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Curriculum Vitae

Cécile Batailler
Orthopaedic Surgeon, MD, PhD.



Civil Status.

Name	Cécile Batailler
Birth date	May 27, 1988 in Nantua (01)
Nationality	French

Medical cursus.

Claude Bernard University – Lyon 1

2006	Competitive examination after the first year of medicine Successful in Lyon - Rank: 6/688
2006-2012	First and second cycles of medical studies in CHU Lyon
2012	Final national competitive examination of second cycle (Examen Classant National) Successful - Rank: 165/7658 Choice: General surgery in Lyon

Stages as resident in the Hôpitaux de Lyon since 2012:

1^{ere} Year 2012-2013

Nov. 2012 - May 2013: Pediatric visceral surgery in HFME – Pr. Mouriquand

May 2013 - Nov. 2013: Pediatric orthopaedic surgery in HFME – Pr. Chotel

2^e Year 2013-2014

Nov. 2013 - May 2014: Orthopaedic surgery in Orthoclinic – MD Dejour and Bonin

May 2014 - Nov. 2014: Orthopaedic surgery in Edouard Herriot Hospital – Pr Guyen

3^e Year 2014-2015

Nov. 2014 - May 2015: Orthopaedic surgery in Desgenettes Hospital – MD Chauvin

May 2015 - Nov. 2015: Orthopaedic surgery in Centre Albert Trillat – Pr. Neyret

4^e Year 2015-2016

Nov. 2015 – May 2016: Orthopaedic surgery in Renee Sabran Hospital – MD Martres

May 2016 – Nov. 2016: Orthopaedic surgery in Lyon Sud Hospital – Pr. Fessy

5^o Year 2016-2017

Nov. 2016 – May 2017: Hip surgery in Luzern Kantonsspital, Switzerland – Pr. Beck (Fellowship)

May 2017 - Nov. 2017: Orthopaedic surgery in Croix Rouse hospital – Pr. Servien

Fellowship in knee and hip surgery from November 2017 to September 2022 at the department of orthopaedic surgery in Croix Rouse hospital – Prs Servien and Lustig.

Assistant professor in knee and hip surgery since September 2022 at the department of orthopaedic surgery in Croix Rouse hospital – Prs Servien and Lustig.

Diplomas.

- 2022** Accreditation to supervise researches (HDR)
- 2018-2020** Scientific Thesis
Robotic-assisted Unicompartmental Knee arthroplasty and Walking analysis
Thesis director: Pr. Lustig
Successful on 15 December 2020
- 2017-2018** Master II of science in Biomechanics
Comparison of the static alignment and the dynamic alignment of the lower limb for patients with medial femorotibial osteoarthritis.
- 2016** Medicine Thesis
Total hip arthroplasty using direct anterior approach and dual mobility cup: safe and efficient strategy against post-operative dislocation.
Thesis director: Pr. Lustig
Successful with First Class Honours and jury's congratulations
- 2015-2016** Inter university diploma "Arthroscopy" Pr. Neyret.
Research paper: "ACL reconstruction with BTB graft: Technical evolution for combined anterolateral and intra-articular stabilization."
Prize for the best research paper at SFA 2016
- 2015** General Surgery Diploma (DES).
Successful in Lyon - Specialization: Orthopaedic surgery
- 2014-2015** Inter university diploma "Locomotor diseases secondary to sportive practice"
- 2010** Master I of Science
- 2008-2009: Certificate in "Anatomy, imaging and morphogenesis"
- 2009-2010: Certificate in "Psychobiologie"
- 2006** Scientific "Baccalauréat" (High School Certificate), specialized in physics and chemistry, with honors.

Society membership.

National societies

- **SOFCOT** (Société Française de Chirurgie Orthopédique et Traumatologique) since 2013
- **SFA** (Société Francophone d'Arthroscopie) since 2015
- **LYSKS** (Lyon School Knee Surgery) since 2018
- **SFHG** (Société Française de la Hanche et du Genou) since 2022
- **CAOS** (Computer Assisted Orthopaedic Surgery) since 2022

International societies

- **ISHA** (International Society for Hip Arthroscopy) since 2014
- **EHS** (European Hip Society) since 2018
- **EKS** (European Knee Society) since 2022

Other scientific activities

Reviewer for

- **OTSR (rang D)**
- **The Knee (rang C)**
- **Clinical Orthopaedics And Related Research (rang A)**
- **KSSTA (rang B)**
- **Journal of Bone and Joint Surgery (rang A)**
- **Archives of Orthopaedic and Trauma Surgery (rang C)**

Publications.

1. Book chapter

1. Batailler C., Wegrzyn J., Guyen O.,
Surgery of bone metastases. In *Oncology referential of Rhône Alpes Auvergne – Bone metastases - 2ème Edition.*
2. Bonin N., Guicherd W., Batailler C.,
Pathologie cartilagineuse de la hanche. Physiopathologie, diagnostic, traitement, indications et résultats.
In “L’Arthroscopie”. SFA 2015. Ed. Elsevier Masson: 696-710.
3. Batailler C., Sappey-Marinié E., Bonin N.,
Complications of femoroacetabular impingement surgery - a highlight of common complications in published literature.
In “Diagnosis and management of femoroacetabular impingement. An evidence-based approach.”
Editors: Ayeni O. R., Karlsson J., Philippon M. J., Safran M. R. 2016. Ed. Springer. Chap. 17: 229-240.
4. Batailler C., Wascher D., Neyret P.,
Meniscal traumatic lesions in ACL deficient knee: masterly neglect, repair or meniscectomy.
In “Meniscus book” of Hulet C., Pereira H., Peretti G., Denti M.. ESSKA 2016. Ed. Springer-Verlag. Chap 7.2. : 379-392.
5. Batailler C., Lustig S., Wascher D., Servien E., Neyret P.,
Anterolateral ligament history and surgical techniques.
In “Anterior cruciate ligament” 17th journées lyonnaises de chirurgie du genou. 2016.
6. Batailler C., Wascher D., Landreau P., Neyret P.,
Historical Overview of Lateral Tenodesis Procedures and State of the Art in 2016.
In “Operative Techniques in Orthopaedics”. 2017. Ed. Elsevier.
7. Batailler C., Lustig S., Butcher C., Neyret P.,
La prothèse douloureuse : les attentes du chirurgien.
In “Le Genou” (Société d’Imagerie Musculo-Squelettique). Ed Sauramps Medical.
8. Batailler C., Servien E., Magnussen R., Lustig S., Neyret P.,
Return to play following meniscus injuries.
In “Return to Play in Football: An Evidence-Based Approach.” Editors: Musahl V., Karlsson J., Krutsch W., Mandelbaum B., D’Hooghe P. and Espregueira-Mendes J. Congress book of ESSKA 2018.
9. Batailler C., Darwich N., Cerciello S., Neyret P.,
“Le menu à la carte” in patella instability.
In “Aspetar Sports Medicine Journal”.
10. Batailler C., Lustig S.,
Voie antérieure: les difficultés sans table orthopédique.
In “La prothèse totale de hanche dans tous ses états.” Monographie Cahiers d’enseignement de la Sofcot.
Editors: Hutten D. and Mertl P. Ed. Elsevier Masson.
11. Batailler C., Haynes J., Bankhead C., Fricka K., Servien E., Hamilton W., Lustig S.
“The Surgical Steps for Lateral Partial Knee Arthroplasty.”
In “Partial Knee Arthroplasty - An International Contemporary Approach”. Editors: Argenson JN. et Dalury D.
12. Batailler C., White N., Lustig S.,
“Bicompartmental Knee Arthroplasty Techniques: Navio.”
In “Robotics in Knee and Hip Arthroplasty: Current Concepts, Techniques and Emerging Uses”. Editor: Lonner JH.

