäule	1'205	1'198
Schultergürtel	330	448
Oberarm, Humerusschaft	49	39
Ellbogen	98	142
Unterarm, Ulna-, Radiusschaft	83	114
Handgelenk, distaler Radius	97	119
Beckengürtel, Hüfte	656	764
Oberschenkel, Femurschaft	197	200
Kniegelenk	819	882
Unterschenkel, Tibia-, Fibulaschaft	286	273
Sprunggelenk, Fusswurzel	156	158
Fuss	388	517
Total	**4'358**	**4'854**

Klinik	2008	2009
Patienten inkl. Tagesklinik	2'903	2'990
Pflegetage insgesamt	22’320	23'062
Durchschnittlicher Spitalaufenthalt Tage	8.30	8.20
Durchschnittliche Bettenbelegung	89.68	92.92
Zahl der durchschnittlich betriebenen Betten	68	68
Gesamtbettenzahl	**70**	**70**

Polikliniken		2008	2009
Becken, Hüfte	Neue Patienten	475	467
	Kontrollen	1'893	1'942
	Kontrollen Gipszimmer	164	230
Fuss	Neue Patienten	390	472
	Kontrollen	1'244	1'228
	Kontrollen Gipszimmer	930	951
Knie	Neue Patienten	502	516
	Kontrollen	1'718	1'751
	Kontrollen Gipszimmer	318	311
Obere Extremität	Neue Patienten	258	230
	Kontrollen	1'299	1'485
	Kontrollen Gipszimmer	508	810
Wirbelsäule	Neue Patienten	775	844
	Kontrollen	2'040	1'893
	Kontrollen Gipszimmer	332	341
Polikliniken Total	Neue Patienten	2'407	2'529
	Kontrollen	8'194	8'299
	Kontrollen Gipszimmer	2'252	2'643

Kinderorthopädie	2008	2009
Kinderorthopädie Wirbelsäulensprechstunde	205	110
Kinderorthopädie Hüftsprechstunde	36	43

Zentrale Gipsabteilung	2008	2009
Total Konsultationen	2'729	2'687

Quelle: Qualicare

Forschung und Lehre

Preise und Ehrungen

AOFAS Traveling Fellowship Award:
American Orthopaedic Foot & Ankle Society
July 14–August 5, 2009
Krause FG

Posterpreis 2009, Association Suisse Romande pour l'Étude de la Hanche (AREH):
69. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie und Traumatologie (SGOT), Genf, 24.-26.06.2009
Keel M, Bastian JD, Büchler L, Meyer DC, Siebenrock KA
Treatment of a defect in the femoral head after traumatic anterior hip dislocation by surgical hip dislocation and osteochondral transplantation – a case report

2. Poster Preis 2009:
69. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie und Traumatologie (SGOT), Genf, 24.-26.06.09
Steppacher SD, Tannast M, Zheng G, Zhang X, Kowal J, *Siebenrock KA,* Murphy SB
Accuracy of CT-based computer-navigated total hip arthroplasty

Drittmittel

Amgen Extramural Research Alliances
Klenke F
Promoting the resorption of bone substitutes: A new biomaterial coating technique for the administration of the osteoclast growth factor RANKL
(Bereitstellung von RANKL)
Dauer: 2006–2009

AO Foundation, Davos
Heini P
Prospektive Studie Vertebroplastik
CHF 150'000.–
Dauer: 2006–2010

AO Foundation, Davos, Grant Nr. S-07-26R
Röder C, Elfering A
A prospective binational cohort study of surgical and conservative treatment for back pain with degenerated discs
CHF 120'000.–
Dauer: 2008–2010

AOFAS Research Grant, American Orthopaedic Foot & Ankle Society
Krause FG
Biomechanische Studie zur OSG Druckmessung nach Hohlfusskorrektur durch Osteotomie
$ 20'000.–
Dauer: 2009–2010

Bundesamt für Gesundheit (BAG), Grant Nr 09.003538/2040001/-612
Kohlhof H, Eggli S
Aufbau und Verwaltung einer pädiatrischen Medikationsdatenbank
CHF 608'000.–
Dauer: 2009–2010

Deutsche Arthrose-Hilfe e.V.
Steppacher S, Tannast M, Siebenrock KA
Intraoperative Dicke- und Steifigkeitsmessung am Hüftgelenksknorpel beim femoro-azetabulären Impingement
(P186-A163-Siebenrock-EP2-step1-hüfte-op-66k-2008-10)
EUR 66'334.–
Dauer: 2008–2010

