

Curriculum Vitae

Prof. Dr. Med. Christian Candrian



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1. GENERAL DATA

Name	Christian Candrian
Nationality	Swiss
Date of Birth	02.03.1971
Place of Birth	Sagogn - GR
Private address	Via Crena, 6949 Comano, Switzerland
Phone number hospital	+41 91 811 61 23
e-mail	christian.candrian@eoc.ch
Marital Status	Married with Ursula Candrian-Domeisen, 2 kids
Languages	German: mother language Italian: second mother language English: very good knowledge French: good knowledge Romansh: basic knowledge
Actual function	Head and Scientific Director of Orthopaedics and Traumatology unit, EOC
Hobbies	Sports, hunting, fishing

2. MEDICAL AND ACADEMIC EDUCATION

2024	Full Professor of USI- Università della Svizzera Italiana, Faculty of Biomedical Sciences
2021	Regional Hospital of Lugano, Switzerland Head of the Department of Orthopaedics and Traumatology EOC
2020	Scientific Director of Orthopaedics and Traumatology Service
2019	Professor of USI- Università della Svizzera Italiana, Faculty of Biomedical Sciences
2015	Professor of Traumatology and Orthopaedics, University Basel
2012	Fellowship 3 months Dr. Walch (Shoulder Surgery), Lyon, France
2009	Schwerpunkt: Allgemeine Chirurgie und Traumatologie
2008	Regional Hospital of Lugano, Switzerland Co-chief of the Department of Surgery and Orthopaedics
2007	Promotion to specialist in Orthopaedics and Traumatology
2007	Hospital Bruderholz, Switzerland Consultant Orthopaedics and Traumatology (Prof. Dr. med. N. Friederich)
2005-2006	University Hospital Basel, Switzerland Consultant Orthopaedics and Traumatology (Prof. Dr. med. P. Regazzoni)
2006	University Hospital Basel, Switzerland Cartilage Tissue Engineering, Institute of surgical research and Hospital management (Prof. Dr. med. M. Heberer /Prof. Dr. I. Martin)
2003-2005	Ospedale Regionale di Lugano, Switzerland Consultant Surgery (Prof. Dr. med. S. Martinoli)
2004	Promotion to specialist in Surgery
2003	University Hospital Zürich, Switzerland Dissertation (Prof. Dr. med. O. Trentz) "The value of the conservative treatment of severe renal injuries"
1999-2003	Cantonal Hospital Chur, Switzerland Assistant doctor Surgery (Prof. Dr. med. Th. Rüedi)
1998-1999	Cantonal Hospital Walenstadt, Switzerland Assistant doctor Surgery (Dr. W. Schmidt)
1992 - 1998	University Zürich, Switzerland Medical Education

AO Activities (Arbeitsgemeinschaft für Osteosynthesefragen)

2022	Advanced AO course Director
2018	Advanced AO course Director
2016	Advanced AO course Speaker and Instructor
2015	Advanced AO course Speaker and Instructor
2014	Advanced AO course Speaker and Instructor
2013	Director and Speaker for Scrub Nurse AO course
2012	Speaker at Senior Swiss Resident course, Davos
2011	Director and Speaker for Scrub Nurse AO course
2009	Director and Speaker for Scrub Nurse AO course
2007	Advanced AO course Instructor AO, Davos
2007	AO course Speaker and Instructor, Oberdorf
2004	AO course Manager, Instructor and Coordinator, Oberdorf
2004	Advanced AO course Instructor, Davos

3. SCIENTIFIC ACTIVITIES

General

2020	Scientific Director of Orthopaedics and Traumatology Service, EOC
2017	Clinical Research group of the Orthopaedics and Traumatology Unit (Group leader: Prof. Giuseppe Filardo) GCP First level Investigator GCP Sponsor-Investigator Level
2016	Institution of a laboratory for "Tissue Engineering of the locomotor system of southern Switzerland" (Group leader Prof. M. Moretti)
2006	Full time working in the Cartilage Tissue Engineering-group, Institute of surgical research and hospital management, University Basel, Switzerland (Prof. Dr. I. Martin)