13. Barnavon T., Batailler C., Lustig S.
 “ The Use of Static Spacers in Periprosthetic Knee Infections”
 Dans “ Infection in Knee Replacement.” Editeurs: Umile Giuseppe Longo, Nicolaas C. Budhiparama, Sébastien Lustig, Roland Becker, João Espregueira-Mendes. Springer. 2020
14. Batailler C., Servien E.
 “Chirurgie combinée : reconstruction du ligament croisé postérieur et ostéotomie d'ouverture antérieure”
 Dans “Les ostéotomies autour du genou.” Monographie Cahiers d’enseignement de la Sofcot. Editeurs: Hutten D. Ollivier M., Ehlinger M. Ed. Elsevier Masson. 2021
15. Batailler C., Parratte S.
 “ Prothèses de genou après ostéotomie.”
 Dans “Les ostéotomies autour du genou.” Monographie Cahiers d’enseignement de la Sofcot. Editeurs: Hutten D. Ollivier M., Ehlinger M. Ed. Elsevier Masson. 2021

2. Articles published in non-referred journals

1. Batailler C., Lustig S., Servien E., Neyret P.,
 Examen Clinique du genou (Pathologies ligamentaires et méniscales).
 MAITRISE ORTHOPEDIQUE. August/September 2016. N°256 (1)
2. Sonnery-Cottet B., Zayni R., Lustig S., Batailler C., Elmajri K., Neyret,
 Le ligament antérolatéral du genou.
 MAITRISE ORTHOPEDIQUE. August/September 2016. N°256 (2)
3. Lustig S, Batailler C.
 From partial to total knee replacement: a journey into the land of robotic surgery.
 MAITRISE ORTHOPEDIQUE. June 2018. N°275
4. Lustig S, Batailler C., Servien E.
 Current indications for hinged prostheses
 MAITRISE ORTHOPEDIQUE. September 2018. N°276
5. Batailler C., Servien E, Lustig S.
 The digital world and knee surgery: a look into the future.
 MAITRISE ORTHOPEDIQUE. October 2020. N°297
6. Batailler C., Shatrov J, Parratte S, Lustig S.
 Artificial intelligence and knee arthroplasty
 MAITRISE ORTHOPEDIQUE. November 2021. N°308
7. Lustig S, Shatrov J, Servien E, Batailler C
 Philosophy of functional alignment in total knee arthroplasty Rationale and technical aspects for varus morphotypes using robotic assistance and preoperative 3D imaging
 MAITRISE ORTHOPEDIQUE. March 2022. N°312
8. Fournier G, Shatrov J, Colas A, Batailler C., Servien E, Lustig S.
 Medial patellofemoral ligament reconstruction is an effective procedure for treating patellar instability after total knee arthroplasty
 MAITRISE ORTHOPEDIQUE. September 2022. N°316
9. Cance N, Batailler C., Shatrov J, Servien E, Ferry T, Lustig S.
 Use of static spacers for periprosthetic knee infections
 MAITRISE ORTHOPEDIQUE. February 2023. N°321

3. Articles published in peer reviewed journals (points SIGAPS : 1295 ; h-index : 24)

1. Batailler C., Fary C., Batailler P., Servien E., Neyret P., Lustig S.
Total hip arthroplasty using direct anterior approach and dual mobility cup: safe and efficient strategy against post-operative dislocation.
Int Orthop. 2016 Nov 16. doi:10.1007/s00264-016-3333-x
2. Batailler C., Fary C., Verdier R., Aslanian T., Caton J., Lustig S.
The evolution of outcomes and indications for the dual-mobility cup: a systematic review.
Int Orthop. 2016 Dec 21. doi: 10.1007/s00264-016-3377-y.
3. Lebon J., Batailler C., Wargny M., Choufani E., Violas P., Fron D., Kieffer J., Accadbled F., Cunin V., De Gauzy J.S.
Magnetically controlled growing rod in early onset scoliosis: a 30-case multicenter study.
Eur Spine J. 2016 Dec 31. doi: 10.1007/s00586-016-4929-y.
4. Musahl V, Getgood A, Neyret P, Claes S, Burnham JM, Batailler C, Sonnery-Cottet B, Williams A, Amis A, Zaffagnini S, Karlsson J.
Contributions of the anterolateral complex and the anterolateral ligament to rotatory knee stability in the setting of ACL Injury: a roundtable discussion.
Knee Surg Sports Traumatol Arthrosc. 2017 Apr; 25(4):997-1008. doi: 10.1007/s00167-017-4436-7. Epub 2017 Mar 12.
5. Cerciello S, Lustig S, Servien E, Batailler C, Neyret P.
Correction of Tibial Valgus Deformity.
J Knee Surg. 2017 Jun;30(5):421-425. doi: 10.1055/s-0037-1603504.
6. Reynaud O, Batailler C, Lording T, Lustig S, Servien E, Neyret P.
Three-dimensional CT analysis of femoral tunnel position after ACL reconstruction. A prospective study of one hundred and thirty five cases.
Int Orthop. 2017 Nov;41(11):2313-2319. doi: 10.1007/s00264-017-3596-x.
7. Herry Y., Batailler C., Lording T., Servien E., Neyret S., Lustig S.
Improved joint line restitution in unicompartmental knee arthroplasty using a robotic-assisted surgical technique.
Int Orthop. 2017 Nov; 41: 2265-2271. doi: 10.1007/s00264-017-3633-9.
8. Panisset JC, Pailhé R, Schlatterer B, Sigwalt L, Sonnery-Cottet B, Lutz C, Lustig S, Batailler C, Bertiaux S, Ehkirch FP, Colombet P, Steltzlen C, Louis ML, D'ingrado P, Dalmay F, Imbert P, Saragaglia D; French Arthroscopy Society.
Short-term complications in intra- and extra-articular anterior cruciate ligament reconstruction. Comparison with the literature on isolated intra-articular reconstruction. A multicenter study by the French Arthroscopy Society.
OTSR. 2017 Dec;103(8S):S231-S236. doi: 10.1016/j.otsr.2017.09.006.
9. Imbert P, Lustig S, Steltzlen C, Batailler C, Colombet P, Dalmay F, Bertiaux S, D'ingrado P, Ehkirch FP, Louis ML, Pailhé R, Panisset JC, Schlatterer B, Sonnery-Cottet B, Sigwalt L, Saragaglia D, Lutz C; French Arthroscopy Society.
Midterm results of combined intra- and extra-articular ACL reconstruction compared to historical ACL reconstruction data. Multicenter study of the French Arthroscopy Society.
OTSR. 2017 Dec; 103(8S):S215-S221. doi: 10.1016/j.otsr.2017.09.005.
10. Batailler C, Bonin N, M Wettstein, Nogier A, Martres S, Ollier E, May O, Lustig S; French Arthroscopy Society (SFA).