KTI Projekt Bund (Nr. 9829.1)
Hartel MJ, Eggli S
eMed
CHF 1'706'155.–
Dauer: 2008–2009

KTI Projekt Bund (Nr. 9556.1)
Siebenrock KA, Industriepartner Smith and Nephew
Ultrasound-based intraoperative determination of pelvic orientation and shape – development and clinical evaluation
CHF 654'000.–
Dauer: 2008–2010

Mathys AG, Bettlach
Kohl S
Project: Anterior crucial ligament rupture: healing through dynamic intraligamentary stabilization (DIS)
CHF 120’000.–
Dauer: 2009

RMS Foundation, Dr. h.c. Robert Mathys Stiftung, Bettlach
Eggli S, Kohlhof H
Biunikondyläre Prothese
CHF 100’000.–
Dauer: 2008–2009

RMS Foundation, Dr. h.c. Robert Mathys Stiftung, Bettlach
Klenke FM
RANKL delivering bone substitutes – a new approach to improve the resorption of CaP ceramics
CHF 27’564.–
Dauer: 2008–2010

RMS Foundation, Dr. h.c. Robert Mathys Stiftung, Bettlach
Kohl S
Project: A08_0610_6 ACl_H
CHF 25’000.–
Dauer 2009

RMS Foundation, Dr. h.c. Robert Mathys Stiftung, Bettlach
Kohl S
Project: Biospacer
CHF 15’000.–
Dauer: 2009

Schweizerische Gesellschaft für Orthopädie und Traumatologie (SGOT)
Krause FG
Studie zur OSG Druckmessung nach Hohlfusskorrektur durch Osteotomie
CHF 15’000.–
Dauer: 2009

Schweizerische Gesellschaft für Orthopädie und Traumatologie (SGOT)
Zumstein MA, Bastian JD
Outcomes after anterior cruciate ligament reconstruction with adjusting the initial anteroposterior translation to that of the contralateral healthy knee
CHF 20’000.–
Dauer: 2009–2010

Schweizerischer Nationalfonds (SNF) Nr. 320030-118205
Hunziker EB, Shintani N, *Siebenrock KA*
The influence of age and disease on the chondrogenic potential of human synovial stem cells
CHF 335’000.– (wird vom DKF/Universität Bern verwaltet)
Dauer: 01.09.2007–30.09.2010

SECEC/ESSSE Research Grant
Zumstein MA
Tendon repair technique using platelet rich fibrin (PRF) as an autologous augmentation in repair of chronic rotator cuff tendon tears
CHF 38'500.–
Dauer 2008–2010

Suva-Fonds
Siebenrock KA, Kreutziger J
Wirken Vitamin C und E präventiv hinsichtlich Sudeck-Dystrophie der oberen Extremitäten?
CHF 90'534.–
Dauer: 2006–2010

Swiss Foot & Ankle Society (SFAS)
Krause FG
Studie zur OSG Druckmessung nach Hohlfusskorrektur durch Osteotomie
CHF 10'000.–
Dauer: 2009

Swiss National Science Foundation
National Center of Competence in Research "Computer Aided and Image Guided Medical Interventions"
Tannast M (Co-Project leader), Büchler P, Weber S, Meyes M, Zheng G, Skékely G, Vetter T, Pfahrer M, Thali M
Virtual Skeleton Database (VSD)
CHF 247'000.–
Dauer: 2009–2013

Swiss Society of Orthopaedic Surgeons
Zumstein MA
Platelet rich fibrin (PRF) as an autologous augmentation in repair of chronic rotator cuff tendon tears
CHF 35'000.–
Dauer: 2008–2009

Swisscom, Worblaufen
Kohlhof H, Eggli S
Wissenschaftliche Begleitung EVITA
CHF 50'000.–
Dauer: 2009–2010

Synthes
Heini P
Wissenschaftliche Mitarbeiter Wirbelsäulenchirurgie
CHF 100'000.– jährlich
Dauer: 2006–2010

Stipendien

Büchler L
EFORT Spring Travelling Fellowship in Norway
(für Aufenthalt 10.–17.05.2009)
ca. CHF 4'000.–

