



Prof méd. Olivier Guyen

Specialist in Orthopedic surgery and Traumatology of the
Musculoskeletal System
Hip and Knee replacement Specialist

Profile

Languages

French and English

Work experience

- since 2019 Certified Physician, Department of Orthopedic surgery and Traumatology, Clinique de Genolier, Genolier and Clinique de Montchoisi, Lausanne
- since 2016 Associate Professor, Assistant Physician, Head of the Prosthetic Hip and Knee Team, Department of Orthopedics-Traumatology, Orthopedic Hospital, CHUV, Lausanne
- 2014-2016 Visiting Professor, Assistant Physician, Head of the Prosthetic Hip and Knee Team, Department of Orthopedics-Traumatology, Orthopedic Hospital, CHUV, Lausanne
- 2014-2018 Pre- and postgraduate teaching at University of Lausanne (UNIL), teaching at Haute Ecole de Santé Vaud (HESAV), Physiotherapy program
- 2009-2014 University Professor - Hospital Practitioner (PU-PH), Head of Orthopedic-Trauma Lower Limb Surgery, Pavillon T - Edouard Herriot Hospital Group, Hospices Civils de Lyon, University of Lyon, France
- 2006-2009 University Hospital Practitioner (PHU), Department of Orthopedic-Trauma Surgery Lower Limb Surgery, Pavillon T - Edouard Herriot Hospital Group, Hospices Civils de Lyon, University of Lyon, France
- 2005 Fellow at MAYO CLINIC Orthopedic Surgery Department (Prof. D.J. Berry, Prof. M.E Cabanela), Rochester, Minnesota, USA
- 2002-2006 University Clinic Leader - Hospital Assistant, University of Lyon, France
- 2002 Research Fellow at MAYO CLINIC Biomechanics Laboratory (Dr. Kai-Nan AN, PhD), Rochester, Minnesota, USA
- 1994-2002 Hospital intern, Lyon, France Surgical specialties in Orthopedics-Traumatology

Education

- 2009 Medical Pedagogy University training, Lyon, France
- 2008 Authorization to Direct Research (HDR), Lyon, France "Contribution to the study of total hip prostheses instability"
- 2004 PhD science thesis, Lyon, France "Mechanical study of tripolar dual mobility cup in total hip arthroplasty"

2003	Interuniversity Diploma (DIU) of Surgical Pathology of the Knee, Lyon, France Diploma in Orthopedic Surgery & Traumatology (DESCQ), Lyon, France
2002	Diploma of General Surgery (DES), Lyon, France
2001	Doctorate of Medicine, Lyon, France "Tibial osteotomies of valgization in Paget's bone disease"
1999	University Diploma of Medicine and Public Health, Marseille, France
1988-1994	First and Second Cycle of Medical Studies, University of Bourgogne, Dijon, France

Memberships

- Member of French Society of Orthopedic Surgery (SOFECOT)
- Affiliated International member of the American Society of Orthopedic Surgery (AAOS)
- Member of French Society of Hip and Knee (SFHG)
- Member of European Hip Society

Competences

- Orthopedic surgery and Traumatology of the Musculoskeletal System
- Prosthetic surgery of the knee and hip
- Primary surgery and computer-assisted revision

Publications

Guyen O., Chen Q.S., Bejui-Hugues J., Berry D.J., An K.N. Unconstrained tripolar hip implants: effect on hip stability. *Clinical Orthopedics and Related Research* 2007

Guyen O., Pibarot V., Vaz G., Chevillotte C., Carret J.P., Bejui-Hugues J. Unconstrained tripolar implants for primary total hip arthroplasty in patients at risk for dislocation. *Journal of Arthroplasty* 2007

Guyen O., Pibarot V., Bejui-Hugues J. Navigation and total hip arthroplasty. *Interact Surg* 2008

Guyen O., Pibarot V., Vaz G., Chevillotte C., Béjui-Hugues J. Use of a dual mobility socket to manage total hip arthroplasty instability. *Clinical Orthopedics and Related Research* 2009

Guyen O., Lewallen D.G., Cabanela M.E. Modes of failure of Osteonics constrained tripolar implants: a retrospective analysis of forty-three failed implants. *Journal of Bone and Joint Surgery. American Volume* 2010