- Outcomes of cup revision for ilio-psoas impingement after total hip arthroplasty: Retrospective study of 46 patients.
OTSR. 2017 Dec; 103(8):1147-1153. doi: 10.1016/j.otsr.2017.07.021.
11. Bonin N, Gedouin JE, Pibarot V, Bejui-Hughues J, Bothorel H, Saffarini M, Batailler C.
Proximal femoral anatomy and collared stems in hip arthroplasty: is a single collar size sufficient?
J Exp Orthop. 2017 Oct 3;4(1):32. doi: 10.1186/s40634-017-0107-3.
 12. Cerciello S, Batailler C, Darwich N, Neyret P.
Extra-Articular Tenodesis in Combination with Anterior Cruciate Ligament Reconstruction: An Overview.
Clin Sports Med. 2018 Jan; 37(1):87-100. doi: 10.1016/j.csm. 2017.07.006.
 13. Batailler C, Lustig S, Reynaud O, Neyret P, Servien E.
Complications and revision surgeries in two extra-articular tenodesis techniques associated to anterior cruciate ligament reconstruction. A case-control study.
OTSR. 2018 Apr;104(2):197-201. doi: 10.1016/j.otsr.2017.10.019
 14. Ode Q., Gaillard R., Batailler C., Herry Y., Neyret P., Servien E., Lustig S.
Fewer complications after UKA than TKA in patients over 85 years of age: a case-control study.
OTSR. 2018 Apr 20. doi: 10.1016/j.otsr.2018.02.015.
 15. Batailler C., Weidner J., Wyatt M., Dalmay F., Beck M.
Position of the greater trochanter and functional femoral antetorsion.
Bone Joint J. 2018 Jun 1;100-B(6):712-719. doi: 10.1302/0301-620X.100B6.BJJ-2017-1068.R1.
 16. Batailler C., Neyret P.
Trochlear dysplasia: imaging and treatment options.
EFORT Open Rev. 2018 May 21;3(5):240-247. doi: 10.1302/2058-5241.3.170058
 17. Batailler C., White N., Ranaldi FM., Neyret P., Servien E., Lustig S.
Improved implant position and lower revision rate with robotic-assisted unicompartmental knee arthroplasty.
KSSTA. 2019 Apr;27(4):1232-1240. doi: 10.1007/s00167-018-5081-5
 18. Mouton J., Gaillard R., Bankhead C., Batailler C., Servien E., Lustig S.
Increased Patellar Fracture Rate in Total Knee Arthroplasty With Preoperative Varus Greater Than 15°: A Case-Control Study.
J Arthroplasty. 2018 Dec;33(12):3685-3693. doi: 10.1016/j.arth.2018.08.001.
 19. Canetti R., Batailler C., Bankhead C., Neyret P., Servien E., Lustig S.
Faster return to sport after robotic-assisted lateral unicompartmental knee arthroplasty: a comparative study.
Arch Orthop Trauma Surg. 2018 Dec;138(12):1765-1771. doi:10.1007/s00402-018-3042-6.
 20. Batailler C., Fary C., Servien E., Lustig S.
Influence of femoral broach shape on stem alignment using anterior approach for total hip arthroplasty: A radiologic comparative study of 3 different stems.
PLoS One. 2018 Oct 5;13(10):e0204591. doi: 10.1371/journal.pone.0204591.
 21. Gaillard R, Bankhead C, Budhiparama N, Batailler C, Servien E, Lustig S.
Influence of Patella Height on Total Knee Arthroplasty: Outcomes and Survival.
J Arthroplasty. 2019 Mar;34(3):469-477. doi: 10.1016/j.arth.2018.10.037
 22. Deroche E, Batailler C, Lording T, Neyret P, Servien E, Lustig S.
High Survival Rate and Very Low Wear of Lateral Unicompartmental Arthroplasty at Long Term: A Case Series of 54 Cases at a Mean Follow-Up of 17 Years.

- J Arthroplasty. 2019 Jan 29. doi: 10.1016/j.arth.2019.01.053.
23. Schneider A, Gaillard R, Gunst S, Batailler C, Neyret P, Lustig S, Servien E. Combined ACL reconstruction and opening wedge high tibial osteotomy at 10-year follow-up: excellent laxity control but uncertain return to high level sport. *Knee Surg Sports Traumatol Arthrosc.* 2019 Jul. doi: 10.1007/s00167-019-05592-2
 24. Batailler C, Rozinthe A, Mercier M, Bankhead C, Gaillard R, Lustig S. Return to Sport After Bilateral Single Stage Total Hip Arthroplasty Using the Direct Anterior Approach: A Case Control Study. *J Arthroplasty.* 2019 Jun. doi: 10.1016/j.arth.2019.06.054.
 25. Gaillard R, Kenney R, Delalande JL, Batailler C, Lustig S. Ten- to 16-Year Results of a Modern Cementless Dual-Mobility Acetabular Implant in Primary Total Hip Arthroplasty. *J Arthroplasty.* 2019 Jun. doi: 10.1016/j.arth.2019.06.051.
 26. Gaillard R, Magnussen R, Batailler C, Neyret P, Lustig S, Servien E. Anatomic risk factor for meniscal lesion in association with ACL rupture. *J Orthop Surg Res.* 2019 Jul;14(1):242. doi: 10.1186/s13018-019-1281-z.
 27. Josse J, Valour F, Maali Y, Diot A, Batailler C, Ferry T, Laurent F. Interaction Between Staphylococcal Biofilm and Bone: How Does the Presence of Biofilm Promote Prosthesis Loosening? *Front Microbiol.* 2019 Jul;10:1602. doi: 10.3389/fmicb.2019.01602.
 28. Schmidt A, Batailler C, Fary C, Servien E, Lustig S. Dual Mobility Cups in Revision Total Hip Arthroplasty: Efficient Strategy to Decrease Dislocation Risk. *J Arthroplasty.* 2019 Sep 5. doi: 10.1016/j.arth.2019.08.060.
 29. Rouquette L, Batailler C, Muller B, Neyret P, Servien E, Lustig S. Early complications and causes of revision after rotating-hinge TKA. *Arch Orthop Trauma Surg.* 2019 Oct 29. doi: 10.1007/s00402-019-03290-9.
 30. Batailler C, Weidner J, Wyatt M, Pfluger D, Beck M. Is the Femoro-Epiphyseal Acetabular Roof (FEAR) index on MRI a relevant predictive factor of instability in a borderline dysplastic hip? *Bone Joint J.* 2019 Dec;101-B(12):1578-1584. doi: 10.1302/0301-620X.101B12.BJJ-2019-0502.R1.
 31. Ferry T, Trecourt A, Batailler C, Brevet M; Lyon BJI Study group. Plasma cell infiltration in a 28-year-old patient with chronic indolent fracture-related tibial infection due to *Cutibacterium acnes*. *BMJ Case Rep.* 2019 Dec 15;12(12). doi: 10.1136/bcr-2019-232345.
 32. Fournier G, Muller B, Gaillard R, Batailler C, Lustig S, Servien E. Increased survival rate for primary TKA with tibial short extension stems for severe varus deformities at a minimum of 2 years follow-up. *Knee Surg Sports Traumatol Arthrosc.* 2020 Jan 21. doi: 10.1007/s00167-020-05848-2.
 33. Batailler C, Fary C, Denjean S, Gaillard T, Lustig S. High Midterm Survival Rate of Uncemented Total Knee Arthroplasty After High Tibial Osteotomy: A Case-Control Study. *J Arthroplasty.* 2020 Jan 25. doi: 10.1016/j.arth.2020.01.054.
 34. Becker A, Kreitmann L, Triffaut-Fillit C, Valour F, Mabrut E, Forestier E, Lesens O, Cazorla C, Descamps S, Boyer B, Chidiac C, Lustig S, Montbarbon E, Batailler C, Ferry T.