Tannast M, Siebenrock KA, Matta JM
Schweizerische Stiftung für medizinisch-biologische Stipendien
Surgical treatment of acetabular fractures – a 20-years perspective
Project in collaboration with the Hip & Pelvis Institute at St. John's Health Center in Santa Monica, CA, USA.
Fellowship for advanced researchers
(für Aufenthalt 01.10.2008–30.09.2009)
CHF 80'000.–

Ziebarth K
Hans Neuenschwander Fonds, Inselspital Bern
Fellowship Childrens Hospital Boston/Texas Scottish Rite Hospital
(für Aufenthalt von 01.03.2009–28.02.2010)
CHF 84'000.–

Ziebarth K
Schweizerische Gesellschaft für Orthopädie und Traumatologie (SGOT)
Fellowship Childrens Hospital Boston/Texas Scottish Rite Hospital
(für Aufenthalt von 01.03.2009–28.02.2010)
CHF 30'000.–

Dissertationen

Bittersohl Bernd
Feasibility of T*2-mapping for the evaluation of hip joint cartilage at 1.5T using a three-dimensional (3D), gradient-echo (GRE) sequence: a prospective study
Leitung *Prof. Dr. med. K.A. Siebenrock*, Departement Orthopädische Chirurgie, Inselspital, Universitätsklinik Bern, 07.10.2009

Deckelmann Stephan
DensiProbe® Spine: ein neuartiges Instrument zur intraoperativen Knochenfestigkeitsmessung bei transpedikulären Stabilisationen
Leitung *Dr. med. L.M. Benneker/Prof. Dr. med. P.F. Heini*, Departement Orthopädische Chirurgie, Inselspital, Universitätsklinik Bern, 09.12.2009

Felder Ursula Maria
SCIWORA (spinal cord injury without radiographic abnormalities): Literaturübersicht und Fallstudie mit 33 Fällen
Leitung *Prof. Dr. med. P.F. Heini*, Departement Orthopädische Chirurgie, Inselspital, Universitätsklinik Bern, 09.12.2009

Hartel Maximilian J.
The mean anatomical shape of the tibial plateau at the knee arthroplasty resection level: an investigation using MRI
Leitung *PD Dr. med. S. Eggli,* Departement Orthopädische Chirurgie, Inselspital, Universitätsklinik Bern, 07.10.2009

Lohri Eveline
Die Behandlung der glenohumeralen Arthritis bei irreparabler Rotatorenmanschettenruptur mittels inverser Delta-III-Schulterprothese unter Berücksichtigung der optimalen Komponentenposition
Leitung *Dr. med. M.A. Zumstein*, Departement Orthopädische Chirurgie, Universität Zürich, Balgrist, Zürich, 2009

Schwab Patrik Ralf
Outcome and patient's satisfaction after functional treatment of acute lateral ankle injuries at emergency departments versus family doctor offices
Leitung *Dr. med. L.M. Benneker/*PD Dr. A.K. Exadaktylos*,* Departement *O*rthopädische Chirurgie, Inselspital, Universitätsklinik Bern, 01.04.2009

Warzecha Christian
Evaluation of capsule resection as risk factor for osteolysis and mechanical component failure after primary total hip arthroplasty
Leitung *Dr. med. C.P. Röder/*Prof. Dr. M. Aebi*,* Institut für Evaluative Forschung in orthopädischer Chirurgie, Universität Bern, 01.04.2009

Wernike Ellen
Graduate School for Cellular and Biomedical Sciences (GCB), Universität Bern
Development of biomaterial-growth factor constructs for the use as bone substitutes
Leitung *Dr. med. F.M. Klenke*, Departement Orthopädische Chirurgie, Inselspital, Universitätsklinik Bern, 07.08.2009

Originalarbeiten In-House

Bastian JD, Egli RJ, *Ganz R*, Hofstetter W, Leunig M
Differential response of porcine osteoblasts and chondrocytes in cell or tissue culture after 5-aminolevulinic acid-based photodynamic therapy. Osteoarthritis Cartilage. 2009 Apr;17(4):539-46.

Bastian JD, Hertel R
Osteosynthesis and hemiarthroplasty of fractures of the proximal humerus: outcomes in a consecutive case series. J Shoulder Elbow Surg. 2009 Mar-Apr;18(2):216-9.

Bastian JD, Wolf AT, Wyss TF, Nötzli HP
Stepped osteotomy of the trochanter for stable, anatomic refixation. Clin Orthop Relat Res. 2009 Mar;467(3):732-8.