Awards

2016	SIWF-Award for the particular commitment in the teaching of doctors in medical training (Schweizerische Institut für ärztliche Weiter- und Fortbildung)
2014	SIWF-Award for the particular commitment in the teaching of doctors in medical training (Schweizerische Institut für ärztliche Weiter- und Fortbildung)
2008	First prize (5000.-) of the Swiss Society of Surgery (SGC) "Tissue Engineered cartilage with nasal chondrocytes is responsive to physical forces resembling joint loading"
2008	First prize (1000.-) SFAS-Award (Swiss Foot and Ankle Society) "Intra-individual Comparison of Human Ankle and Knee Chondrocytes in vitro: Relevance for Talar Cartilage Repair"

Grants

- 2023 100'000. - CHF Fellowship per la ricerca clinica. J & J, De Puy Syntes, Schweiz
- 200'000. – CHF Contributo finanziario per l'anno corrente per la ricerca clinica. Medacta, Castel S. Pietro
- 50'000. - CHF Contributo finanziario per la ricerca clinica. Lima Corporate, San Daniele del Friuli
- 15'000. - CHF Fellowship per la ricerca clinica. OPED AG Steinhausen
- 20'000. - CHF Stryker registro osteosintesi
- 2022 100'000. - CHF Fellowship for clinical research. J & J, De Puy Syntes, Schweiz
- 200'000. – CHF Financial contribution for the current year for clinical research. Medacta, Castel S. Pietro
- 50'000. - CHF Financial contribution for clinical research. Lima Corporate, San Daniele del Friuli
- 15'000. - CHF Fellowship for clinical research. OPED AG Steinhausen
- 20'000. - CHF Stryker trauma registry
- 15'000. - CHF Greenbone
- 2021 100'000. - CHF Fellowship for clinical research. J & J, De Puy Syntes, Schweiz
- 150'000. - CHF Financial contribution for the current year for clinical research. Medacta, Castel S. Pietro
- 50'000. - CHF Financial contribution for clinical research. Lima Corporate, San Daniele del Friuli
- 15'000. - CHF Fellowship for clinical research. OPED AG Steinhausen
- 30'000.- CHF Stryker trauma registry
- 16'000. - CHF Greenbone
- 2020 100'000. - CHF Fellowship for clinical research. J & J, De Puy Syntes, Schweiz
- 200'000. - CHF Financial contribution for the current year for clinical research. Medacta, Castel S. Pietro
- 25'000. - CHF Financial contribution for clinical research. Lima Corporate, San Daniele del Friuli

- 15'000. - CHF Fellowship for clinical research. OPED AG Steinhausen
- 47'045. - CHF Immediate vs delayed weight-bearing after surgical treatment of malleolar fractures: a randomized controlled trial
- 2019 61'876. - CHF ABREOC 2019 Study of the ligamentization process and integration of the graft in ACL reconstruction surgery with or without detachment of the tibial insertion of the hamstrings
- 47'000. - CHF ABREOC 2019 (MRIC-003/A) Immediate vs. delayed weightbearing after surgical treatment of malleolar fractures: a multi-centered randomized controlled trial
- 372'000. - CHF Fondo FNS sarcoma. Ewing sarcoma metastatic invasion dissected through new 3D vascularized human microfluidic models recapitulating endochondral ossification
- 100'000. - CHF Fellowship for clinical research. J & J, De Puy Syntes, Schweiz
- 200'000. - CHF Financial contribution for the current year for clinical research. Medacta, Castel S. Pietro
- 25'000. - CHF Financial contribution for clinical research. Lima Corporate, San Daniele del Friuli
- 30'000. - CHF Fellowship for clinical research. OPED AG Steinhausen
- 2018 50'388. - CHF Tutore vs. mitella nella terapia riabilitativa dopo sutura in artroscopia della cuffia dei rotatori: studio monocentrico randomizzato
- 200'000. - CHF Financial contribution for the current year for clinical research. Medacta, Castel S. Pietro
- 25'000. - CHF Financial contribution for clinical research. Lima Corporate, San Daniele del Friuli
- 100'000. - CHF Fellowship for clinical research. J & J, De Puy Syntes, Schweiz
- 2017 100'000. - CHF Fellowship for clinical research. J & J, De Puy Syntes, Schweiz
- 450'000. - CHF Financial contribution from the Fidinam foundation, Lugano for three years for transactional research
- 2016 150'000. - CHF Financial contribution to the clinical research of the traumatology and orthopedics unit in anticipation of the Master School Ticino

by Medacta, Castel S. Pietro

48'000. - CHF ABREOC "Study of the immunomodulatory and chondroprotective effect of mesenchymal stem cells with a new model in arthritic joints"

