

## balanSys Bicondylar: Publications

Year	Title	Publication type	Medium
2018	Similar outcome during short-term follow-up after coated and uncoated total knee arthroplasty: a randomized controlled study	Publication	Knee Surg Sports Traumatol Arthrosc. 2018 Nov;26(11):3459-3467. doi: 10.1007/s00167-018-4928-0. Epub 2018 Apr 3.
2017	Superior long-term survival for fixed bearing compared with mobile bearing in ligament-balanced total knee arthroplasty.	Publication	Knee Surg Sports Traumatol Arthrosc. 2018 May;26(5):1524-1531. doi: 10.1007/s00167-017-4542-6. Epub 2017 Apr 7.
2016	The need for secondary resurfacing is affected by trochlear height in total knee arthroplasty	Publication	Knee Surg Sports Traumatol Arthrosc. 2016 Sep 13. DOI 10.1007/s00167-016-4319-3
2015	Cruciate-sacrificing total knee arthroplasty and insert design: A radiologic study of sagittal laxity.	Publication	Orthop Traumatol Surg Res. 2015 Nov 19. pii: S1877-0568(15)00276-5. doi: 10.1016/j.otsr.2015.07.024.
2015	Patella position is not a determinant for anterior knee pain 10 years after balanced gap total knee arthroplasty	Publication	Knee Surg Sports Traumatol Arthrosc. 2015 Dec 24. Orthop Traumatol Surg Res. 2015 Nov 19. pii: S1877-0568(15)00276-5. doi: 10.1016/j.otsr.2015.07.024.
2012	PVD-Silikat-Beschichtung für die verbesserte Zementhaftung auf Endoprothesen aus ATZ-Dispersionskeramik	Publication	Z Orthop Unfall. 2012;150: 40-47
2011	Functional performance of mobile versus fixed bearing total knee prostheses; a randomised controlled trail	Publication	Knee Surg Sports Traumatol Arthrosc. 2012 Aug;20(8):1450-5. doi: 10.1007/s00167-011-1684-9. Epub 2011 Sep 27.
2011	Anteroposterior stability after posterior cruciate-retaining total knee arthroplasty	Publication	Knee Surg Sports Traumatol Arthrosc. 2011; 19(7): 1113-1120
2010	Posterior cruciate ligament recruitment affects antero-posterior translation during flexion gap distraction in total knee replacement. An intraoperative study involving 50 patients	Publication	Acta Orthopædica. 2010; 81(4): 471-477
2010	Anterolateral approach with tibial tubercle osteotomy versus standard medial approach for primary total knee arthroplasty: does it matter?	Publication	BMC Musculoskelet Disord. 2010; 11:167

2010	Correction of axial and rotational alignment after medial and lateral releases during balanced gap TKA - A clinical study of 54 patients	Publication	Acta Orthopædica. 2010; 81(3): 347-353
2010	Ligament releases do not lead to increased postoperative varus-valgus laxity in flexion and extension: a prospective clinical study in 49 TKR patients	Publication	Knee Surg Sports Traumatol Arthrosc. 2010; 18: 187-193.
2009	An aluminium mold for intraoperative production of antibiotic-loaded PMMA knee prostheses	Publication	Acta Orthopædica. 2009; 80(3): 1-3
2009	Effects of the balanced gap technique on femoral component rotation in TKA	Publication	Clin Orthop Relat Res. 2009. 467:1015-1022
2008	Tension controlled ligament balanced total knee arthroplasty: 5-year results of a soft tissue orientated surgical technique	Publication	Arch Orthop Trauma Surg. 2008; 128: 129-135.
2007	A comparison of reproducibility of measurement techniques for patella position on axial radiographs after total knee arthroplasty	Publication	Knee. 2007; 14(5): 411-416.
2007	Posterior cruciate ligament balancing in total knee replacement (the quantitative relationship between tightness of the flexion gap and tibial translation)	Publication	J Bone Joint Surg [Br]. 2007; 89(8): 1046-1050.
2007	The anterior-posterior laxity after total knee arthroplasty inserted with a ligament tensor	Publication	Knee Surg Sports Traumatol Arthrosc. 2007; 15: 1019-1022.
2006	Does total knee joint replacement with the soft tissue balancing surgical technique maintain the natural joint line?	Publication	Arch Orthop Trauma Surg. 2006; 126: 480-486.
2006	Three-dimensional kinematics and kinetics of total knee arthroplasty during level walking using single plane video-fluoroscopy and force plates: A pilot study	Publication	Gait Posture. 2006; 24(4): 475-81.
2005	Knee endoprosthesis: calibrated ligament tensor ensures optimal soft tissue balancing	Publication / white paper	Orthopaedics Today International. September 2005.