Beck M
Groin pain after open FAI surgery: the role of intraarticular adhesions. Clin Orthop Relat Res. 2009 Mar;467(3):769-74.

Beck M, Fucentese SF, Staub L, *Siebenrock K*
Therapie des femoroazetabulären Impingements über die chirurgische Hüftluxation. [Surgical dislocation of the hip for the treatment of femoroacetabular impingement: Technique and results.] Orthopade. 2009 May;38(5):412-8. German.

Billeter A, Turina M, Seifert B, Mica L, Stocker R, *Keel M*
Early serum procalcitonin, interleukin-6, and 24-hour lactate clearance: useful indicators of septic infections in severely traumatized patients. World J Surg. 2009 Mar;33(3):558-66.

Bittersohl B, Hosalkar HS, Haamberg T, Kim YJ, Werlen S, *Siebenrock KA, Mamisch TC*
Reproducibility of dGEMRIC in assessment of hip joint cartilage: a prospective study. J Magn Reson Imaging. 2009 Jul;30(1):224-8.

Bittersohl B, Hosalkar HS, Hughes T, Kim YJ, Werlen S, *Siebenrock KA, Mamisch TC*
Feasibility of T^*_2 mapping for the evaluation of hip joint cartilage at 1.5T using a three-dimensional (3D), gradient-echo (GRE) sequence: a prospective study. Magn Reson Med. 2009 Oct;62(4):896-901.

Bittersohl B, Hosalkar HS, Kim YJ, Werlen S, *Siebenrock KA, Mamisch TC*
Delayed gadolinium-enhanced magnetic resonance imaging (dGEMRIC) of hip joint cartilage in femoroacetabular impingement (FAI): Are pre- and postcontrast imaging both necessary? Magn Reson Med. 2009 Dec;62(6):1362-7.

Bittersohl B, Mamisch TC, Welsch GH, Stratmann J, Forst R, Swoboda B, Bautz W, von Rechenberg B, Cavallaro A
Experimental model to evaluate in vivo and in vitro cartilage MR imaging by means of histological analyses. Eur J Radiol. 2009 Jun;70(3):561-9.

Bittersohl B, Steppacher S, Haamberg T, Kim YJ, Werlen S, *Beck M, Siebenrock KA, Mamisch TC*
Cartilage damage in femoroacetabular impingement (FAI): preliminary results on comparison of standard diagnostic vs delayed gadolinium-enhanced magnetic resonance imaging of cartilage (dGEMRIC). Osteoarthritis Cartilage. 2009 Oct;17(10):1297-306.

Boger A, Wheeler KD, Schenk B, *Heini PF*
Clinical investigations of polymethylmethacrylate cement viscosity during vertebroplasty and related in vitro measurement. Eur Spine J. 2009 Sep;18(9):1272-8.

Büchler L, Hosalkar H, *Weber M*
Arthroscopically assisted removal of intraosseous ganglion cysts of the distal tibia. Clin Orthop Relat Res. 2009 Nov;467(11):2925-31.

Büchler L, Tannast M, Bonel HM, *Weber M*
Reliability of radiologic assessment of the fracture anatomy at the posterior tibial plafond in malleolar fractures. J Orthop Trauma. 2009 Mar;23(3):208-12.

Diel P, Merky D, *Röder C*, Popp A, Perler M, *Heini PF*
Safety and efficacy of vertebroplasty: Early results of a prospective one-year case series of osteoporosis patients in an academic high-volume center. Indian J Orthop. 2009;43:228-33.

Dudda M, Albers C, Mamisch TC, Werlen S, *Beck M*
Do normal radiographs exclude asphericity of the femoral head-neck junction? Clin Orthop Relat Res. 2009 Mar;467(3):651-9.

Ganz R, Huff TW, Leunig M
Extended retinacular soft-tissue flap for intra-articular hip surgery: surgical technique, indications, and results of application. Instr Course Lect. 2009;58:241-55.

Gerber C, Meyer DC, Frey E, von Rechenberg B, Hoppeler H, Frigg, Jost B, *Zumstein MA*
Neer Award 2007: Reversion of structural muscle changes caused by chronic rotator cuff tears using continuous musculotendinous traction. An experimental study in sheep. J Shoulder Elbow Surg. Mar-Apr 2009;18(2):163-71.

