



## Prof. Dr. med. Olivier Guyen

Specialist in orthopaedic surgery and traumatology of the musculoskeletal system  
Specialist in knee and hip replacement

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### Languages

FR,EN

### Work Experience

- since 2019 Accredited physician, Orthopaedic surgery and trauma department, Clinique de Genolier, Genolier, and Clinique de Montchoisi, Lausanne
- since 2016 Associate professor, Deputy physician, and Team leader for hip and knee replacement, Orthopaedics and traumatology department, Orthopaedic hospital, Centre Hospitalier Universitaire Vaudois, Lausanne
- 2014-2018 Pre- and post-graduate studies at the University of Lausanne, studies at the Vaud School of Health Sciences, Physiotherapy stream
- 2014-2016 Guest lecturer, Deputy physician, and Team leader for hip and knee replacement, Orthopaedics and traumatology department, Orthopaedic hospital, Centre Hospitalier Universitaire Vaudois, Lausanne
- 2009-2014 University lecturer and hospital practitioner, Head of the Lower-limb orthopaedic surgery and traumatology department, Groupement Hospitalier Edouard Herriot, Hospices Civils de Lyon, University of Lyon, France
- 2006-2009 University hospital practitioner, Lower-limb orthopaedic surgery and traumatology department, Groupement Hospitalier Edouard Herriot, Hospices Civils de Lyon, University of Lyon, France
- 2002-2006 Chief resident at the university clinic and Hospital assistant, University of Lyon, France
- 2005 Fellow within the Orthopaedic surgery department of the Mayo Clinic (Prof. D J Berry, Prof. M E Cabanela), Rochester, Minnesota, USA
- 2002 Research fellow at the Biomechanics lab at the Mayo Clinic (Dr Kai-Nan An, PhD), Rochester, Minnesota, USA
- 1994-2002 Junior doctor at hospitals in Lyon, France. Surgical specialisms, Orthopaedics and traumatology stream

### Education

- 2009 University training in medical pedagogy, Lyon, France
- 2008 Habilitation à Diriger des Recherches, Lyon, France  
"Contribution to the study of instability of total hip prostheses"
- 2004 Thesis for Doctorate in Science, Lyon, France  
"Mechanical study of the dual-mobility tripod cup in total hip arthroplasties"

2003	Inter-university diploma in Knee surgery pathology. Lyon, France Diploma in Orthopaedic surgery and traumatology (Diplôme d'Etudes Spécialisées Complémentaires Qualifiantes) Lyon, France
2002	General surgery diploma, Lyon, France
2001	Doctorate in medicine, Lyon, France "Tibial valgus osteotomies in Paget's disease of bone"
1999	Degree in Tropical medicine and public health, Marseilles, France
1988-1994	First and second cycles of medical studies, University of Burgundy, Dijon, France

## Competences

- Orthopaedic surgery and traumatology of the musculoskeletal system
- Knee and hip replacement surgery
- Primary surgery and computer-assisted revision surgery

## Memberships

- Member of the SOFCOT (Société Française de Chirurgie Orthopédique)
- Affiliate international member of the AAOS (American Academy of Orthopedic Surgeons)
- Member of the SFHG (Société Française de la Hanche et du Genou)
- Member of the European Hip Society

## Media

### Press:

- ["Navigation of full knee prosthesis, or when computers invite themselves to the operating theatre..."](#) (November 2020, 50+ magazine)

## Research

### Research work into the following topics:

- Hip replacement surgery, dual-mobility cups
- Knee replacement surgery
- Robotic and guided joint replacement surgery

### Collaborations with:

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

## Awards

- Winner of the Antonin Poncet research prize, Lyon, 2004
  - Winner of the General health prize, SOFCOT national conference 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

## Publications

- Guyen O.**, Chen Q.S., Bejui-Hugues J., Berry D.J., An K.N. Unconstrained tripolar hip implants: effect on hip stability. *Clinical Orthopaedics 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., B ejui-Hugues J. Use of a dual mobility socket to manage total hip arthroplasty instability. *Clinical Orthopaedics 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 Orthopaedics and Related Research* 2010.
- Wegrzyn J., Pibarot V., Chapurlat R., Carret J.P., B ejui-Hugues J., **Guyen O.** Cementless total hip arthroplasty in Paget’s disease of bone: a retrospective review. *International Orthopaedics* 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 Orthopaedics* 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. *Orthopaedics 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 Orthopaedic Research*
- Wegrzyn J., Pibarot V., Jacqu el A., Carret J.P., B ejui-Hugues J., **Guyen O.** Acetabular reconstruction using a Kerboul 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**  
La stabilit e : d emonstration par un mod ele exp erimental.  
In « La double mobilit e en marche dans les proth eses totales de hanche ». Elsevier Masson SAS 2018.
- Guyen O**  
Hemiarthroplasty or total hip arthroplasty in recent femoral neck fractures ? *Orthop Traumatol Surg Res.* 2019

## Handouts Presentations

## Organisation of congresses and conferences

- **Scientific director, Organisation committee member and Chair of “Lyon Hip Day 2012”**, 30 November 2012, in Lyon, based on the topic of “Dual mobility: State of the art in 2012”.
- **Chairman and organiser of the international congress “Dual mobility and its Practice”**, Lausanne, 15 June 2018

## Accreditation

[Clinique de Montchoisi](#)

[Clinique de Genolier](#)

[Clinique Générale Ste-Anne](#)

## Specialties

[Orthopaedic surgery](#)

[Knee pain and knee surgery](#)

[Hip surgery](#)

[Hip prosthesis](#)

[Knee prosthesis](#)

[Osteoarthritis of the knee](#)

[Hip osteoarthritis](#)

[Knee arthroscopy](#)

## Contact

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