### balanSys Bicondylar: Congress Presentations, Congress Posters and other References

Year	Title	Publication type	Medium
2015	Fixed bearing ligament balanced TKA shows better survival but similar clinical outcome compared with AP-glide bearing	Congress Poster	ICJR, 16.-18.04.2015, Paris

2015	Incidence and determinants of anterior knee pain 11 years after balanced gap total knee arthroplasty	Congress Poster	ICJR, 16.-18.04.2015, Paris
2015	10 years after balanced gap total knee arthroplasty	Congress presentation	DKOU, 20.-23.10.2015, Berlin, Germany
2015	Fixed Bearing Ligament Balanced TKA Shows Better Survival But Similar Clinical Outcome Than AP-Glide Bearing	Congress presentation	EFORT, 27.-29.05.2015, Prague
2014	Long-term results of the tension controlled, ligament balanced total knee arthroplasty	Congress poster	ESSKA. 14-17 May 2014, Amsterdam, Netherlands
2013	10 year results of the tension controlled, ligament balanced total knee arthroplasty	Congress presentation	SGOT, 26.-28.06.2013 Lausanne, Switzerland
2013	Long-term results of a tension controlled ligament balanced total knee arthroplasty	Data on file	White paper Mathys Ltd. Bettlach
2011	Klinische Resultate einer neuen posterior stabilisierten Knie-TEP - eine Multicenter-Studie	Congress presentation	DKOU. 25.-28.10.2011, Berlin, Germany
2011	Posterior stabilised implants in primary total knee replacement	Congress presentation	SICOT. 06.-09.09.2011, Prague, Czech Republic
2010	Posterior stabilised implants in primary total knee replacement	Congress poster	SIOT. 20.-24.11.2010, Roma, Italy
2010	Posterior stabilised implants in primary total knee replacement	Congress poster	ESSKA. 09.-12.06.2010, Oslo, Norway
2010	Patellar tracking is not influenced by femoral component rotation after total knee replacement with the balanced gap technique	Congress poster	ESSKA. 09.-12.06.2010, Oslo, Norway
2010	Comparison of outcomes of medial parapatellar vastus split versus lateral parapatellar subvastus approach with tibial tubercle osteotomy for primary TKA	Congress poster	ESSKA. 09.-12.06.2010, Oslo, Norway
2010	Comparison of three different polyethylene designs in artificial knee joints. First clinical results	Congress poster	ESSKA. 09.-12.06.2010, Oslo, Norway
2009	Klinische Resultate in der Knie-Endoprothetik mit verschiedenen Poly-Designs	Congress presentation	57. Jahrestagung der Vereinigung Süddeutscher Orthopäden. 30.04.-03.05.2009, Baden-Baden, Germany
2009	Drei unterschiedliche Polyethylendesigns im künstlichen Kniegelenk im Vergleich - erste klinische Resultate	Congress presentation	DKOU. 21.-24.10.2009, Berlin, Germany
2008	Ligament balancing total knee arthroplasty - A prospective clinical and radiological evaluation	Congress poster	Efort. 19.05.-01.06.2008, Nice, France.