Gerber C, Pennington SD, *Nyffeler RW*
Reverse total shoulder arthroplasty. J Am Acad Orthop Surg. 2009 May;17(5):284-95.

Hartel MJ, Loosli Y, Gralla J, *Kohl S,* Hoppe S, *Röder C, Eggli S*
The mean anatomical shape of the tibial plateau at the knee arthroplasty resection level. An investigation using MRI. Knee. 2009 Dec;16(6):452-7.

Heini PF, Pfäffli S
Zementaugmentation bei Wirbelmetastasen (Vertebro- und Kyphoplastie). [Cement injection for spinal metastases (vertebroplasty and kyphoplasty).] Orthopade. 2009 Apr;38(4):335-42.

Keel M, Härter L, Reding T, Sun LK, Hersberger M, Seifert B, Bimmler D, Graf R
Pancreatic stone protein is highly increased during posttraumatic sepsis and activates neutrophil granulocytes. Crit Care Med. 2009 May;37(5):1642-8.

Kohl S, Krueger A, Roeder C, Hartel M, Kohlhof H, Schneider C, *Eggli S*
An aluminium mold for intraoperative production of antibiotic-loaded PMMA knee prostheses. Acta Orthop. 2009 Jun;80(3):389-91.

Krause FG, deVries G, Meakin C, Kalla TP, Younger AS
Outcome of transmetatarsal amputations in diabetics using antibiotic beads. Foot Ankle Int. 2009 Jun;30(6):486-93.

Krause FG, *Haupt U*, *Ziebarth K*, Slongo T
Mini-arthrotomy for lateral discoid menisci in children. J Pediatr Orthop. 2009 Mar;29(2):130-6.

Labler L, Rancan M, Mica L, Härter L, Mihic-Probst D, *Keel M*
Vacuum-assisted closure therapy increases local interleukin-8 and vascular endothelial growth factor levels in traumatic wounds. J Trauma. 2009 Mar;66(3):749-57.

Mamisch TC, Kim YJ, Richolt JA, Millis MB, Kordelle J
Femoral morphology due to impingement influences the range of motion in slipped capital femoral epiphysis. Clin Orthop Relat Res. 2009 Mar;467(3):692-8.

Mamisch TC, Kim YJ, Richolt J, Zilkens C, Kikinis R, Millis M, Kordelle J
Range of motion after computed tomography-based simulation of intertrochanteric corrective osteotomy in cases of slipped capital femoral epiphysis: comparison of uniplanar flexion osteotomy and multiplanar flexion, valgisation, and rotational osteotomies. J Pediatr Orthop. 2009 Jun;29(4):336-40.

Mamisch TC, Werlen S, Zilkens C, Trattnig S, Kim YJ, *Siebenrock KA, Bittersohl B*
Radiologische Diagnose des femoroazetabulären Impingements. [Radiological diagnosis of femoroacetabular impingement.] Radiologe. 2009 May;49(5):425-33.

Mamisch TC, Zilkens, C, *Siebenrock KA, Bittersohl B,* Kim YJ, Werlen S
MRI of hip osteoarthritis and implications for surgery. Radiol Clin North Am. 2009 Jul;47(4):713-22.

Mamisch TC, Zilkens, C, *Siebenrock KA, Bittersohl B,* Kim YJ, Werlen S
Hip MRI and its implications for surgery in osteoarthritis patients. Rheum Dis Clin North Am. 2009 Aug;35(3):591-604.

Mayich DJ, Younger A, *Krause F*
The reverse Silfverskiöld test in Achilles tendon rupture. CJEM. 2009 May;11(3):242-3.

Montjovent MO, Bocelli-Tyndall C, Scaletta C, Scherberich A, Mark S, Martin I, Applegate LA, Pioletti DP
In vitro characterization of immune-related properties of human fetal bone cells for potential tissue engineering applications. Tissue Eng Part A. 2009 Jul;15(7):1523-32.

Neumann M, Cui Q, *Siebenrock KA, Beck M*
Impingement-free hip motion: the 'normal' angle alpha after osteochondroplasty. Clin Orthop Relat Res. 2009 Mar;467(3):699-703.

Röder C, Staub L, Dietrich D, Zweig T, Melloh M, Aebi M
Benchmarking with Spine Tango: potentials and pitfalls. Eur Spine J. 2009 Aug;18 Suppl 3:305-11.

