

Jahresbericht 2006

UNIVERSITÄTSKLINIK FÜR ORTHOPÄDISCHE CHIRURGIE INSELSPITAL BERN

Personelles		
Funktion	Name	Fachbereich
Klinikdirektor und Chefarzt	Prof. Dr. K.-A. Siebenrock	
Stv. Chefarzt	PD Dr. P. Heini	
Leitender Arzt	PD Dr. S. Eggli	
Teamleiter	Prof. Dr. K.-A. Siebenrock PD Dr. M. Beck, stv. PD Dr. P. Heini PD Dr. S. Eggli Dr. M. Weber Dr. R. Nyffeler	Hüfte, Becken, Tumorchirurgie Wirbelsäule Knie und Sportverletzungen Sprunggelenk und Fuss Obere Extremität, Skelett- und Weichteilrekonstruktion
Oberärzte	Dr. L. Benneker Dr. H. Burmeister Dr. U. Haupt Dr. F. Krause Dr. R. Läubli Dr. O. Lehmann Dr. D. Sägesser Dr. U. Seidel Dr. M. Stucki	
Assistenzärzte	Dr. N. Armsen Dr. L. Büchler Dr. B. Banic Dr. C. Cremer Dr. L. Frauchiger Dr. S. Gathmann Dr. D. Goricki Dr. F. Hahn Dr. P. Henle Dr. M. Kleinschmidt	

	Dr. S. Kohl Dr. A. Krüger Dr. O. Mini Dr. M. Neumann Dr. M. Röthlisberger Dr. A. Schallberger Dr. M. Schürch Dr. H.-J. Sebald Dr. M. Tannast Dr. D. Völkle Dr. P. Wildisen Dr. S. Wunderlich Dr. K. Ziebarth Dr. M. Zumstein	
Wissenschaftliche Assistenzärzte	Dr. M. Hartel Dr. F. Klenke (DKF) Dr. U. Lange Dr. T.C. Mamisch Dr. S. Steppacher	
Sekretariat Direktor Geschäftsleitung Departement DOPH Pflegeleitung OPS Pflegeleitung Klinik Fotolabor	S. Bonacina K. Hostettler Ch. Matzner E. Müller G. Huber	

Dienstleistung				
Operationen 2006				
Stationäre Eingriffe	2003	2004	2005	2006
Wirbelsäule	1'045	1'129	1'187	1'120
Schultergürtel	321	342	362	345
Oberarm, Humerusschaft	32	37	47	58
Ellbogen	129	96	112	70
Unterarm, Ulna-, Radiuschaft	107	77	75	61
Handgelenk, distaler Radius	60	81	67	94
Beckengürtel, Hüfte	743	750	694	637
Oberschenkel, Femurschaft	169	140	153	181
Kniegelenk	451	540	627	734
Unterschenkel, Tibia-, Fibulaschaft	224	174	175	195
Sprunggelenk, Fusswurzel	135	140	168	165
Fuss	484	469	431	417
Total	3'900	3'975	4'098	4'077
Klinik	2003	2004	2005	2006
Patienten inkl. Tagesklinik	2'698	2'851	2'777	2'796
Pflegetage insgesamt	21'030	21'525	21'523	21'150
Durchschnittlicher Spitalaufenthalt Tage	8.3	8.0	8.3	8.17
Durchschnittliche Bettenbelegung	82.3%	84.2%	84.2%	83.60
Zahl der durchschnittlich betriebenen Betten	66.5	69.2	70	70
Gesamtbettenzahl	70	70	70	70

Polikliniken		2003	2004	2005	2006
Becken, Hüfte	Neue Patienten	447	432	400	384
	Kontrollen	1'897	1'848	1'689	1'864
Fuss	Neue Patienten	411	423	411	380
	Kontrollen	1'357	1'257	1'180	1'228
	Kontrollen im Gipszimmer	859	713	581	649
Knie	Neue Patienten	378	361	406	447
	Kontrollen	1'506	1'370	1'547	1'702
Obere Extremität	Neue Patienten	511	426	264	251
	Kontrollen	1'377	1'396	1'464	1'650
Wirbelsäule	Neue Patienten	721	649	659	790
	Kontrollen	1'603	1'558	1'842	1'846
Polikliniken Total	Neue Patienten	2'468	2'291	2'140	2'252
	Kontrollen	8'599	8'142	8'303	8'939

Kinderorthopädie	2003	2004	2005	2006
Kinderorthopädie Wirbelsäulensprechstunde	139	144	141	120

Zentrale Gipsabteilung	2003	2004	2005	2006
Total Konsultationen	5'056	4'297	3'972	3'909

Forschung und Lehre

Preise und Ehrungen

First prize best presentation of 49, annual European Skeletal Society Conference: ESSR/ISS prize.

Watanabe A, Boesch C, Siebenrock KA, Obata T, Anderson SE.

T2 of hip articular cartilage in healthy volunteers at 3T, a study of topographic variation.

European Society of Skeletal (ESSR) annual meeting at Brugges, Belgium 2006.

Top 3 Award of Excellence

Beaule PE, Campbell PA, Lu Z, Beck M, Leunig M, Thomas BJ, Ganz R.

SE10 Vascularity of the Arthritic Femoral Head and Its Implications in Resurfacing Arthroplasty of the Hip.

3. Posterpreis beim 65. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie (SGO), Luzern, 2006.

Kohl S, Krüger A, Tannast M, Stauffer E, Beck M, Siebenrock KA.

Histopathologische Analyse der Acetabulären Knorpelveränderungen beim Femoroacetabulären Impingement.

New England Baptist Research Award, Boston

Tannast M, Murphy SB, Ecker TM.

Charles S. Neer Award in the Basic Science category of the American Shoulder and Elbow Society (ASES)

Zumstein MA.

Reversion of the Musculotendinous Architecture in Experimental Chronic Rotator Cuff Tears by Continuous Traction. An In Vivo Study in the Sheep.

Drittmittel

Schweizerischer Nationalfonds (SNF) Nr. 5005-66380

Gonzalez Ballester MA, Nolte LP, Székeley G, Olson S, *Siebenrock KA*, Grützner P, Rüfenacht D, Chopard B.