Duration of rifampin therapy is a key determinant of improved outcomes in early-onset acute prosthetic joint infection due to *Staphylococcus* treated with a debridement, antibiotics and implant retention (DAIR): a retrospective multicenter study in France.
J Bone Jt Infect. 2020 Feb 10;5(1):28-34. doi: 10.7150/jbji.40333.

35. Lustig S, Ehlinger M, Vaz G, Batailler C, Putman S, Pasquier G.
Hinged knee prostheses: To be used with due consideration, but indispensable in complex situations.
Orthop Traumatol Surg Res. 2020 Mar 17. doi: 10.1016/j.otsr.2020.03.001.
36. Joseph L, Batailler C, Roger J, Swan J, Servien E, Lustig S.
Patellar component size effects patellar tilt in total knee arthroplasty with patellar resurfacing.
Knee Surg Sports Traumatol Arthrosc. 2020 Apr 9. doi: 10.1007/s00167-020-05984-9.
37. Batailler C, Malemo Y, Demey G, Kenney R, Lustig S, Servien E.
Cemented vs Uncemented Femoral Components: A Randomized, Controlled Trial at 10 Years Minimum Follow-Up.
J Arthroplasty. 2020 Apr 1. doi: 10.1016/j.arth.2020.03.043
38. Castoldi M, Magnussen RA, Gunst S, Batailler C, Neyret P, Lustig S, Servien E.
A Randomized Controlled Trial of Bone-Patellar Tendon-Bone Anterior Cruciate Ligament Reconstruction With and Without Lateral Extra-articular Tenodesis: 19-Year Clinical and Radiological Follow-up.
Am J Sports Med. 2020 May doi: 10.1177/0363546520914936.
39. Plassard J, Masson JB, Malatray M, Swan J, Luceri F, Roger J, Batailler C, Servien E, Lustig S.
Factors lead to return to sports and recreational activity after total knee replacement - A retrospective study.
SICOT J. 2020;6:11. doi: 10.1051/sicotj/2020009.
40. Luceri F, Basilico M, Batailler C, Randelli PS, Peretti GM, Servien E, Lustig S.
Effects of sagittal tibial osteotomy on frontal alignment of the knee and patellar height.
Int Orthop. 2020 May 9. doi: 10.1007/s00264-020-04580-3.
41. Mergenthaler G, Batailler C, Lording T, Servien E, Lustig S.
Is robotic-assisted unicompartmental knee arthroplasty a safe procedure? A case control study.
Knee Surg Sports Traumatol Arthrosc. 2020 May 10. doi: 10.1007/s00167-020-06051-z.
42. Foissey C, Batailler C, Fary C, Luceri F, Servien E, Lustig S.
Transitioning the total hip arthroplasty technique from posterior approach in lateral position to direct anterior approach in supine position-risk factors for acetabular malpositioning and the learning curve.
Int Orthop. 2020 Sep;44(9):1669-1676. doi: 10.1007/s00264-020-04583-0
43. Schmidt A, Batailler C, Lording T, Badet R, Servien E; Writing Committee, Lustig S.
Why Reintervention After Total Knee Arthroplasty Fails? A Consecutive Cohort of 1170 Surgeries.
J Arthroplasty. 2020 Sep;35(9):2550-2560. doi: 10.1016/j.arth.2020.04.043
44. Sappey-Marinié E, Batailler C, Swan J, Malatray M, Cheze L, Servien E, Lustig S.
Primary osteoarthritic knees have more varus coronal alignment of the femur compared to young non-arthritic knees in a large cohort study.
Knee Surg Sports Traumatol Arthrosc. 2020 Jun 1. doi: 10.1007/s00167-020-06083-5.
45. Foissey C, Fauvernier M, Fary C, Servien E, Lustig S, Batailler C.
Total hip arthroplasty performed by direct anterior approach - Does experience influence the learning curve?
SICOT J. 2020;6:15. doi: 10.1051/sicotj/2020015.
46. Neri T, Boyer B, Batailler C, Klasan A, Lustig S, Philippot R, Farizon F.
Dual mobility cups for total hip arthroplasty: tips and tricks.

SICOT J. 2020;6:17. doi: 10.1051/sicotj/2020018.