51'200. - CHF. ABREOC "Pilot study of a new prosthesis for transfemoral amputated patients"

2015 320'000. - CHF. Financial contribution from the CCT for the creation of a laboratory of regenerative medicine of the musculoskeletal system

680'000. - CHF. Financial contribution from the EOC for the creation of a laboratory of regenerative medicine of the musculoskeletal system

150'000. - CHF. Financial contribution of the DePuy Synthes company for the ORL trauma registry

2007 118'000. - CHF /year for 3 years. German arthrosis association. Clinical trial (phase I) with engineered osteochondral constructs for the ankle

2006 250000. – CHF. Collaborator (writing and experimental work) in a grant by the Swiss National Science Foundation (Div. 3): "Cellular and molecular characterisation of human nasal chondrocyte plasticity, towards their exploration for articular cartilage repair"(No. 310030_126965)

260000. – CHF. Collaborator (experimental work and yearly reporting) in a grant by the Swiss National Science Foundation (Div. 3): "Engineering of osteochondral composites using human articular chondrocytes and biomimetic materials" (No. 3200B0-110054)

Publications

h index: 29

documents by author: 138

citations: 2264

IF total = 475.202

Peer reviewed publications with impact factor as first or last author

(IF total = 128.231)

1. Pacchiarini L, Massimo Oldrini L, Feltri P, Lucchina S, Filardo G, **Candrian C**. Complications after volar plate synthesis for distal radius fractures. EFORT Open Reviews 2024 Jun 3. (IF: 4.3 , Ranking Q1)
2. Sangiorgio A, Previtali D, Oldrini LM, Milev SR, Filardo G, **Candrian C**. Comparable results of superior vs antero-inferior plating for the treatment of displaced midshaft clavicle fractures. A comparative study. Injury. 2024 Apr. (IF: 2.9 , Ranking Q1)