Computer Assistance in Orthopaedic Surgery. National Center of Competence in Research CO-ME (Computer Aided and image guided medical inventions), Phase II

CHF 262 250.—

Dauer: 2005 – 2008

Schweizerischer Nationalfonds (SNF) Nr. 32000-111949/1

Siebenrock KA, *Mamisch TC*, von Rechenberg B.

Staging and grading of femuro-acetabular impingement in an experimental sheep model based on MRI.

CHF 98'475.—

Dauer: 2006-2007

Schweizerischer Nationalfonds (SNF) NFP 53 Nr. 405340-104531

Anderson S, *Heini PF*.

Frühzeitige Diagnose des Schleudertraumas mit hochauflösender Magnetresonanztomographie.

CHF 412'528.—

Dauer: 2006-2008

Schweizerischer Nationalfonds (SNF) Nr. 320-113424/1

Zumstein M.

Genetic Markers of Pathological Changes in Rotator Cuff Muscles after TendonTear as a Basis for the Development of new Treatment Strategies.

CHF 377'000.—

Dr. H.C. Robert Mathys Stiftung, Bettlach

Hartel M.

Project E06_0011 / Tibiakontour; Die anatomische Normvariante des Tibiaplateaus – Korrelation gemittelter Tibiaplateau-Silhouetten in 0 und 5¼, Untersuchungen zur axialen Rotationsstellung.

CHF: 4000.—

Dauer: 2006-2007

Dr. H.C. Robert Mathys Stiftung, Bettlach

Hartel M.

Project E06_0012 / Biospacer; Biospacer – Evaluation von Polyurethanen mit knorpel-ähnlichen mechanischen Eigenschaften zur Therapie von arthrotischen Gelenken.

CHF: 20'000.—

Dauer: 2006-2007

Dr. H.C. Robert Mathys Stiftung, Bettlach

Heini PF.

OPRIFIX: Biomechanische Evaluation zementierter Pedikelschrauben

CHF 50'000.—

Dauer: 2004 – 2007

AO-Foundation, Davos

Heini PF

Prospektive Studie Vertebroplastik

CHF 50'000.-

Dauer: 2006-2009

AO/ASIF grant

Kurth T, Siebenrock K.A.

Chondrogenic differentiation of adult human hip synovial stem cells for the repair of articular cartilage lesions in this joint.

CHF 117'844.—

Dauer: 2005 – 2006

AO Research Fund: 05-K82

Klenke F.

Development of biomaterial - growth factor constructs for the use as bone substitutes."

Principle Investigator: Frank Klenke, Co-investigator: Wilhelm Hofstetter

CHF 111'954.—

Dauer: 2005-2007

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.

Dauer: 2006-2008

Genentech research contracts and reagents program

Klenke F.

Promoting the vascularization of bone substitutes: A new biomaterial coating technique for the administration of the angiogenic growth factor VEGF.

CHF 242'500.— (provision of rhVEGF 165)

Dauer: 2005-2007

Qualidoc AG, Bern; e-mediat AG, Schönbühl

Eggli S, Hartel M.

KTI-Projekt: Elektronische Verordnung e-med.

CHF 1.4 Mio.

Dauer: 2005 – 2007

New England Baptist Hospital, Research Funding Award Program

Murphy SB, *Tannast M.*

Femoroacetabular Impingement: Validation of a New Non-Invasive Clinical Test for Range of Motion and Impingement Prediction.

Project in collaboration with Stephen B. Murphy, Harvard Medical School, Boston and the M.E. Müller Research Center for Orthopaedic Surgery, Berne (Switzerland). In Vivo validation of a previously developed method for range of motion analysis and impingement simulation.

US\$ 70'000.—

Dauer: 2005-2006

Universität Bern (Hochschulstiftung)

Siebenrock KA, Tannast M, Langlotz F.

Computer-Assisted Minimally Invasive Treatment of Femoroacetabular Impingement.

Project in collaboration with the M.E. Müller Research Center for Orthopaedic Surgery, Institute for Surgical Technologies and Biomechanics: Development of a comprehensive surgical navigation system for minimally invasive treatment of femoroacetabular impingement.

CHF 16' 328.—

Dauer: 2006 – 2008

DKF / Universität Bern

Krause F.

MRI OSG bei Hohlfuss

CHF 7'752.—

Dauer: 2006 - 2007

Suva-Fonds

Siebenrock KA, Kreutziger J.

Wirken Vitamin C und E präventiv hinsichtlich Sudeck-Dystrophie der oberen Extremitäten?

CHF 90'534.—

Dauer: 2006-2007

Schweizerische Gesellschaft für Orthopädie (SGO)

Krause F.

Biomechanische Hohlfuss Studie

CHF 20'000.—

Dauer: 2006 - 2007

SYNOS Foundation

Krause F.

Biomechanische Hohlfuss Studie

CHF 80'000.—

Dauer: 2006 - 2007

SYNOS Foundation

Zumstein M.

Reversion of Structural Muscular Changes Caused by Chronic Rotator Cuff Tendon Tearing Using Continuous Musculotendinous Traction: An Experimental Study in the Sheep.

CHF 135'420.—

Synthes

Heini PF.

Wissenschaftliche Mitarbeiter Wirbelsäulenchirurgie

CHF 100'000.—

Stipendien

Heini PF.

Klinisches Fellowship Wirbelsäulenchirurgie

CHF 70'000.— p.a. bis auf weiteres (AO Spine)

Siebenrock KA.

Klinisches AO International Fellowship

CHF 4'000.— (für 8 Wochen)

Dissertationen

Fiechter R.

Am Schafmodell reproduziertes femoroacetabuläres Impingement, häufigste Ursache der frühen Osteoarthritis beim nichtdysplastischen Hüftgelenk des Menschen.

Inaugural dissertation an der Vetsuisse-Fakultät Universität Zürich 2006;

Co-Betreuung PD Dr. B. v. Rechenberg. (Leitung K.A. Siebenrock)

Haupt U.

Beeinflussung der Akute-Phase-Reaktion durch die Vakuumversiegelung bei Sprunggelenksfrakturen. Universität Ulm (Deutschland) Feb. 2006

Hirt I.

Das Wachstum des Schenkelhalses nach Epiphysiolysis capitis femoris.

Inauguraldissertation an der Medizinischen Fakultät der Universität Bern, 18. 10. 2006.
(Leitung K.A. Siebenrock)

Krüger A.

