

# Curriculum Vitae PD Dr. med. Peter P. Koch

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## Personalien

Name: Koch, Peter Philipp  
Geburtsdatum: 29.01.1967  
Heimatort: Niederhelfenschwil, SG  
Zivilstand: verheiratet, 3 Kinder  
Sprachen: deutsch, französisch, englisch, spanisch

## Hochschulabschluss

Medizinische Fakultät, Universität Bern, 1994

## Ausbildung und Tätigkeit als Facharzt FMH für Orthopädische Chirurgie und Traumatologie des Bewegungsapparates

### Assistenzarzt

1996 Allgemeine Chirurgie und Traumatologie, Chirurgische Klinik Kantonsspital Winterthur (Prof. M. Decurtins)

1997-1998

Orthopädie und Traumatologie, Hôpital Cantonal Fribourg (Prof. R.P. Jakob)

1999-2002

Orthopädie, Orthopädische Universitätsklinik Balgrist, Zürich (Prof. C. Gerber)

### Oberarzt

2002-2003

Orthopädie und Traumatologie, Orthopädische Universitätsklinik Inselspital, Bern (Prof. R. Ganz)

2003-2004

Orthopädie, Orthopädische Universitätsklinik Balgrist, Zürich (Prof. C. Gerber)

### Leiter Kniechirurgie

2005-2013

Orthopädie, Orthopädische Universitätsklinik Balgrist, Zürich (Prof. C. Gerber)

Stv. Direktor Departement Chirurgie (Mitglied der Spitalleitung)

Klinikleiter/Chefarzt Klinik für Orthopädie und Traumatologie, Leiter Kniechirurgie Kantonsspital Winterthur

2014-2021

### Belegarztstätigkeit, Kniechirurgie

Gelenkzentrum Winterthur AG, Schickstrasse 11, 8400 Winterthur

Seit August 2021

## **Akademische Stellung**

Erhalt der Venia Legendi am 25. Juli 2012 und Ernennung zum Privatdozenten (PD) der Universität Zürich.

## **Mitgliedschaften**

Verbindung Schweizer Ärztinnen und Ärzte (FMH)

Schw. Gesellschaft für Orthopädie und Traumatologie (SGOT), Swiss Orthopaedics

- Expertengruppe Knie (EGK), Präsident (2020 bis voraussichtlich 2022)

Schweizerische Gesellschaft für Sportmedizin (SGSM)

Gesellschaft für Arthroskopie und Gelenkchirurgie (AGA)

- Mitglied des Vorstandes seit 2020

European Society of Sports Traumatology, Knee Surgery and Arthroscopy (ESSKA)

- European Knee Associates (EKA)

European Knee Society (EKS)

International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS)

## **Spezialisierung**

Konservative/operative Behandlung von Erkrankungen und Verletzungen des Kniegelenkes:

- Sämtliche kniearthroskopische Operationen
- Meniskustransplantation
- Vordere/hintere Kreuzband-Rekonstruktionen von Erwachsenen und Kindern, Behandlung von komplexen Knieinstabilitäten (inklusive Knieluxationen)
- Patella-Stabilisierungen (MPFL-Rekonstruktion, Trochleoplastik) bei Erwachsenen und Kindern
- Operationen bei Knorpelschäden
- Umstellungsoperationen (Beinachsen-Korrekturen, sogenannte Osteotomien) bei degenerativen oder posttraumatischen Deformitäten des Knies
- Knie-Endoprothesen (unikompartimentelle Knieprothesen, patellofemorale Teilprothesen, Totalprothesen; patienten-spezifische Instrumentierung PSI), Revisions-Endoprothesen inklusive Prothesenwechsel