2008	Dynamic in-vivo behaviour of a novel tibial insert design for TKA.	Congress poster	ESSKA. 21.-24.05.2008, Porto, Portugal.
2008	In vivo varus and valgus laxity in flexion and extension during navigated total knee replacement	Congress poster	ESSKA. 21.-24.05.2008, Porto, Portugal.
2008	Functional performance of mobile versus fixed bearing total knee prostheses; a multicenter, randomised controlled trial	Congress presentation	ESSKA. 21.-24.05.2008, Porto, Portugal.
2008	Quantitative flexion gap dynamics during computer navigated ligament-guided total knee arthroplasty	Congress presentation	ESSKA. 21.-24.05.2008, Porto, Portugal.
2007	Quantitative flexion gap dynamics during computer navigated ligament-guided total knee arthroplasty	Book abstract	CAOS. 20.-23.06.2007, Heidelberg, Germany.
2007	Die intraoperative Kompartiment-Druckmessung mittels Sensortechnik bei der Balancierten Knieprothese	Congress poster	DGOOC. 24.-27.10.2007 Berlin, Germany.
2007	Ligament balancing total knee arthroplasty with a rotating platform - Early prospective clinical and radiological results	Congress presentation	SGO. 19.-21.09.2007, Montreux, Switzerland.
2007	Midterm results and stability measurements after total knee arthroplasty using the ligament balancing technique - A prospective study	Congress presentation	Efort. 11.-15.05.2007, Florenz, Italy.
2007	Flexion and extension laxity in the ligament-guided total knee arthroplasty using 150 N in extension and 100 N in flexion	Congress presentation	ISAKOS. 27.-31.05.2007, Florenz, Italy.
2007	Knee laxity in flexion and extension in older healthy subjects with normal knee joints	Congress presentation	ISAKOS. 27.-31.05.2007, Florenz, Italy.
2007	Reproducibility of measurement techniques for patella position on axial radiographs after total knee arthroplasty	Congress presentation	ISAKOS. 27.-31.05.2007, Florenz, Italy.
2007	In vivo effects of medial ligament releases on extension and flexion gap changes in ligament-guided total knee arthroplasty	Congress presentation	ISAKOS. 27.-31.05.2007, Florenz, Italy.
2006	Does total knee joint replacement with the soft tissue balancing surgical technique guarantee the exact reconstruction to the natural joint line?	Congress Poster	ESSKA. 24.-27.05.2006, Innsbruck, Austria.

2006	An experimental study about soft tissue releases performed during TKA surgery by using a novel hydraulic tensioner in normal human cadaver knees	Congress poster	ESSKA. 24.-27.05.2006, Innsbruck, Austria.
2006	BalanSys mobile bearing vs. balanSys fixed bearing - Quantitative Bewegungsanalyse mit Fluoroscopy Integrated Motion Acquisition	Data on file	Dissertation.
2005	Total Knee Arthroplasty. A Guide to Better Performance	Book chapter	New York, NY: Springer-Verlag; 2005: 303-310.
2005	BalanSys bicondylar: 5-year results of a soft-tissue-oriented total knee arthroplasty	Congress presentation	SGO. 07.-09.09.2005, Zurich, Switzerland.
2005	BalanSys bicondylär: 5 Jahres Resultate einer weichteilorientierten Knieendoprothetik.	Congress presentation	SGO. 07.-09.09.2005, Zurich, Switzerland.
2005	BalanSys RP: Design aspects and tribological investigations	Data on file	White paper Mathys Ltd. Bettlach + Dr Robert Mathys Foundation.
2004	6 Jahre Erfahrungen mit balanSys	Book chapter	Buchreihe für Orthopädie und orthopädische Grenzgebiete; Ersatz der grossen Gelenke; Medizinisch Literarische Verlagsgesellschaft MBH, Uelzen; Band 19 (15-18); ISBN 3-88136-227-4.
2004	Die weichteilorientierte Implantation der Knie totalprothese	Book chapter	Buchreihe für Orthopädie und orthopädische Grenzgebiete; Ersatz der grossen Gelenke; Medizinisch Literarische Verlagsgesellschaft MBH, Uelzen; Band 19 (19-25); ISBN 3-88136-227-4.
2002	Stress analysis in the balanSys mobile bearing design	Congress poster	balanSys Knee Launch Symposium, 15.-17.03.2002, Lucerne, Switzerland.
2002	Clinical results after total knee arthroplasty with the balanSys knee prosthesis of the Mathys medical Ltd. company	Data on file	Summary of dissertation.

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