Die Migration von unzementierten Hüftendoprothesen. Eine EBRA – Vermessung von SL – Plus Frakturkopfprothesen.

Inauguraldissertation an der Medizinischen Fakultät der Universität Bern, 18. 10. 2006.
(Leitung K.A. Siebenrock)

Siming LI.

Os Acetabuli. A retrospective analysis in hips with acetabular dysplasia and in hips with femoro-acetabular impingement. Bern, 5.4.2006. (Leitung M. Beck)

Originalarbeiten In-House

Martinez AE, Li SM, Ganz R, Beck M.

Os acetabuli in femoro-acetabular impingement: stress fracture or unfused secondary ossification centre of the acetabular rim? Hip International. 2006 16: 281-286.

Heini PF.

Osteoporose der Wirbelsäule. Revue Médicale Suisse, Januar 2006.

Orler R, Frauchiger LH, Lange U, Heini PF.

Lordoplasty: Report on early results with a new technique for the treatment of vertebral compression fractures to restore the lordosis. European Spine Journal, 2006.

Heini PF.

Comment on Transpedicle body augments in painful osteoporotic compression fractures.
European Spine Journal, September 2006.

Proschek D, Orlor R, Stauffer E, *Heini PF.*

Monostotic fibrous dysplasia of the spine: report of a case involving a cervical vertebra.
Archives of Orthopaedic and Traumatic Surgery, September 2006.

Beckmann J, Ferguson SJ, Gebauer M, Luering C, Gasser B, *Heini PF.*

Femoroplasty – augmentation of the proximal femur with a composite bone cement –
feasibility, biomechanical properties and osteosynthesis potential.
Medical Engineering & Physics, Oktober 2006.

Klenke FM, Merkle T, Gehrad MM, Ewerbeck V, Sckell A.

The selective Cox-2 inhibitor Celecoxib inhibits angiogenesis and growth of secondary bone
tumors *in vivo*. BMC Cancer, 6: 9, 2006. (IP: 2.290, MR: 0.520)

Krause F, Kolling C, Brantschen R, Sieber H-P.

Mittelfristige Ergebnisse des Vastus medialis obliquus-Plastik bei lateraler Patellaluxation.
Orthopaede 2006. Jan;35:94-100. (IF: 0.495, MR: 0.220)

Nyffeler RW, Sheikh R, Atkinson TS, Jacob HA, Favre P, Gerber C.

Effects of glenoid component version on humeral head displacement and joint reaction forces:
an experimental study. J Shoulder Elbow Surg. 2006 Sep-Oct;15(5):625-9. (IF: 0.729, MR:
0.386)

Nyffeler RW, Werner CM, Sukthankar A, Schmid MR, Gerber C.

Association of a large lateral extension of the acromion with rotator cuff tears. J Bone Joint
Surg Am. 2006 Apr;88(4):800-5. (IF: 2.339, MR: 0.927)

Nyffeler RW, Meyer D, Sheikh R, Koller BJ, Gerber C.

The effect of cementing technique on structural fixation of pegged glenoid components in total
shoulder arthroplasty. J Shoulder Elbow Surg. 2006 Jan-Feb;15(1):106-11. (IF: 0.729, MR:
0.386)

Siebenrock KA, Gautier E, Ziran BH, Ganz R.

Trochanteric flip osteotomy for cranial extension and muscle protection in acetabular fracture fixation using a Kocher-Langenbeck approach. J Orthop Trauma. 2006 20(1 Suppl): S52-6, Journal Article. (IF : 0.902)

Wagner S, Hofstetter W, Chiquet M, Mainil-Varlet P, Stauffer E, Jansson V, Siebenrock KA.
Femoral-acetabular impingement: a pre-arthrotic deformity? Z Orthop Ihre Grenzgeb. 2006 May-Jun;144(3):248-51.

Tannast M, Murphy SB, Langlotz F, Anderson SE, Siebenrock KA.

Estimation of pelvic tilt on anteroposterior x-rays – a comparison of six parameters. Skeletal Radiol 35:149-155, 2006.

Tannast M, Kubiak-Langer M, Ecker TM, Puls M, Murphy SB, Langlotz F, Siebenrock KA.
Preoperative non-invasive assessment of hips with femoroacetabular impingement. J Biomech 39 Suppl 1, S. 571, 2006.

Murphy SB, Ecker TM, Tannast M.

Two to eight year clinical results of Alumina ceramic-on-ceramic THA, In Press, Clin Orthop Relat Res, 2006, Dec;453:97-102.

Murphy SB, Ecker TM, Tannast M.

THA performed using conventional and navigated tissue-preserving techniques. Clin Orthop Relat Res, 2006, Dec;453:160-167.

Murphy SB, Tannast M.

Conventional vs. minimally invasive total hip arthroplasty – A prospective study of rehabilitation and complications. Der Orthopäde, 2006, Jul;35(7):761-768.

Min K, Hahn F, Ziebarth K.

Short anterior correction of the thoracolumbar/lumbar curve in King 1 idiopathic scoliosis: the behaviour of the instrumented and non-instrumented curves and the trunk balance. Eur Spine J. 2007;Jan;16(1):65-72. Epub 2006 Mar 17.

Zumstein MA, Sukthankar A, Exner GU.

Tripartite patella: late appearance of a third ossification center in childhood. J Pediatr Orthop B. 2006. 15(1): 75-6. (IF 0.454, MR 0.171)

Zumstein MA, Frauchiger L, Wyss D, Hess R, Ballmer PM.

Is Femoral Navigation sufficient for accurate Total Knee Arthroplasty? Clin Orthop Rel Res. 2006 Oct; 451:80-6. (IF 1.528, MR 0.707)

Zumstein MA, Naeder H, Gerber C, Jost B.

Shoulder Arthroplasty and Sports. Schweiz. Zeitschrift für Sportoporthopädie und Sporttraumatologie, 2006, 1;6-12. (IF 0.255, MR 0.129)

Gerber C, Pennington SD, Yian EH, Pfirrmann CA, Werner CM, Zumstein MA.