## Relevante Publikationen

- 55: Christen B, Tanner L, Ettinger M, Bonnin MP, Koch PP, Calliess T.  
Comparative cost analysis of four different computer-assisted technologies to implant a total knee arthroplasty over conventional instrumentation.  
J Pers Med. 2022, 12:184.
- 54: von Eisenhart-Rothe R, Lustig S, Graichen H, Koch PP, Becker R, Mullaji A, Hirschmann MT.  
A safe transition to a more personalized alignment in total knee arthroplasty: the importance of a “safe zone” concept.  
Knee Surg Sports Traumatol Arthrosc. 2022, 30:365.
- 53: Fucentese SF, Koch PP.  
A novel augmented reality-based surgical guidance system for total knee arthroplasty.  
Arch Orthop Trauma Surg. 2021, 141:2227.
- 52: Gaukel S, Vuille D, Bill RN, Schläppi M, Koch PP.  
CT-based patient-specific instrumentation for total knee arthroplasty in over 700 cases: single-use instruments are as accurate as standard instruments.  
Knee Surg Sports Traumatol Arthrosc. 2020 Jul 16. doi: 10.1007/s00167-020-06150-x. Online ahead of print.
- 51: Delaloye JR, Hartog C, Blatter S, Schläppi M, Müller D, Denzler D, Murar J, Koch PP.  
Anterolateral ligament reconstruction and modified Lemaire lateral extraarticular tendodesis similarly improve knee stability after anterior cruciate ligament reconstruction: a biomechanical study.  
Arthroscopy. 3:S0749-8063(20)30272-3. doi: 10.1016/j.arthro.2020.03.027. Online ahead of print.
- 50: Schütz P, Taylor WR, Postolka B, Fucentese SF, Koch PP, Freeman MAR, Pinskerova V, List R.  
Kinematic Evaluation of the GMK Sphere Implant During Gait Activities: A Dynamic Videofluoroscopy Study.  
J Orthop Res. 2019 Jul 15. doi: 10.1002/jor.24416. [Epub ahead of print]
- 49: Fucentese SF, Tscholl PM, Sutter R, Brucker PU, Meyer DC, Koch PP.  
Bone autografting in medial open wedge high tibial osteotomy results in improved osseous gap healing on computed tomography, but no functional advantage: a prospective, randomised, controlled trial.  
Knee Surg Sports Traumatol Arthrosc. 2019 Sep;27(9):2951-2957
- 48: Wichmann T, Moriarty TF, Keller I, Pfister S, Deggim-Messmer V, Gautier E, Kalberer F, Koch PP, Wahl P.  
Prevalence and quantification of contamination of knitted cotton outer gloves during hip and knee arthroplasty surgery.  
Arch Orthop Trauma Surg. 2019 Apr;139(4):451-459
- 47: Van Overschelde P, Pinskerova V, Koch PP, Fornasieri C, Fucentese S.  
Redefining Knee Balance in a Medially Stabilized Prosthesis: An *In-Vitro* Study.  
Open Orthop J. 2017 Oct 31;11:1165-1172
- 46: Benninger E, Meier C, Wirth S, Koch PP, Meyer D.  
Effect of Mirrored Views on Endoscopic and Arthroscopic Skill Performance.  
Orthop J Sports Med. 2017 Feb 3;5(2):1
- 45: Koch PP, Fucentese SF, Blatter SC.  
Complications after epiphyseal reconstruction of the anterior cruciate ligament in prepubescent children.  
Knee Surg Sports Traumatol Arthrosc. 2016 Sep;24(9):2736-2740


- 44: 2325967116685066, 2017
- 43: Koch PP, Fucentese SF, Blatter SC  
Complications after epiphyseal reconstruction of the anterior cruciate ligament in prepubescent children.  
Knee Surg Sports Traumatol Arthrosc. 24(9):2736-40, 2016
- 42: Tscholl PM, Antoniadis A, Dietrich TJ, Koch PP, Fucentese SF  
The tibial-tubercle trochlear groove distance in patients with trochlear dysplasia: the influence of the proximally flat trochlea.  
Knee Surg Sports Traumatol Arthrosc. 24(9):2741-7, 2016
- 41: Borbas P, Wieser K, Rahm S, Fucentese SF, Koch PP, Meyer DC  
Radiodense ligament markers for radiographic evaluation of anterior cruciate ligament reconstruction.  
Knee. 21(6):1018-22, 2014
- 40: Borbas P, Koch PP, Fucentese SF  
Lateral patellofemoral ligament reconstruction using a free gracilis autograft.  
Orthopedics. 37(7):e665-8, 2014
- 39: Swanenburg J, Koch PP, Meier N, Wirth B  
Function and activity in patients with knee arthroplasty: validity and reliability of a German version of the Lysholm Score and the Tegner Activity Scale.  
Swiss Med Wkly. 12;144:w13976, 2014
- 38: Thienpont E, Schwab PE, Paternostre F, Koch PP  
Rotational alignment of the distal femur: anthropometric measurements with CT-based patient-specific instruments planning show high variability of the posterior condylar angle.  
Knee Surg Sports Traumatol Arthrosc. 22(12):2995-3002
- 36. Guggenberger R, Pfirrmann CW, Koch PP, Buck FM  
Assessment of lower limb length and alignment by biplanar linear radiography: comparison with supine CT and upright full-length radiography.  
Am J Roentgenol. 202(2):W161-7, 2014
- 36: Fucentese SF, Rahm S, Wieser K, Spillmann J, Harders M, Koch PP.  
Avaluation of a virtual-rality-based simulator using passive haptic feedback for knee arthroscopy.  
Knee Surg Sports Traumatol Arthrosc. 2013 Oct; 21(10): 2200-5.
- 35: Koch PP, Müller D, Pisan M, Fucentese SF.  
Radiographic accuracy in TKA with a CT-based patient-specific cutting block technique.  
Knee Surg Sports Traumatol Arthrosc. 2013 Oct; 21(10): 2200-5.
- 34: Dietrich TJ, Betz M, Pfirrmann CW, Koch PP, Fucentese SF.  
End-stage extension of the knee and its influence on tibial toverosity-trochlear groove distance (TTTG) in asymptomatic volunteers.  
Knee Surg Sports Traumatol Arthrosc. 2014 Jan; 22(1): 214-8.
- 33: Buck FM, Guggenberger R, Koch PP, Pfirrmann CW.  
Femoral and tibial torsion measurements with 3D models based on low-dose biplanar radiographs in comparison with standard CT measurements.  
Am J Roentgenol. 2012; Nov, 199(5):W607-12
- 32: Bouaicha S, Dora C, Puskas GJ, Koch PP, Wirth SH, Meyer DC.  
Preliminary clinical report of flexible videoarthroscopy in diagnostic knee and hip arthroscopy.  
Technol Health Care. 2012;20(2):127-33.