47. Sappey-Marini r E, Pauvert A, Batailler C, Swan J, Cheze L, Servien E, Lustig S.
Kinematic versus mechanical alignment for primary total knee arthroplasty with minimum 2 years follow-up: a systematic review.
SICOT J. 2020;6:18. doi: 10.1051/sicotj/2020014.
48. Sappey-Marini r E, Swan J, Batailler C, Servien E, Lustig S.
No clinical benefit from gender-specific total knee replacement implants: a systematic review.
SICOT J. 2020;6:25. doi: 10.1051/sicotj/2020023. Epub 2020 Jul 3.
49. Ferry T, Batailler C, Brosset S, Kolenda C, Goutelle S, Sappey-Marini r E, Josse J, Laurent F, Lustig S; Lyon BJI Study Group.
Medical innovations to maintain the function in patients with chronic PJI for whom explantation is not desirable: a pathophysiology-, multidisciplinary-, and experience-based approach.
SICOT J. 2020;6:26. doi: 10.1051/sicotj/2020021.
50. Henri Bauwens P, Fary C, Servien E, Lustig S, Batailler C.
Early low complication rate of ceramic-on-ceramic total hip arthroplasty by direct anterior approach.
SICOT J. 2020;6:30. doi: 10.1051/sicotj/2020027.
51. Ferry T, Batailler C, Petitjean C, Chateau J, Fevre C, Forestier E, Brosset S, Leboucher G, Kolenda C, Laurent F, Lustig S.
The Potential Innovative Use of Bacteriophages Within the DAC® Hydrogel to Treat Patients With Knee Megaprosthesis Infection Requiring "Debridement Antibiotics and Implant Retention" and Soft Tissue Coverage as Salvage Therapy.
Front Med (Lausanne). 2020 Jul 31;7:342. doi: 10.3389/fmed.2020.00342.
52. Luceri F, Tamini J, Ferrua P, Ricci D, Batailler C, Lustig S, Servien E, Randelli PS, Peretti GM.
Total knee arthroplasty after distal femoral osteotomy: a systematic review and current concepts.
SICOT J. 2020;6:35. doi: 10.1051/sicotj/2020033.
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SICOT J. 2023;9:15. doi: 10.1051/sicotj/2023012.
135. Foissey C, Batailler C, Vahabi A, Fontalis A, Servien E, Lustig S.

Combination of a High Residual Varus and Joint-Line Lowering Strongly Increases the Risk of Early Implant Failure in Medial Unicompartmental Knee Arthroplasty.
J Arthroplasty. 2023 Jun 2:S0883-5403(23)00579-X. doi: 10.1016/j.arth.2023.05.055.

136. Cance N, Batailler C, Canetti R, Servien E, Lustig S.
Tibial tubercle osteotomy during the revision of total knee arthroplasty: The technique of a referral center with 10 years of experience.
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137. Mabrouk A, Ollivier M, Fayard JM, Batailler C, Bougennec N, Tardy N, Rochcongar G.
High Tibial Osteotomy is Equally Effective for Varus Malaligned Knees with either Virgin or Wrecked Medial Meniscus: An Age and Gender Matched Secondary Analysis of a Francophone Arthroscopy Society Symposium.
Orthop Traumatol Surg Res. 2023 Jun 24:103650. doi: 10.1016/j.otsr.2023.103650.
138. Cance N, Batailler C, Shatrov J, Canetti R, Servien E, Lustig S.
Tibial Tubercle Osteotomy in Revision Total Knee Arthroplasty for Periprosthetic Infection: Indications and Outcomes.
J Bone Joint Surg Am. 2023 Jul 12. doi: 10.2106/JBJS.23.00256.
139. Merad Y, Conrad A, Brosset S, Schmidt A, Hanriat C, Lustig S, Laurent F, Kolenda C, Roussel-Gaillard T, Batailler C, Ferry T; Lyon BJI Study group.
Case report: Continuous infusions of ceftazidime-avibactam and aztreonam in combination through elastomeric infusers for 12 weeks for the treatment of bone and joint infections due to metallo- β -lactamase producing Enterobacterales.
Front Med (Lausanne). 2023 Aug 3;10:1224922. doi: 10.3389/fmed.2023.1224922.
140. Favroul C, Batailler C, Naaim A, Foissey C, Kafelov M, Cheze L, Servien E, Lustig S.
Cruciate-substituting and posterior-stabilised total knee arthroplasties had similar gait patterns in the short term.
Knee Surg Sports Traumatol Arthrosc. 2023 Sep 26. doi: 10.1007/s00167-023-07594-7.
141. Kafelov M, Farhat J, Servien E, Lustig S, Batailler C.
New measurement technique for restoration of the trochlear offset after image-based robotic-assisted total knee arthroplasty: a reliability study.
SICOT J. 2023;9:29. doi: 10.1051/sicotj/2023027.

4. Communications.

1. Batailler C., Cunin V.,
Résultats préliminaires d'une série de 32 scolioses à début précoce traitées par tige de croissance électromagnétique Magec®.
89^{ème} SoFCOT Congress, Paris, France, November 2014.
2. Servien E., Batailler C.,
MPFL reconstructions: complications and how to manage these.
10th ISAKOS Congress, Lyon, France, June 2015.
3. Neyret P., Batailler C., Schneider A., Servien E.,
Untreated ACL rupture and future osteoarthritis does surgery change the risk and treatment of ACL-deficiency in the arthritic knee?
Fisic'15, London, United Kingdom, October 2015.
4. Batailler C., Dejour D., Demey G.,

False negative on MRI for medial meniscus tears, tibial plateau bone bruise is an indirect sign.
SFA Congress, Grenoble, France, December 2015.

5. Neyret P., Batailler C., Servien E., Lustig S.,
Return to sport after ACL surgery. My experience and the scene in Europe.
10th Congress, ChonQing, Chine, November 2015.
6. Batailler C., Neyret P., Servien E., Lustig S.,
Return to play after meniscal injuries.
Isokinetic Football Medicine Conference, London, United Kingdom, April 2016.
7. Batailler C., Reynaud O., Lording T., Servien E., Lustig S., Neyret P.,
Tunnel constraints: Femoral tunnel positioning
17th Journée Lyonnaises du Genou, Lyon, France, September 2016.
8. Batailler C., Servien E., Neyret P., Lustig S.,
Total hip arthroplasty using direct anterior approach and dual mobility cup: safe and efficient strategy
against post-operative dislocation.
91^{ème} SoFCOT Congress, Paris, France, November 2016.
9. Batailler C., Servien E., Neyret P., Lustig S.,
ACL reconstruction with BTB graft: Technical evolution for combined anterolateral and intra-articular
stabilization.
SFA Congress, Paris, France, December 2016.
10. Batailler C., Nogier A., Lustig S., Martres S.,
Acetabular revision for psoas impingement. A retrospective study.
Symposium, SFA Congress, Paris, France, December 2016.
11. Batailler C., Bonin N., Guicherd W., Lustig S., May O.
Conflit iliopsoas après prothèse totale de hanche.
2nd SOFCOT E-Congress, Paris, France, April 2017.
12. Batailler C., Servien E., Lustig S.,
Rationale of Dual Mobility in French and international literature.
Lyon Hip Arthroplasty Congress, Lyon, France, April 2017.
13. Batailler C., Servien E., Lustig S.,
Arthrolyse arthroscopique et à ciel ouvert.
Journées lyonnaises du genou, Lyon, France, September 2018.
14. Batailler C., White N., Ranaldi F., Neyret P., Servien E., Lustig S.,
Improved implant position and lower revision rate with robotic-assisted unicompartmental knee
arthroplasty. Case control study.
SoFCOT Congress, Paris, France, November 2018.
15. Batailler C., Naaim A., Cheze L., Lustig S.,
Knee kinematic analysis and unicompartmental knee arthroplasty.
Biomechanical conference.
SoFCOT Congress, Paris, France, November 2018.
16. Batailler C., Fary C., Servien E., Lustig S.,
Influence of femoral broach shape on stem alignment using anterior approach for total hip arthroplasty:
A radiologic comparative study of 3 different stems.
SoFCOT Congress, Paris, France, November 2018.
17. Mercier M., Batailler C., Gaillard R., Rozinthe A., Servien E., Lustig S.,

Return to sport after bilateral single stage total hip arthroplasty using direct anterior approach: a case control study.