Lesser tuberosity osteotomy for total shoulder arthroplasty. Surgical technique. J Bone Joint Surg Am. 2006 Sep;88 Suppl 1 Pt 2:170-7. (IF 2.339, MR 0.927)

Originalarbeiten Kollaborationen

Leunig M, Beck M, Dora C, Ganz R. Femoroacetabular impingement: Trigger for the development of osteoarthritis. Orthopäde 2006, 35:77-84. (IF 0.495, R 33/41)

Meyer DC, Beck M, Ellis T, Ganz R, Leunig M. Comparison of Six Radiographic Projections to Assess Femoral Head/Neck Asphericity. Clin Orthop Relat Res. 2006, 445: 181-5. (IF 1,528, R 13/41)

Stabe-Heyl J, Slongo T, Beck M, Ganz R. Bilateral post-traumatic acetabular dysplasia. Orthopäde. 2006 Mar 15; Epub ahead of print German. (IF 0.495, R 33/41)

Espinosa N, Rothenfluh DA, Beck M, Ganz R, Leunig M.

Treatment of femoro-acetabular impingement: preliminary results of labral refixation. J Bone Joint Surg 2006, 88-A: 925-35. (IF 2,339, R 4/41)

Murphy SB, Ecker TM, *Tannast M*, Bierbaum B, Garino J, Howe J, Hume E, Jones R, Keggi K, Kress K, Zann R.

US-Experience with ceramic-ceramic THA. *Semin Arthroplasty*, 2006, Sep;17(3):120-124.

Dora C, Leunig M, *Beck M*, Simovitch R, Ganz R.

Acetabular dome retroversion: radiological appearance, incidence and relevance. *Hip International* 2006, 16: 215-22.

Beaule PE, Campbell P, Lu Z, Leunig-Ganz K, *Beck M*, Leunig M, Ganz R.

Vascularity of the arthritic femoral head and hip resurfacing. *J Bone Joint Surg Am.* 2006, 88-A Suppl 4:85-96. (IF 2,339, R 4/41)

Kickuth R, Anderson S, Peter-Salonen K, Lämmle B, *Eggli S*, Triller J.

Hemophilia A pseudoaneurysm in a patient with high responding inhibitors complicating total knee arthroplasty embolization: a cost-reducing alternative to medical therapy. *Cardiovasc Inter Rad*, 29(6):1132-35, 2006. Journal Article. (IF: 2.675)

Röder C, Staub LP, Eichler P, Widmer M, Dietrich D, *Eggli S*, Müller U.

Avoiding misclassification bias with the traditional Charnley classification: rationale for a fourth Charnley class BB. *J Orthop Res*, 24(9):1803-8, 2006. Journal Article. (IF 2.916)

Boger A, *Heini PF*, Böhner M, Schneider E.

Vertebralk Cancellous Bone Augmented with Stiffness-adapted PMMA Cement does not show acute failure under dynamic loading. *ECM-Journal*, Vol. 11, 2006.

Hulme PA, *Heini PF*, Persson T, Spengler H, Björklund K, Hermansson L, Ferguson SJ.

Mechanical evaluation of a bioactive calcium aluminate cement for vertebral body augmentation. *ECM-Journal*, Vol 11, 2006.

Loeffel M, Kowal J, *Heini PF*, Burger J, Nolte L-P.

Development of an advanced injection device for highly viscous materials. *ECM-Journal*, Vol. 11, 2006.

Klestil T, Biedermann R, *Kruger A*, Gfoller P, Schmoelz W, Rangger C, Krismer M, Blauth M. Cementless hemiarthroplasty in femoral neck fractures: evaluation of clinical results and measurement of migration by EBRA-FCA. Arch Orthop Trauma Surg. 2006 Mar 24.

(IF 0.678, MR 0.341)

Locher S, *Burmeister H*, Böhlen T, Eichenberger U, Stoupis C, Moriggi B, *Siebenrock KA*, Curatolo M.

Radiological anatomy of the obturator nerve and articular branches: basis to develop a method for radiofrequency denervation for hip joint pain. European Journal of Pain 10:S136-137, 2006.

Schoeniger R, Naudie DD, *Siebenrock KA*, Trousdale RT, Ganz R.

Modified complete synovectomy prevents recurrence in synovial chondromatosis of the hip. Clin Orthop Relat Res. 2006 Oct; 451:195-200.

Kickuth R, Anderson SE, Kocovic L, Ludwig K, *Siebenrock KA*, Triller J.

Endovascular treatment of arterial injury as an uncommon complication following orthopedic surgery. J Vasc Interv Radiol 17:791-799, 2006.

Jost B, *Zumstein MA*, Pfirrmann CWA, Gerber C.

Long-term outcome after structural failure of rotator cuff repairs. J Bone Joint Surg Am. 2006 Mar;88(3):472-9. (IF 2.339, MR 0.927)

Übrige Publikationen

Heini PF, Orler R, Boszczyk B.

Percutaneous Vertebroplasty and Kyphoplasty. Balloon Kyphoplasty and Lordoplasty. Springer, 2006

Heini PF, Franz T.

Percutaneous Vertebroplasty and Kyphoplasty. Femoral Neck Augmentation. Springer, 2006.

Lange U, Heini PF, Gössling T, Hüfner T, Seidel U, Krettek C.

Was gibt es Neues in der Chirurgie? Berichte zur chirurgischen Fort- und Weiterbildung.

Was gibt es Neues in der Wirbelsäulenchirurgie? Ecomed Medizin, Jahresband 2006.

Klenke FM, Liu Y, Siebenrock KA, Hofstetter W.

The biological properties of calcium phosphate bone substitutes are influenced by the biomaterials' pore size. EORS Transactions, Vol. 16: O86.

Nyffeler RW.

Die knöcherne Bankart Läsion und Instabilität. In: Spezialgebiete aus der Schulter- und Ellenbogenchirurgie 2; S. 200-03; Hrsg. Ulrich H. Brunner, Steinkopff Verlag, Darmstadt.

Nyffeler RW, Werner CML, Sukthankar A, Schmid MR, Gerber C.

Association of a large lateral extension of the acromion with rotator cuff tears. J Bone Joint Surg 88-A:1889-90; 2006.

Tannast M, Kubiak-Langer M, Ecker T M, Murphy SB, Langlotz F, Siebenrock KA.

Hip joint damage occurs at the impingement zone of femoroacetabular impingement: a computer-assisted study. In F. Langlotz, B.L. Davies, R.E. Ellis (eds). Computer Assisted Orthopaedic Surgery, ProBusiness, Berlin, Germany, pp. 528-531, 2006.