- 31: Zingg PO, Fucentese SF, Lutz W, Brand B, Mamisch N, Koch PP.  
Haemophilic knee arthropathy: long-term outcome after total knee replacement.  
Knee Surg Sports Traumatol Arthrosc. 2012 Feb 1. [Epub ahead of print]
- 30: Meyer DC, Stalder M, Koch PP, Snedeker JG, Farshad M.  
Contact pressure on ACL hamstring grafts in the bone tunnel with interference screw fixation - Dynamic adaptation under load.  
Knee. 2012 Oct;19(5):676-9. Epub 2011 Dec 23.
- 29: Klammer G, Müller DA, Koch PP, Meyer DC  
Epicondylar advancement osteotomy for flexion gap asymmetry after total knee replacement.  
Acta Orthop Belg. 2011 Oct;77(5):680-3.
- 28: Farshad M, Weinert-Aplin RA, Stalder M, Koch PP, Snedeker JG, Meyer DC.  
Embossing of a screw thread and TCP granules enhances the fixation strength of compressed ACL grafts with interference screws.  
Knee Surg Sports Traumatol Arthrosc. 2012 Feb;20(2):268-74. Epub 2011 Jul 21.
- 27: Brucker PU, Favre P, Puskas GJ, von Campe A, Koch PP, Meyer DC.  
Influence of test temperature on biomechanical properties of all-inside meniscal repair devices and inside-out meniscus sutures--evaluation of an isolated distraction loading, worst-case scenario.  
Clin Biomech (Bristol, Avon). 2011 Aug;26(7):749-53. Epub 2011 May 13.
- 26: Brucker PU, von Campe A, Meyer DC, Arbab D, Stanek L, Koch PP.  
Clinical and radiological results 21 years following successful, isolated, open meniscal repair in stable knee joints.  
Knee. 2011 Dec;18(6):396-401. Epub 2011 Apr 13.
- 25: Koch PP, Fuchs B, Meyer DC, Fucentese SF.  
Closing wedge patellar osteotomy in combination with trochleoplasty.  
Acta Orthop Belg. 2011 Feb;77(1):116-21
- 24: Hudek R, Fuchs B, Regenfelder F, Koch PP.  
Is noncontact ACL injury associated with the posterior tibial and meniscal slope?  
Clin Orthop Relat Res. 2011 Aug;469(8):2377-84. Epub 2011 Feb 12
- 23: Fucentese SF, Zingg PO, Schmitt J, Pfirrmann CW, Meyer DC, Koch PP.  
Classification of trochlear dysplasia as predictor of clinical outcome after trochleoplasty.  
Knee Surg Sports Traumatol Arthrosc. 2011 Oct;19(10):1655-61. Epub 2011 Feb 8.
- 22: Brucker PU, Favre P, Puskas GJ, von Campe A, Meyer DC, Koch PP.  
Tensile and Shear Loading Stability of All-Inside Meniscal Repairs: an in vitro biomechanical evaluation.  
Am J Sports Med. 2010 Sep;38(9):1838-44.
- 21: Diezi C, Wirth S, Meyer DC, Koch PP.  
Effect of femoral to tibial varus mismatch on the contact area of unicondylar knee prostheses.  
Knee. 2010 Oct;17(5):350-5.
- 20: Hudek R, Schmutz S, Regenfelder F, Fuchs B, Koch PP.  
Novel Measurement Technique of the Tibial Slope on Conventional MRI.  
Clin Orthop Relat Res. 2009 Aug;467(8):2066-72. Epub 2009 Feb 4.
- 19: Koch PP, Tannast M, Fujita H, Siebenrock K, Ganz R.  
Minimum ten year results of total hip arthroplasty with the acetabular reinforcement ring in avascular osteonecrosis.

Int Orthop. 2008 Apr;32(2):173-9.