Schoeniger R, Espinosa N, Sierra RJ, Leunig M, *Ganz R*
Role of the extraosseous blood supply in osteoarthritic femoral heads? Clin Orthop Relat Res. 2009 Sep;467(9):2235-40.

Sckell A, *Klenke FM*
The cranial bone window model: studying angiogenesis of primary and secondary bone tumors by intravital microscopy. Methods Mol Biol. 2009;467:343-55.

Steppacher SD, Tannast M, Zheng G, Zhang X, Kowal J, Anderson SE*, Siebenrock KA,* Murphy SB
Validation of a new method for determination of cup orientation in THA. J Orthop Res. 2009 Dec;27(12):1583-8.

Tannast M, Ecker TM, Murphy SB
Second-generation uncemented stems: excellent 5-13-year results. Arch Orthop Trauma Surg. 2009 Dec;129(12):1691-700.

Tannast M, Siebenrock KA
Conventional radiographs to assess femoroacetabular impingement. Instr Course Lect. 2009;58:203-12.

Tannast M, Siebenrock KA
Die operative Behandlung der Azetabulum-T-Fraktur über eine chirurgische Hüftluxation oder einen Stoppa-Zugang. [Operative treatment of T-type fractures of the acetabulum via surgical hip dislocation of Stoppa approach.] Oper Orthop Traumatol. 2009 Sep;21(3):251-69.

Trattnig G, Burstein D, Szomolanyi P, Pinker K, Welsch GH, *Mamisch TC*
T1 (Gd) gives comparable information as Delta T1 relaxation rate in dGEMRIC evaluation of cartilage repair tissue. Invest Radiol. 2009 Sep;44(9):598-602.

Weiss S, Zimmermann G, Pufe T, Varoga D, *Henle P*
The systemic angiogenic response during bone healing. Arch Orthop Trauma Surg. 2009 July;129(7):989-97.

Welsch GH, Trattnig S, Domayer S, Marlovits S, White LM, *Mamisch TC*
Multimodal approach in the use of clinical scoring, morphological MRI and biochemical T2-mapping and diffusion-weighted imaging in their ability to assess differences between cartilage repair tissue after microfracture therapy and matrix-associated autologous chondrocyte transplantation: a pilot study. Osteoarthritis Cartilage. 2009 Sep;17(9):1219-27.

Zheng G, Zhang X, *Steppacher SD*, Murphy SB, *Siebenrock KA, Tannast M*
HipMatch: An object-oriented cross-platform program for accurate determination of cup orientation using 2D-3D registration of single standard X-ray radiograph and a CT volume. Comput Methods Programs Biomed. 2009 Sep;95(3):236-48.

Ziebarth K, Zilkens C, Spencer S, Leunig M, *Ganz R*, Kim YJ
Capital realignment for moderate and severe SCFE using a modified Dunn procedure. Clin Orthop Relat Res. 2009 Mar;467(3):704-16.

Zilkens C, Jäger M, *Bittersohl B, Dudda M,* Millis MB, Kim YJ, Muhr G, Krauspe R, *Mamisch TC*
Delayed gadolinium enhanced MRI of cartilage (dGEMRIC): Molekulare MRT-Bildgebung des Hüftgelenkknorpels. [Delayed gadolinium enhanced MRI of cartilage (dGEMRIC). Molecular MRI of hip joint cartilage.] Orthopade. 2009 Jul;38(7):591-99.

Zumstein M, Hahn F, Sukthankar A, Sussmann PS, Dora C
How accurately can the acetabular rim be trimmed in hip arthroscopy for pincer-type femoral acetabular impingement: a cadaveric investigation. Arthroscopy. 2009 Feb;25(2):164-8.

Zweig T, Mannion AF, Grob D, Melloh M, Munting E, Tuschel A, Aebi M, *Röder C*
How to tango: a manual for implementing Spine Tango. Eur Spine J. 2009 Aug;18 Suppl 3:312-20.

Originalarbeiten Kollaborationen

Benninger E, Laschke MW, Cardell M, *Keel M*, Seifert B, Trentz O, Menger MD, Meier C
Intra-abdominal pressure development after different temporary abdominal closure techniques in a porcine model. J Trauma. 2009 Apr;66(4):1118-24.

Boger A, *Benneker LM*, Krebs J, Boner V, *Heini PF*, Gisep A
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