Tannast M, Kubiak-Langer M, Murphy SB, Ecker TM, Puls M, Langlotz F, Siebenrock KA.

Computer-assisted simulation of femoroacetabular impingement surgery – Concept and preliminary clinical results. In: Stiehl, Konermann, Haaker, DiGioia (Eds): Navigation and MIS in Orthopaedic Surgery, pp. 440-447, 2006.

Tannast M, Siebenrock KA.

Femoral osteotomy. In Hozack WJ (ed). Surgical Treatment of Hip Arthritis: Reconstruction, Replacement, Revision. Elsevier, Philadelphia, 2006. In Press.

Ecker TM, Tannast M, Murphy SB, Kubiak-Langer M, Langlotz F, Siebenrock KA.

Three-dimensional analysis of range of motion and virtual debridement in patients with femoroacetabular impingement. In F. Langlotz, B.L. Davies, R.E. Ellis (eds). Computer Assisted Orthopaedic Surgery, ProBusiness, Berlin, Germany, pp. 141-145, 2006.

Zumstein MA, Meyer DC, Frey E, von Rechenberg B, Hoppeler, H, Frigg R, Jost B, Gerber C. Experimental in vivo muscle traction for Reversion of the Architecture of the musculotendinous unit subsequent to chronic Rotator cuff tear. Ulrich H. Brunner (Publ.). Spezialgebiete aus der Schulter- und Ellenbogenchirurgie 2, 2006 im Steinkopff Verlag, Darmstadt.

Abstracts

Beck M.

Ursache und Behandlungsstrategien beim jungen Erwachsenen mit Leistenschmerzen. Revue médicale Suisse 2006, 2: S80-81.

Boger A, Bohner M, *Heini PF*, Schneider E.

Wirbelkörperspongiosabiopsien augmentiert mit porösem Knochenzement zeigen kein akutes Versagen unter dynamischer Kompression. Deutscher Kongress für Orthopädie und Unfallchirurgie, 02.-06.10.2006, Berlin/Deutschland

Klenke FM, Liu Y, Siebenrock KA, Hofstetter W.

The pore size is a structural paramter which influences the biological properties of bone substitute materials. Swiss Medical Forum, Suppl. 32:RE8.

Locher S, *Burmeister H*, Böhlen T, Eichenberger U, Stoupis C, Moriggi B, *Siebenrock KA*, Curatolo M.

Radiological anatomy of the obturator nerve and articular branches: basis to develop a method fo radiofrequency denervation for hip joint pain. European Journal of Pain 10:S136-137, 2006.

Tannast M, Kubiak-Langer M, Ecker TM, Murphy SB, Langlotz F, *Siebenrock KA*.

Joint damage occurs at the impingement zone of femoroacetabular impingement: a computer-assisted study. In F. Langlotz, B.L. Davies, R.E. Ellis (eds). Computer Assisted Orthopaedic Surgery, ProBusiness, Berlin, Germany, pp. 528-531, 2006.

Ecker TM, *Tannast M*, Murphy SB, Kubiak-Langer M, Langlotz F, *Siebenrock KA*.

Three-dimensional analysis of range of motion and virtual debridement in patients with femoroacetabular impingement. In F. Langlotz, B.L. Davies, R.E. Ellis (eds). Computer Assisted Orthopaedic Surgery, ProBusiness, Berlin, Germany, pp. 141-145, 2006.

Tannast M, Kubiak-Langer M, Ecker TM, Puls M, Murphy SB, Langlotz F, *Siebenrock KA*.

Preoperative non-invasive assessment of hips with femoroacetabular impingement. J Biomech 39 Suppl 1, S. 571, 2006.

Anderson SE, *Tannast M*, *Siebenrock KA*.

Imaging of femoro-acetabular impingement. Musculoskeletal Keynote Speaker Lecture. Proceedings of the 91st Scientific Assembly and Annual Meeting of the Radiological Society of North America (RSNA), p. 43, 2005.

Tannast M, Kubiak-Langer M, Ecker T M, Murphy SB, Langlotz F, *Siebenrock KA*.

Hip joint damage occurs at the impingement zone of femoroacetabular impingement – a computer-assisted study. In F. Langlotz, B.L. Davies, R.E. Ellis (eds). Computer Assisted Orthopaedic Surgery, pp. 528-531, 2006, ProBusiness, Berlin, Germany.

Murphy SB, Ecker TM, *Tannast M*.

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Lehmann O, Sägesser D, Krause F, Weber M.

Osteosynthese von intraartikulären Calcaneusfrakturen. 65. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie (SGO), 21.09.2006, Luzern, Schweiz.

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Day of Clinical Research, University of Berne, 15. 11. 2006. Department of Orthopedic Surgery, Inselspital, University of Bern. Department of Radiology, Sonnenhof Clinic, Bern.

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Total hip arthroplasty performed using conventional and tissue-preserving computer assisted techniques. 6th Annual Meeting of CAOS-International, Montreal, Canada, June 21-24, 2006.

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Frizzled- and Wnt-mRNA expression in fatty infiltration of rotator cuff muscles may contribute to adipogenesis after tendon tear (Swiss National Science Foundation grant No 320-113424/1). 20th Congress of the European Society for Surgery of the Shoulder and Elbow, Athens, Greece.

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The role of skeletal muscle specific markers in degenerative muscular changes after rotator cuff tendon rupture. (Swiss National Science Foundation grant No 320-113424/1). Annual Meeting of the Swiss Society of Orthopedic Surgeons, Lucerne Switzerland.

Vorträge

Beck M.

Vascular Anatomy of the Acetabulum. AO ASIF Symposium on Surgical Preservation of the Hip 10.-13.1.06, Mammoth Lakes, California.

Beck M.

Damage Pattern in "Cam" and the "Pincer" FAI. AO ASIF Symposium on Surgical Preservation of the Hip 10.-13.1.06, Mammoth Lakes, California

Beck M.

Outcome of FAI treatment. Bernese Technique. AO ASIF Symposium on Surgical Preservation of the Hip 10.-13.1.06, Mammoth Lakes, California

Beck M.

Ursache und Behandlungsstrategien beim jungen Erwachsenen mit Leistenschmerzen. Ärztekongress Quadrimed, 26.-29.1.06, Montana

Beck M.