- 18: Sadri H, Pfander G, Siebenrock KA, Tannast M, Koch P, Fujita H, Ballmer P, Ganz R. Acetabular reinforcement ring in primary total hip arthroplasty: A minimum 10-year follow-up. Arch Orthop Trauma Surg. 2008 Aug;128(8):869-77.
- 17: Duc SR, Pfirrmann CW, Koch PP, Zanetti M, Hodler J. Internal knee derangement assessed with 3-minute three-dimensional isovoxel true FISP MR sequence: preliminary study. Radiology. 2008 Feb;246(2):526-35.
- 16: Dora C, Houweling M, Koch P, Sierra RJ. Iliopsoas impingement after total hip replacement: the results of non-operative management, tenotomy or acetabular revision. J Bone Joint Surg Br. 2007 Aug;89(8):1031-5.
- 15: Duc SR, Pfirrmann CW, Schmid MR, Zanetti M, Koch PP, Kalberer F, Hodler J. Articular cartilage defects detected with 3D water-excitation true FISP: prospective comparison with sequences commonly used for knee imaging. Radiology. 2007 Oct;245(1):216-23.
- 14: Hempfing A, Schoeniger R, Koch PP, Bischel O, Thomsen M. Patellar blood flow during knee arthroplasty surgical exposure: Intraoperative monitoring by laser doppler flowmetry. J Orthop Res. 2007 Oct;25(10):1389-94.
- 13: Duc SR, Koch P, Schmid MR, Horger W, Hodler J, Pfirrmann CW. Diagnosis of articular cartilage abnormalities of the knee: prospective clinical evaluation of a 3D water-excitation true FISP sequence. Radiology. 2007 May;243(2):475-82.
- 12: Dora C, von Campe A, Mengiardi B, Koch P, Vienne P. Simplified wound care and earlier wound recovery without closed suction drainage in elective total hip arthroplasty. A prospective randomized trial in 100 operations. Arch Orthop Trauma Surg. 2007 Dec;127(10):919-23.
- 11: Ossendorf C, Fuchs B, Koch P. Femoral stress fracture after computer navigated total knee arthroplasty. Knee. 2006 Oct;13(5):397-9.
- 10: Jungius KP, Schmid MR, Zanetti M, Hodler J, Koch P, Pfirrmann CW. Cartilaginous defects of the femorotibial joint: accuracy of coronal short inversion time inversion-recovery MR sequence. Radiology. 2006 Aug;240(2):482-8. Epub 2006 Jun 26.
- 9: Roos JE, Chilla B, Zanetti M, Schmid M, Koch P, Pfirrmann CW, Hodler J. MRI of meniscal lesions: soft-copy (PACS) and hard-copy evaluation versus reviewer experience. AJR Am J Roentgenol. 2006 Mar;186(3):786-90.
- 8: Fucentese SF, von Roll A, Koch PP, Epari DR, Fuchs B, Schottle PB. The patella morphology in trochlear dysplasia--a comparative MRI study. Knee. 2006 Mar;13(2):145-50.
- 7: Meyer DC, Mayer J, Weber U, Mueller A, Koch PP, Gerber C. Ultrasonically implanted PLA suture anchors are stable in osteopenic bone. Clin Orthop Relat Res. 2006 Jan;442:143-8.

- 6: Schmid MR, Pfirrmann CW, Koch P, Zanetti M, Kuehn B, Hodler J.  
Imaging of patellar cartilage with a 2D multiple-echo data image combination sequence.  
AJR Am J Roentgenol. 2005 Jun;184(6):1744-8.
- 5: Nagy L, Koch PP, Gerber C.  
Functional analysis of shoulder arthrodesis.  
J Shoulder Elbow Surg. 2004 Jul-Aug;13(4):386-95.
- 4: Koch PP, Exner GU.  
Supracondylar medial open wedge osteotomy with external fixation for cubitus varus deformity.  
J Pediatr Orthop B. 2003 Mar;12(2):116-22.
- 3: Koch PP, Gross DF, Gerber C.  
The results of functional (Sarmiento) bracing of humeral shaft fractures.  
J Shoulder Elbow Surg. 2002 Mar-Apr;11(2):143-50.
- 2: Jost B, Koch PP, Gerber C.  
Anatomy and functional aspects of the rotator interval.  
J Shoulder Elbow Surg. 2000 Jul-Aug;9(4):336-41.
- 1: Fischer T, Koch P, Saager C, Kohut GN.  
The radio-radial external fixator in the treatment of fractures of the distal radius.  
J Hand Surg [Br]. 1999 Oct;24(5):604-9.
- **Buchartikel:**  
In: Improving Accuracy in Knee Arthroplasty  
MRI and CT-based Cutting Guides Type MyKnee.  
Editor Emmanuel Thienpont, Jaypee Medical Ltd, London, 2012



Peter P. Koch, 25.03.2022