SoFCOT Congress, Paris, France, November 2018.

18. Batailler C., Sappey E., Canetti R., Neyret P., Servien E., Lustig S.
Functional and radiologic improvement after robotic-assisted lateral UKA. A comparative study.
EFORT Congress, Lisbon, Portugal, June 2019.
19. Batailler C., Pansard E., Nogier A.
Arthroscopy and total hip arthroplasty.
Education lecture – SFA Congress, Rennes, France, December 2019.
20. Batailler C., Lustig S., Servien E.
Should we aim a valgus axis for the high tibial osteotomy?
Symposium, SFA Congress, Rennes, December 2019.
21. Batailler C., Servien E., Lustig S.
Indications: Age, weight, activity, wear. Symposium SFA.
Journées lyonnaises du genou, Lyon, France, September 2020.
22. Batailler C., Servien E., Lustig S.
Technology for implant positioning. Robotic – Navio
Journées lyonnaises du genou, Lyon, France, September 2020.
23. Batailler C., Servien E., Lustig S.
Current state of the art – Robotic TKA – navio
Journées lyonnaises du genou, Lyon, France, September 2020.
24. Batailler C., Foissey C., Fary C., Naaim A., E. Servien, S. Lustig
Revision total stabilized versus primary posterior stabilized knee prostheses: Is there any kinematic differences during the gait? A prospective case control study
World Arthroplasty Congress, Virtual congress, April 2021.
25. Batailler C., Malemo Y., Demey G., Kenney R., Lustig S., Servien E.
Cemented versus uncemented femoral components: A randomized control trial at 10 years FU.
ESSKA Congress, Virtual Congress, May 2021.
26. Batailler C., Servien E., Lustig S.
CAOS Technologies: Which benefits for the patient ? Knee Arthroplasty.
CAOS Congress, Virtual Congress, June 2021.
27. Batailler C., Lording T., Naaim A., Servien E., Cheze L., Lustig S.
No difference of gait parameters with image-free robotic-assisted medial UKA compared to conventional technique. Early results of a RCT.
EFORT Congress, Virtual Congress, July 2021.
28. Batailler C., Lording T., Naaim A., Servien E., Cheze L., Lustig S.
No difference of gait parameters with image-free robotic-assisted medial UKA compared to conventional technique. Early results of a RCT.
BOA Congress, Aberdeen, Scotland, Septembre 2021.
29. Batailler C., Mesnard G., Fary C., Servien E., Lustig S.
Posterior-Stabilized TKA in Patients With Severe Genu Recurvatum Achieves Good Clinical and Radiological Results at 5-year Minimum Follow-Up: A Case-Controlled Study.
SOFOT Congress, Paris, France, November 2021.
30. Batailler C., Lording T., Naaim A., Servien E., Cheze L., Lustig S.

No difference of gait parameters with image-free robotic-assisted medial UKA compared to conventional technique. Early results of a RCT.
SOFCOT Congress, Paris, France, November 2021.

31. Batailler C., Bordes M., Nigues A., Lording T., Servien E., Calliess T., Lustig S.
Improved sizing with image-based robotic-assisted system compared to image-free and conventional techniques in medial unicompartmental knee arthroplasty.
SOFCOT Congress, Paris, France, November 2021.
32. Erard J, Schmidt A, Batailler C, Shatrov J, Servien E, Lustig S
High tibial osteotomy in young patients with constitutional deformity is an efficient strategy before a total knee arthroplasty: a long-term comparative study.
ESSKA, Paris, France, April 2022.
33. Ly L, Batailler C, Shatrov J, Servien E, Lustig S.
Satisfactory Outcomes of All-Poly Fixed Bearing Unicompartmental Knee Arthroplasty for Avascular Osteonecrosis Versus Osteoarthritis: A Comparative Study With 10 to 22 Years of Follow-up.
ESSKA, Paris, France, April 2022.
34. Batailler C, Colas A, Shatrov J, Fournier G, Servien E, Lustig S.
Medial patellofemoral ligament reconstruction is an efficient procedure to treat patellar instability following TKA.
EKS closed meeting, Gleneagles, Scotland, May 2022.
35. Batailler C, Parratte S., Lustig S.
Artificial Intelligence. Next Level Of Innovation?
EFORT, Lisbonne, Portugal, June 2022.
36. Batailler C, Foissey C., Lustig S.
When And How To Use Knee Small Implants. Uni Solo and Combined Unis.
EFORT, Lisbonne, Portugal, June 2022.
37. Batailler C, Sappey Marinier E., Servien E., Lustig S.
Personalized knee arthroplasty.
EFORT, Lisbonne, Portugal, June 2022.
38. Batailler C, Erard J., Schmidt A., Shatrov J., Servien E., Lustig S.
High tibial osteotomy in young patients with constitutional deformity is an efficient strategy before a total knee arthroplasty : a long-term comparative study.
EFORT, Lisbonne, Portugal, June 2022.
39. Batailler C, Sappey Marinier E., Meynard P., Shatrov J., Schmidt A., Cheze L., Servien E., Lustig S.
Arithmetic alignment is an efficient tool to anticipate functional coronal alignment for varus knees: a consecutive analysis of 749 primary osteoarthritic knees with stress radiographs.
EFORT, Lisbonne, Portugal, June 2022.
40. Batailler C, Parratte S., Van Overschelde P., Bandi M., Ozturk B.
Robotically Assisted Anatomic-Functional Implant Positioning Technique Versus Adjusted Mechanical Alignment With Conventional Technique. A Retrospective Comparative Study.
EFORT, Lisbonne, Portugal, June 2022.
41. Batailler C, Daxhelet J., Lustig S., Ollivier M., Parratte S.
Impact Of The Diaphyseal Femoral Deformity On The Lower Limb Alignment In Osteoarthritic Varus Knees.
EFORT, Lisbonne, Portugal, June 2022.
42. Vezole L., Shatrov J., Batailler C, Lustig S., Servien E.

What is the best fixation method in medial patellofemoral ligament reconstruction?
A biomechanical comparison of 5 common methods for the patella and femoral graft attachment
EFORT, Lisbonne, Portugal, June 2022.