Resultate der Chirurgischen Hüftluxation: «Berner-Serien» Balgrist Hüft Symposium 20./21.4.2006

Beck M.

Vascular keys to modern hip surgery. Plus Orthopedics: Reconstruction of the diseased hip. Bern, 6 May 2006.

Beck M.

Femoro-acetabular impingement: motion induced degeneration of the hip. Pathomechanism and surgical solutions. 4th Clare Valley Bone Meeting. 19-21 May 2006, Clare, Australia

Beck M.

New understanding of aetiology of hip arthrosis: femoro-acetabular impingement. (Presidential guest lecture) 5th Meeting of the Hip Section APOA, 22-24 May 2006. Adelaide, AUS

Beck M.

Childhood hip disorders: impact on young adult arthrosis. 5th Meeting of the Hip Section APOA, 22-24 May 2006. Adelaide, AUS

Beck M.

Periacetabular osteotomy and femoro-acetabular impingement in hip dysplasia. 5th Meeting of the Hip Section APOA, 22-24 May 2006. Adelaide, AUS

Beck M.

Bernese experience of FAI treatment. 25 May 2006. Grand Round, Dept. for Orthopaedic Surgery, Royal Melbourne Hospital, Melbourne, AUS

Beck M.

The Bern Experience in joint preserving surgery of the hip for dysplastic and non-dysplastic hips. The 2nd Annual San Francisco Hip Arthroscopy and Hip Preservation Surgery Meeting. 22.-23.9.2006

Beck M.

Etiology of hip arthritis in the non-dysplastic hip. The 2nd Annual San Francisco Hip Arthroscopy and Hip Preservation Surgery Meeting. 22.-23.9.2006

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FAI: Types and Mechanism. The 2nd Annual San Francisco Hip Arthroscopy and Hip Preservation Surgery Meeting. 22.-23.9.2006

Beck M.

Anatomic basis and technique of surgical dislocation of the hip. The 2nd Annual San Francisco Hip Arthroscopy and Hip Preservation Surgery Meeting. 22.-23.9.2006

Beck M.

Limits and danger of hip arthroscopy. The 2nd Annual San Francisco Hip Arthroscopy and Hip Preservation Surgery Meeting. 22.-23.9.2006

Beck M.

Outcomes from surgical dislocation of the hip for FAI. The 2nd Annual San Francisco Hip Arthroscopy and Hip Preservation Surgery Meeting. 22.-23.9.2006

Beck M.

Treatment of adult hip dysplasia - the role of periacetabular osteotomy. XXVI Congresso Nacional de Orthopedia e Traumatologia, 19.10.2006, Porto

Beck M.

Osteotomías acetabulares en secuela de displasia de cadera. Parámetros de elección. XLII Congreso Chileno de Orthopedia y Traumatología, 17.11.06 Viña del Mar, Chile 2006

Beck M.

Resultados a largo plazo de la osteotomía de Ganz. XLII Congreso Chileno de Orthopedia y Traumatologia, 17.11.06 Viña del Mar, Chile 2006

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Reinserción versus resección del labrum acetabular. XLII Congreso Chileno de Orthopedia y Traumatologia, 17.11.06 Viña del Mar, Chile 2006

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Técnica y resultados a largo plazo del pellizcamiento femoroacetabular. XLII Congreso Chileno de Orthopedia y Traumatologia, 17.11.06 Viña del Mar, Chile 2006

Beck M.

Abductor dysfunction. Vastus lateralis transfer. EFORT 13th Intructional course, 25.11.2006, Schulthess Klinik, Zurich.

Hartel M, Loosli Y, Gralla J, Kohl S, Krüger A, Hoppe S, Haupt U, Eggli S.

Die anatomische Normvariante des Tibiaplateaus ermittelt aus MRI-Schichtaufnahmen.

65. Jahreskongress der Schweizerischen gesellschaft für Orthopädie (SGO), 21.09.2006, Luzern, Schweiz.

Hartel M, Eggli S.

Einführung der elektronischen Verordnung – Ergebnisse des Pilotversuchs e-Med. ehealthcare Kongress, Notwil.

Hartel M, Loosli Y, Gralla J, Kohl S, Krüger A, Hoppe S, Haupt U, Eggli S.

Design einer asymmetrischen tibialen Prothesenkomponente - Ermittlung der anatomischen Normvariante des Tibiaplate aus MRI-Schichtaufnahmen. Kongress der Deutschen Gesellschaft für Orthopädie und Orthopädische Chirurgie, Berlin.

Heini PF.

Wenn das Laufwerk harzt. Osteoporosefrakturen der Wirbelsäule. 26.-29. Januar 2006, Quadrimed Ärztekongress Crans Montana/Schweiz

Heini PF.

Introduction of the day's topics. Principles in adult degenerative scoliosis. MISS innovations. 10.-11. Februar 2006, 6th Bernese live spine surgery symposium. Degenerative spinal disease, Bern/Schweiz

Heini PF.

Failed treatment of fractures. 17.-19. Februar 2006, Invited Speaker, 19th Annual conference of Association of Spine Surgeons of India, Pgimer/Indien.

Heini PF.

Reduction of compression fractures with vertebroplasty and use of bone substitutes. 3.-7. März 2006, 18th European Congress of Radiology, Wien/Oesterreich.

Heini PF.

Role of anterior support; Treatment of Osteoporotic fracture; Treatment of posttraumatic deformity; Case lab Thoracolumbar fracture; Role of posterior surgery; Anterior approaches to lumbar spine; Hemivertebra excision, 21.-23. Februar 2006, AOSpine Middle East Seminar, Riyadh/Saudi Arabien.

Heini PF.

Live surgery Vertebroplasty

Keynote lecture: Clinical applications and experiences

Vertebral cancellous bone augmented with stiffness-adapted PMMA cement does not show acute failure under dynamic loading. 16.-18. März 2006, Griboi, Bern/Schweiz.

Heini PF.

Überblick – das degenerative Bewegungssegment Vertebroplastie. Lumbale Dekompression und Stabilisierung. Trauma Problems Spine and Pelvis. 20.-21. März 2006, Videosymposium 2006, Hannover/Deutschland.

Heini PF.