Chevillotte C., Trousdale R.T., Chen Q., **Guyen O.**, An K.N. The 2009 Frank Stinchfield Award: «;Hip squeaking »: a biomechanical study of ceramic-on-ceramic bearing surfaces. *Clinical Orthopedics and Related Research* 2010

Wegrzyn J., Pibarot V., Chapurlat R., Carret J.P., Béjui-Hugues J., **Guyen O.** Cementless total hip arthroplasty in Paget's disease of bone: a retrospective review. *International Orthopedics* 2010

Chevillotte C., Pibarot V., Carret J.P., Bejui-Hugues J., **Guyen O.** Nine years follow-up of 100 ceramic-on-ceramic total hip arthroplasty. *International Orthopedics* 2011

Chatain F., Denjean S., Delalande J.L., Chavane H., Bejui-Hugues J., **Guyen O.** Computer-navigated revision total knee arthroplasty for failed unicompartmental knee arthroplasty. *Orthopedics and Traumatology, Surgery and Research* 2012

Chevillotte C., Pibarot V., Carret J.P., Bejui-Hugues J., **Guyen O.** Hip squeaking: a 10-year follow-up study. *Journal of Arthroplasty* 2012

Wegrzyn J., Thoreson A.R., **Guyen O.**, Lewallen D.G., An K.N. Cementation of a dual-mobility acetabular component into a well-fixed metal shell during revision total hip arthroplasty: a biomechanical validation. 2013 Journal of Orthopedic Research

Wegrzyn J., Pibarot V., Jacquel A., Carret J.P., Bėjui-Hugues J., **Guyen O.** Acetabular reconstruction using a Kerboull cross-plate, structural allograft and cemented dual-mobility cup in revision THA at a minimum 5-year follow-up. Journal of Arthroplasty 2014

Albrecht E., **Guyen O.**, Jacot-Guillarmod A, Kirkham KR. The analgesic efficacy of local infiltration analgesia vs femoral nerve block after total knee arthroplasty: a systematic review and meta-analysis. Br J Anaesth 2016

Guyen O., Tissot C. Patients with metal-on-metal hip arthroplasty: evaluation and management of complications. Rev Med Suisse 2016.

Terrier A, Latypova A, Guillemin M, Parvex V, **Guyen O.** Dual mobility cups provide biomechanical advantages in situations at risk for dislocation: a finite element analysis. Int Orthop 2017.

Guyen O.

Constrained liners, dual mobility or large diameter heads to avoid dislocation in THA. EFORT Open Rev 2017

Guyen O.

Stability: Demonstration by experimental model. "Dual mobility in total hip prosthetics" Elsevier Masson SAS 2018

Guyen O.

Hemiarthroplasty or total hip arthroplasty in recent femoral neck fractures? Orthop Traumatol Surg Res. 2019

Awards

- Winner of Antonin Poncet Research Prize, Lyon, 2004
- Winner of "Générale de Santé" prize, national congress of SOFCOT 2004, Paris
- The Frank Stinchfield Award of the American Hip Society
- «Hip squeaking: Biomechanics study of Ceramic on Ceramic Bearing Surface» C. Chevillotte, R. Trousdale, Q. Chen, O. Guyen, D. Berry, K. An, Las Vegas, Nevada, USA, 2009

Research

Research work on the following themes:

- Prosthetic hip surgery, double mobility cup
- Prosthetic knee surgery
- Prosthetic Surgery by Navigation and Robotics

Collaborations with:

- The Joint Biomechanics Group, EPFL Laboratory of Biomechanical Orthopedics (A.Terrier)
- EPFL Laboratory of Movement Analysis and Measurement (Prof. K. Aminian)

Handouts Presentations

Congress & Conference Organization

- **Scientific Director, member of the Organizing Committee and President of the "Journées Lyonnaises de la Hanche 2012"**, on November 30, 2012, in Lyon on the theme "Double Mobility: State of Art in 2012".

- **Chairman and organizer of the international congress "Dual Mobility and its Practice",** Lausanne, 15 June 2018

Accreditation

[Clinique de Genolier](#)

[Clinique de Montchoisi](#)

[Centre Médical Montchoisi](#)

Specialties

[Orthopaedics and traumatology](#)

Contact

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