43. Ly L., Batailler C, Shatrov J., Lustig S., Servien E.
Long-Term Outcomes & Survivorship of UKA for Spontaneous OsteoNecrosis of the Knee VS Medial OsteoArthritis. A comparative study : 10 to 22 years follow up.
EFORT, Lisbonne, Portugal, June 2022.
44. Batailler C, Dejour D., Demey G., Fayard JM., Lustig S., Servien E.
Results: a retrospective multicentric study of LYSKS
Journées lyonnaises du genou, Lyon, France, September 2022.
45. Batailler C, Ly L., Shatrov J., Lustig S., Servien E.
Long-Term Outcomes & Survivorship of UKA for Spontaneous OsteoNecrosis of the Knee VS Medial OsteoArthritis. A comparative study : 10 to 22 years follow up.
EKS, Munich, Germany, October 2022.
46. Batailler C., Formentin C., Servien E, Lustig S.
Lower revision rate with robotic-assisted UKA at a minimum follow-up of 5 years. A case control study.
EKS, Munich, Germany, October 2022.
47. Batailler C., Cance N., Canetti R., Vahabi A., Servien E, Lustig S.
Tibial tubercule osteotomy in Revision TKA : contemporary outcomes in 135 Knees.
EKS, Munich, Germany, October 2022.
48. Lustig S., Cance N., Canetti R., Vahabi A., Servien E, Batailler C.
Tibial tubercule osteotomy in Revision TKA : contemporary outcomes in 135 Knees.
AAHKS, Dallas, USA, November 2022.
49. Batailler C., Ferry T., Lustig S.
Evolution de la place des RCP.
Table ronde CRIOA
SOFcot, Paris, France, Novembre 2022.
50. Batailler C., Servien E, Lustig S.
Que nous apprend la littérature récente sur ces nouvelles technologies (navigation, PSI) ?
Table ronde Ostéotomie pour Genu Varum Arthrosique.
SOFcot, Paris, France, Novembre 2022.
51. Batailler C., Servien E., Lustig S.
Alignement et conservation du LCP.
Veille Technologique SFHG : Doit-on réexplorer la conservation du LCP dans les PTG ?
SOFcot, Paris, France, Novembre 2022.
52. Batailler C., Shatrov J., Foissey C., Servien E., Lustig S.
Combien de temps dure une PTG robotisée pendant la phase d'apprentissage ?
Analyse des étapes clés des 50 premiers cas.
SOFcot, Paris, France, Novembre 2022.
53. Batailler C., Rob E., Servien E., Lustig S.
Taux de complications précoces similaires après PTH bilatérale par voie directe antérieure en un temps vs deux temps : à propos de 264 hanches.
SOFcot, Paris, France, Novembre 2022.
54. Batailler C., Formentin C., Servien E., Lustig S.
Taux de révision inférieur après PUC assistée par robot à un suivi minimum de 5 ans. Une étude cas-témoins.

SOFCOT, Paris, France, Novembre 2022.

55. Cance N., Batailler C., Canetti R., Servien E., Lustig S.
L'ostéotomie de la TTA durant les révisions de PTG est une procédure efficace avec un faible taux de complications.
SOFCOT, Paris, France, Novembre 2022.
56. Ly L., Batailler C., Shatrov J., Servien E., Lustig S.
Résultats cliniques Prothèses UniCompartmentales pour Ostéonécrose Avasculaire VS Arthrose. Etude comparative : 10 à 22 ans de suivi.
SOFCOT, Paris, France, Novembre 2022.
57. Erard J., Batailler C., Schmidt A., Shatrov J., Servien E., Lustig S.
Meilleure survie du genou chez le patient jeune ayant une déformation constitutionnelle et une arthrose unicompartmentale traitée par OTV puis PTG en comparaison à la mise en place d'une PTG d'emblée. Une étude comparative avec un minimum de 10 ans de recul.
SOFCOT, Paris, France, Novembre 2022.
58. Vialla T., Schmidt A., Shatrov J., Sappey Marinier E., Batailler C., Servien E., Lustig S.
Résultats cliniques satisfaisants et faible taux d'échec d'une reconstruction isolée du MPFL pour instabilité patellaire récidivante avec un suivi minimum de 10 ans.
SOFCOT, Paris, France, Novembre 2022.
59. Batailler C., Cance N., Canetti R., Vahabi A., Servien E, Lustig S.
Tibial tubercule osteotomy in Revision TKA : contemporary outcomes in 135 Knees.
MAST 9, Thessaloniki, Greece, December 2022.
60. Parratte S., Daxelet J, Batailler C.
Specific tibial landmarks improve the accuracy of the coronal axis of the tibial cut during total knee arthroplasty. A case control study
EKS Closed Meeting, Kitzbühel, Austria, January 2023
61. Foissey C, Batailler C, Vahabi A, Servien E, Lustig S.
Combination of a high residual varus and joint-line lowering strongly increases the risk of early implant failure in medial unicompartmental knee arthroplasty.
EKS Closed Meeting, Kitzbühel, Austria, January 2023
62. Batailler C., Cance N., Canetti R., Vahabi A., Servien E, Lustig S.
Tibial tubercule osteotomy in Revision TKA : contemporary outcomes in 135 Knees.
AAOS, Las Vegas, USA, March 2023.
63. Batailler C., Lustig S.
Implants sizing and total knee arthroplasty.
SFHG, Avignon, France, March 2023.
64. Batailler C., Lustig S.
Met And Unmet Needs With Robotic Surgery Met Needs: Clinical and Functional Outcomes
EFORT, Vienna, Austria, May 2023.
65. Batailler C., Lustig S.
Patient Expectations And Results: The Dawn Of The Failure
EFORT, Vienna, Austria, May 2023.
66. Batailler C., Cance N., Canetti R., Vahabi A., Servien E, Lustig S.
Tibial tubercule osteotomy in Revision TKA : contemporary outcomes in 135 Knees.
EFORT, Vienna, Austria, May 2023.
67. Foissey C, Batailler C, Vahabi A, Servien E, Lustig S.

Combination of a high residual varus and joint-line lowering strongly increases the risk of early implant failure in medial unicompartmental knee arthroplasty.
EFORT, Vienna, Austria, May 2023.