Bewährtes und innovatives in der Wirbelsäulenchirurgie: Aktuelle Therapiestandards:

Verletzungen der BWS und LWS; Zusammenfassung und Konsens: Verletzungen der BWS und LWS; Präsentation repräsentativer Fälle: Spondylodisitis; Evidence of Dynamic Fixation for LBP. 6-8. April 2006, 2. AOSpine Wirbelsäulenseminar, Berlin/Deutschland.

Heini PF.

Chirurgische Technik. Wann Prothese; Wann Synfix? 19. Mai 2006, Synfix-LR Symposium, Berlin/Deutschland.

Heini PF.

Role of vertebroplasty in osteoporotic fractures. 25.-26. Mai 2006, 2nd AOSpine Anglo-Iberian Masterclass, Marbella/Spain.

Heini PF.

Kyphoplastie – Aktueller Stand und Perspektiven. Stellenamt der vertebroplastie aus unfallchirurgischer/orthopädischer Sicht 30. Juni-01.Juli 2006, Symposium Universitätsklinikum Heidelberg/Deutschland.

Heini PF.

Sakroplastik: Eine minimal invasive Behandlung von Sakrum Insuffizienzfrakturen mit Knochenzement-Augmentation. Short segment posterior correction of Lenke Type-5 curves. 20.-22. September 2006, 65. Jahreskongress der SGO, Luzern/Schweiz.

Heini PF.

Case presentation: Cervical spine trauma; Case solution (ARS): Cervical spine trauma; Case of occipitocervical trauma (ARS); Case solution: middle/lower cervical spine injuries; Cases of burst split fractures: middle/lower cervical spine injuries; Lamina split fractures: thoracolumbar trauma; The role of vertebroplasty in fracture treatment: thoracolumbar trauma; Cases of type-B injury (thoracolumbar trauma); Case of cervical radiculopathy; Case presentation: degenerative scoliosis; Case solution (ARS): lumbar degenerative disorders; Congenital scoliosis treatment with VEPTR. 6.-8. September 2006, AOSpine Central European Comprehensive Spine Course, Krakow/Polen

Heini PF.

Die Wertigkeit der Vertebroplastie und augmentativer Verfahren bei osteoporotischer Wirbelfraktur. 3.-4. Oktober 2006, Jahrestagung Schweizerische Gesellschaft für Neurochirurgie, Montreux/Schweiz.

Heini PF.

AO – AOSpine: Röntgenanatomie LWS/BWS; Erkrankungen LWS/BWS;
Behandlungsstrategien von BWS- und LWS-Frakturen; Minimal Invasive Surgery (MIS)
Röntgenanatomie HWS ; Verletzungen der HWS: Klassifikation/Behandlungsstrategie;
Erkrankungen der HWS; Knochenersatzmaterialien.

13.-14. November 2006, AOCourses OP-Personal „Wirbelsäule“, Oberdorf/Schweiz.

Heini PF.

Perkutane Zementaugmentation zur minimal-invasiven Behandlung von Sakrum
Insuffizienzfrakturen. 30.November-2. Dezember 2006, Deutscher Wirbelsäulenkongress,
München/Schweiz.

Heini PF.

The osteoporotic spine – the spine surgeon's perspective. 1.-3. Dezember 2006, Invited
Speaker, MGT 2006 Annual meeting of the hungarian spine society, Ungarn.

Heini PF.

Vertebroplasty/Kyphoplasty; Vertebroplasty/Kyphoplasty/Surgery Lecture. 10.-15. Dezember
2006, AOSpine Trauma and Tumor Course, Davos/Schweiz.

Heini PF.

Nonunion Lecture. Spine & Wine Case Seminar. Dynamic fixation. 10.-15. Dezember 2006,
AOSpine Degenerative and Deformity Course, Davos/Schweiz.

Heini PF.

Kyphoplasty. Nonunion lecture. Fusion level / adjacent segments
10.-15. Dezember 2006, AOSpine Thoracolumbar Spine Course, Davos/Schweiz

Heini PF.

Vertebroplasty/Kyphoplasty. Vertebroplasty/Kyphoplasty/Surgery Lecture 10.-15. Dezember
2006, AOSpine Cervical Spine Course, Davos/Schweiz.

Heini PF.

The osteoporotic spine. 10.-15. Dezember 2006, AOSpine Master Course, Davos/Schweiz.

Klenke FM.

The biological properties of calcium phosphate bone substitutes are influenced by the biomaterials' pore size. 16th annual meeting of the European Orthopedic Research Society, 09.06.2006, Bologna, Italy.

Klenke FM, Liu Y, Hofstetter W, Siebenrock KA.

The pore size is a structural parameter which influences the biological properties of bone substitute materials. 65. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie (SGO), 21.09.2006, Luzern, Schweiz.

Krause F, Weber M.

Anterior cheilectomy and cavus realignment to treat anteromedial ankle arthrosis. 65. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie (SGO), 21.09.2006, Luzern, Schweiz.

Krause F, Bosshard A, Weber M.

Die Schalenorthodese zur Korrektur des erworbenen flexiblen Plattfusses beim Erwachsenen. APO. 39. Annual Meeting, 3.-4. November 2006, Basel.

Krüger A, Hartel M, Kohl S, Eggli S.

Analyse der Anatomie des femoralen Anteils des Kniegelenks im Magnetresonanzbild. 65. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie (SGO), 21.09.2006, Luzern, Schweiz.

Krüger A, Tannast M, Kohl S, Siebenrock K.A.

Versorgung von Acetabulumfrakturen über einen modifizierten Kocher-Langenbeck Zugang. 65. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie (SGO), 21.09.2006, Luzern, Schweiz.

Nyffeler RW

Biomechanics of the reverse shoulder prosthesis. 4th International Shoulder Course ISC, 27-29 April 2006, Villach, Austria

Nyffeler RW

Relevance of glenoid rim fractures. 4th International Shoulder Course ISC, 27-29 April 2006, Villach, Austria.

Nyffeler RW

Biomechanics of the reverse shoulder prosthesis. Scientific Product Launch Meeting, 16-17 June 2006, Prague.

Siebenrock KA.

How to perform a correct AP pelvic radiograph?“ Course on Surgical Preservation of the Hip. Mammoth Lakes, CA 10.01.-13.01.2006.

Siebenrock KA.

