SWISS MEDICAL NETWORK



Prof. Dr. med. Olivier Guyen

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

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., Béjui-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., Béjui-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., Jacquel A., Carret J.P., Béjui-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 infirltration 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
Contrained liners, dual mobility or large diameter heads to avoid dislocation in THA. EFORT Open Rev 2017.

Guyen O
La stabilité : démonstration par un modèle expérimental.
In « La double mobilité en marche dans les prothèses 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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