68. Batailler C., Lustig S.
Impingement with soft tissues. How to perform acetabular revision?
Lyon Hip Arthroplasty, Lyon, France, September 2023.
69. Batailler C., Lustig S.
CRIOAc / National Data / LHA experience
Lyon Hip Arthroplasty, Lyon, France, September 2023.
70. Batailler C., Lustig S.
Cases based: Custom Implants
Lyon Hip Arthroplasty, Lyon, France, September 2023.
71. Batailler C., Erard J., Lustig S.
Ligament Balance in Image-Based Robotic-Assisted TKA with Functional Alignment: An Objective Assessment using Intraoperative Sensor Technology
ISTA, New York, USA, September 2023.
72. Batailler C., Lustig S.
Enhancing Precision in Total Knee Arthroplasty: A Novel Classification for Assessing Bone Resection Accuracy of Image-Based Robotic-Assisted Surgery Compared to Conventional Techniques
ISTA, New York, USA, September 2023.
73. Lustig S., Kafelov M., Batailler C.
The Impact of Image-Based Robotic-Assisted Total Knee Arthroplasty with Functional Alignment Principles: Anterior Compartment Restoration and One-Year Follow-Up Results.
ISTA, New York, USA, September 2023.

5. Posters.

1. Batailler C., Scalabre A., Hameury F.,
Embolie gazeuse cérébrale lors d'un trajet en avion chez une fille de 3 ans présentant un kyste pulmonaire.
70ème SFCP Congress, St Malo, France, September 2013.
2. Bonin N., Batailler C.,
Can all hip arthroscopy procedures be performed on an outpatient basis? Protocol and results at one year.
ISHA Congress, Cambridge, UK, September 2015.
3. Lustig S., Batailler C., Lording T., De Massari D., Witvoet-Braam S., Servien E., Bini S.
Predictive models for clinical outcomes in TKA. A systematic analysis
SICOT, Budapest, Hungary, September 2021.
4. Foissey C., Batailler C., Fary C., Servien E., Lustig S.
THA performed by direct anterior approach does experience influence the learning curve?
EHS, Lille, France, September 2021.
5. Batailler C., Parratte S.,
Technologies assistives en arthroplastie du genou : effet de mode ou évolution ? Le nombre de publications et les registres nationaux démontrent l'inexactitude de la parabole de Scott.

SOFCOT, Paris, France, November 2021.

6. Batailler C., Parratte S.,
Prothèses totales de genou bilatérales simultanées réalisées avec assistance robotique : une procédure fiable sans risque additionnel de complication. Étude cas témoin.
SOFCOT, Paris, France, November 2021.
7. Batailler C., Parratte S.,
Résultats cliniques d'une prothèse unicompartmentale médiale morphométrique à plateau fixe. Étude prospective multicentrique à 2 ans minimum de recul.
SOFCOT, Paris, France, November 2021.
8. Motesharei A., Batailler C., De Massari D., Vincent G., Chen A., Lustig S.
Predicting robotic-assisted total knee arthroplasty operative time: Benefits of machine learning and 3D patient specific data.
EFORT, Lisbonne, Portugal, June 2022
9. Batailler C., Shatrov J, Schmidt A, Servien E, Puch JM, Lustig S.
Similar stress repartition for a standard uncemented collared femoral stem versus a shortened collared femoral stem.
EFORT, Lisbonne, Portugal, June 2022.
10. Batailler C., Formentin C., Servien E, Lustig S.
Lower revision rate with robotic-assisted UKA at a minimum follow-up of 5 years. A case control study.
EFORT, Lisbonne, Portugal, June 2022.
11. Motesharei A., Batailler C., De Massari D., Vincent G., Chen A., Lustig S.
Predicting robotic-assisted total knee arthroplasty operative time: Benefits of machine learning and 3D patient specific data.
EKS, Munich, Germany, October 2022

Current research

- **Prospective randomized study:** Robotic-assisted UKA versus conventional UKA (Co-Investigator).
- **Prospective randomized study:** TKA with patellar resurfacing versus TKA without patellar resurfacing.
- **Prospective study:** Assessment at short term of the gait kinematics after primary TKA (Stryker) versus after revision TKA. Prospective and controlled study (Co-Investigator).
- **Prospective randomized study:** Assessment at short term of the gait kinematics after primary TKA (Medacta) with kinematic alignment versus mechanical alignment. Prospective and randomized study (Co-Investigator).
- **Prospective randomized study:** CERAMENT®|G to promote and protect bone healing as an adjunct in one stage surgical debridement and systemic antibiotics for treatment of Cierny and Mader Type III and IV chronic Osteomyelitis (Co-Investigator).
- **Prospective study:** Protocole de recherche clinique non-interventionnelle catégorie 3 d'expertise bio-tribo-minéralogique de particules d'usure d'implants articulaires de hanche : MiNaPUIH (MINéralo Nano Pathologie Usure Implants Hanche) (Investigator).
- **Retrospective study:** Retrospective study to identify the incidence, risk factors and outcomes of prosthetic joint infection due to Staphylococcus aureus after primary knee or hip joint replacement (Investigator).
- **Prospective randomized study:** Robotic -assisted TKA cemented versus cementless (Co-Investigator).

Fellowship and Awards

Fellowship

- **EKS Travelling Fellowship.** November 2019
- **Research fellowship - International Knee and Joint Centre, Abu Dhabi – Pr S. Parratte.** November 2020 to October 2021

International Prizes

- **EFORT Jacques Duparc Poster Awards** ("Predictive Models For Clinical Outcomes In Total Knee Arthroplasty: A Systematic Analysis.") Juin 2021
- **EFORT Free Paper Award Orthopaedics** ("No Difference Of Gait Parameters In Patients With Image-Free Robotic-Assisted Medial Unicompartmental Knee Arthroplasty Compared To A Conventional Technique: A Randomized Controlled Trial") Juin 2021

National Prizes

- **Awards Best Knee communication of SFHG** ("Posterior-Stabilized TKA in Patients With Severe Genu Recurvatum Achieves Good Clinical and Radiological Results at 5-year Minimum Follow-Up: A Case-Controlled Study.") November 2021
- **Awards for clinical research (Academy of Surgery)** - with the support of Johnson & Johnson ("Kinematic and static analyses of the lower limb after installation of internal UKAs implanted either with a mechanical ancillary device or robotic assistance.") September 2021
- **Grant from the French Society of Orthopedic and Trauma Surgery (SOFOT)** for an international research fellowship. 2020
- **Grant from the Hospices Civils de Lyon** for an international research fellowship. 2020

Teaching activities.

1. **Anatomy Instructor** in anatomy laboratory of Lyon Grange Blanche in 2007-2008 ; 2008-2009 ; 2009-2010.
2. **Knee surgery course : 2017-2021.**
3. **Orthopaedic implants course : 2017-2021.**
4. **International course – ESTRO : 2017-2018.**
Upper limb school – Octobre 2017 – Ankara, Turquie
Lower limb school – April 2018 – Lyon, France.
5. **Basic course of Orthopedics for French medical student in Lyon University: 2017-2021.**

- 6. AO Recon Course Hip and Knee arthroplasty Primary and revision: 2022-2023**
- 7. RTKA Mastercourse, Nijmegen Netherlands, June 2023**

Languages.

English Good working knowledge

MIT Master Course “Artificial Intelligence in Health Care”, Massachusetts Institute of Technology Sloan School of Management. 2021.