A computer based correction software for ap pelvic radiographs.“ Course on Surgical Preservation of the Hip. Mammoth Lakes, CA 10.01.-13.01.2006.

Siebenrock KA.

Experimentally induced cam impingement in the sheep hip.“ Course on Surgical Preservation of the Hip. Mammoth Lakes, CA 10.01.-13.01.2006.

Siebenrock KA.

Perthes disease - Reshaping the deformed femoral head.“ Course on Surgical Preservation of the Hip. Mammoth Lakes, CA 10.01.-13.01.2006.

Siebenrock KA.

Results after PAO - new aspects.“ Course on Surgical Preservation of the Hip. Mammoth Lakes, CA 10.01.-13.01.2006.

Siebenrock KA.

Fraktur mit Querkomponente – chirurgische Luxation.“ Videovortrag am Videosymposium 2006 der Unfallchirurgischen Klinik, der Medizinischen Hochschule Hannover, Hannover, BRD 20.-21.03.2006.

Siebenrock KA.

Pistol grip, silent slip and nonspherical head – is it all the same?“ Scientific Symposium
Reconstruction of the diseased hip. Bern, 06. 05. 2006.

Siebenrock KA.

Therapieoptionen beim femoro-azetabulären Impingement“. 11. Mainzer Unfallchirurgisches
Symposium. Die verletzte Hüfte. Mainz, BRD 09.06.2006.

Siebenrock KA.

Results of surgical treatment for periacetabular osteotomy“. Breakout Session The Hip:
Biological surgical option – dysplasia. AO Board of Trustees Meeting, Berne 15. – 17. 06.
2006.

Siebenrock KA.

Notfallbehandlung lebensbedrohlicher Beckenverletzungen – Die mechanische Stabilisierung
ist entscheidend!“ 5. Homburger Beckenkurs, Homburg, BRD 13. – 15. 09. 2006.

Siebenrock KA.

Zugangswahl nach Azetabulumfrakturen – Ilioinguinaler und Kocher-Langenbeck Zugang mit
Trochanterflip lösen alle Probleme“. 5. Homburger Beckenkurs, Homburg, BRD 13. – 15. 09.
2006.

Siebenrock KA.

Key note lecture: Neue Konzepte zur Aetiologie der Coxarthrose.“ 5. Homburger Beckenkurs,
Homburg, BRD 13. – 15. 09. 2006.

Siebenrock KA.

3D-Analysis of range of motion in anterior femoroacetabular impingement.“ Closed meeting of
the International Hip Society. Paris, France 27. – 30. 09. 2006.

Siebenrock KA.

Support of the femoro-acetabular impingement hypothesis from experimental studies.“ 36th
Annual Course of Advances in Arthroplasty. Boston, MA 04. – 07. 10. 2006.

Siebenrock KA

Clinical Work-up in DDH. 13th EFORT Instructional Course – Hip Surgery. Zürich, 24. – 25. November 2006.

Locher S, *Burmeister H*, Böhlen T, Eichenberger U, Stoupis C, Moriggi B, *Siebenrock KA*, Curatolo M: Radiological anatomy of the obturator nerve and articular branches: basis to develop a method for radiofrequency denervation for hip joint pain. 5th Congress of the European Federation of ISAP Chapters. Istanbul, Turkey, 13. – 16. 09. 2006.

Tannast M.

Das konventionelle Beckenröntgenbild – What you see is what you get? Staff Meeting, Department of Orthopaedic Surgery, Inselspital, University of Berne, January 19, 2006.

Tannast M, Langlotz F, Kubiak-Langer M, Langlotz U, *Siebenrock KA*.

The influence of inaccurate landmark definition on fluoroscopy guided cup placement – a cadaver study. 2nd International Orthopaedic Congress on Modern Trends in Orthopaedics and Traumatology. Znojmo, CZ, March 30-31, 2006.

Murphy SB, Ecker TM, *Tannast M*, Bierbaum B, Garino J, Hume E, Jones R, Zann R, Keggi K, Kress K.

US Experience with Alumina ceramic-ceramic THA. 34th open scientific meeting of the Hip Society and the American Association of Hip and Knee Surgeons (AAHKS). Chicago, IL, 2006.

Tannast M.

Computer Simulation of Impingement. International symposium on Reconstruction of the Diseased Hip. Bern, May 5-7, 2006.

Tannast M, Kubiak-Langer M, Murphy SB, Ecker TM, Langlotz F, *Siebenrock KA*.

Hip joint damage occurs at the impingement zone of femoroacetabular impingement – a computer assisted study. 6th Annual Meeting of CAOS-International, Montreal, Canada, June 21-24, 2006.

Ecker TM, Murphy SB, *Tannast M*, Kubiak-Langer M, Langlotz F, *Siebenrock KA*.

Three dimensional analysis of range of motion and virtual debridement in patients with femoroacetabular impingement. 6th Annual Meeting of CAOS-International, Montreal, Canada, June 21-24, 2006.

Tannast M, Kubiak-Langer M, Ecker TM, Langlotz F, Murphy SB, *Siebenrock KA*.

Analysis of range of motion in anterior femoroacetabular impingement. 65. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie, Luzern, Switzerland. September 20-22, 2006.

Zumstein MA.

Reversion of the musculotendinous architecture in experimental chronic rotator cuff tears by continuous traction. An in vivo study in the sheep.

Radiographic and Anatomic Predictors of Scapular Notching in the Delta III Reverse Total Shoulder Replacement. 20th Congress of the European Society for Surgery of the Shoulder and Elbow, Athens, Greece.

Zumstein MA.

Reversion of the musculotendinous architecture in experimental chronic rotator cuff tears by continuous traction. An in vivo study in the sheep.

The correlation of CEBP and PPAR RNA expression levels with fatty degeneration of rotator cuff muscles after tendon rupture.

65. Jahreskongress der Schweizerischen Gesellschaft für Orthopädie (SGO), 21.09.2006, Luzern, Schweiz.

Zumstein MA.

Physical Examination of the Shoulder, Shoulder Instability of the Athlete, Shoulder Problems and Athletes.

Annual Course of the Swiss Sports Medicine Society, Leukerbad, 2006, Switzerland.

Zustein MA.

Muscle adaptation following rotator cuff tear. 13th Annual Course of German Association of Shoulder and Elbow Surgery, Wildbad Kreuth, 2006, Germany.