3. Feltri P, Monteleone AS, Audigé L, Marbach F, Filardo G, **Candrian C**. Patients with rotator cuff tears present a psychological impairment, not only a functional deficit: a systematic review. *Int Orthop*. 2024 Jan. (IF: 3.519, Ranking Q1)
4. Oldrini LM, Sangiorgio A, Feltri P, Marbach F, Filardo G, **Candrian C**. Proximal humerus fractures: deltopectoral open reduction and internal fixation vs deltosplit minimally invasive plate osteosynthesis: which surgical approach provides superior results? *EFORT Open Rev*. 2023 Aug 1. (IF: 5.136, Ranking Q1)
5. Monteleone AS, Feltri P, Müller J, Molina MN, Filardo G, **Candrian C**. Quality of Life from Return to Work and Sport Activities to Sexual Dysfunction after Surgical Treatment of Pelvic Ring Fractures. *Healthcare (Basel)*. 2023 Jul 4. (IF: 3.0, Ranking Q2)
6. Riegger M, Habib N, Testa EA, Müller J, Guidi M, **Candrian C**. The modified Lapidus fusion: a systematic review of biomechanical studies. *EFORT Open Rev*. 2023 Apr 25 (IF: 4.775, Ranking Q1)
7. Feltri P, Monteleone AS, Marbach F, Filardo G, **Candrian C**. Arthroscopic rotator cuff repair: patients with physically demanding work have significantly worse time to return to work, level of employment, and job loss. *Knee Surg Sports Traumatol Arthrosc*. 2022 Sep 27. (IF: 4.342, Ranking Q1).
8. Oldrini LM, Feltri P, Albanese J, Lucchina S, Filardo G, **Candrian C**. Volar locking plate vs cast immobilization for distal radius fractures: a systematic review and meta-analysis. *EFORT Open Rev*. 2022 Sep 19. (IF: 4.618, Ranking Q1).
9. Oldrini LM, Feltri P, Albanese J, Marbach F, Filardo G, **Candrian C**. Reply to Sidiropoulos, K.; Tsikopoulos, K. Comment on "Oldrini et al. PHILOS Synthesis for Proximal Humerus Fractures Has High Complications and Reintervention Rates: A Systematic Review and Meta-Analysis. *Life* 2022, 12, 311". *Life (Basel)*. 2022 Aug. (IF: 3.817, Ranking Q2).
10. Surace MF, Faoro L, Ferraro S, Ippolito G, Zitiello M, **Candrian C**. Minimally Invasive HEROS (Higher External ROTator Sparing) Posterior-lateral Approach for Total Hip Arthroplasty: Surgical Technique and Preliminary Results. *Surg Technol Int*. 2022 Aug 17. (IF: 1.1; Ranking Q3).
11. Pagliuzzi G, Cuzzolin M, Pacchiarini L, Delcogliano M, Filardo G, **Candrian C**. Physeal-sparing ACL reconstruction provides better knee laxity restoration but similar clinical outcomes to partial transphyseal and complete transphyseal approaches in the pediatric population: a systematic review and meta-analysis. *Knee Surg Sports Traumatol Arthrosc*. 2022 Jul 15. (IF: 4.342, Ranking Q1).
12. Monteleone AS, Feltri P, Molina MN, Müller J, Filardo G, **Candrian C**. Quality of life from return to work and sports activities to sexual dysfunction after surgical treatment of acetabular fractures. *Arch Orthop Trauma Surg*. 2022 Feb 26 (IF 3.067, Ranking Q1).
13. Oldrini LM, Feltri P, Albanese J, Marbach F, Filardo G, **Candrian C**. PHILOS Synthesis for Proximal Humerus Fractures Has High Complications and Reintervention Rates: A Systematic Review and Meta-Analysis. *Life (Basel)*. 2022 Feb 19 (IF 3.817, Ranking Q2).
14. Riegger M, Müller J, Giampietro A, Saporito A, Filardo G, Treglia G, Guidi M, **Candrian C**. Forefoot Adduction, Hindfoot Varus or Pes Cavus: Risk Factors for Fifth Metatarsal Fractures and Jones Fractures? A Systematic Review and Meta-Analysis. *J Foot Ankle Surg*. 2021 Nov (IF 2.705, Ranking Q2).
15. Cuzzolin M, Secco D, Guerra E, Altamura SA, Filardo G, **Candrian C**. Operative Versus Nonoperative Management for Distal Biceps Brachii Tendon Lesions: A Systematic Review and Meta-analysis. *Orthop J Sports Med*. 2021 Oct (IF: 2.54, Ranking Q1).
16. Previtali D, Bordoni V, Filardo G, Marchettini P, Guerra E, **Candrian C**. High Rate of Pain Sensitization in Musculoskeletal Shoulder Diseases: A Systematic Review and Meta-analysis. *Clin J Pain*, Mar 2021 (IF: 2.893, Ranking: Q1).
17. Davanzo D, Previtali D, Tamborini S, Filardo G, Fusco A, Bordoni V, Gaffurini P, **Candrian C**. Comparison of the survivorship between arthroplasty and ORIF for basi-cervical femoral neck fractures in the overall population and in polymorbid patients. *Orthop Traumatol Surg Res*, May 2021 (IF: 1.809, Ranking: Q1).
18. Bordoni, V., Marelli, N., Previtali, D., Gaffurini, P., Filardo, G., **Candrian, C.** (2020). Outpatient total hip arthroplasty does not increase complications and readmissions: a meta-analysis. *HIP International*. (IF: 1.35, Ranking: Q2).
19. Bordoni V, Poggi A, Zaffagnini S, Previtali D, Filardo G, **Candrian C**. Outpatient total knee arthroplasty leads to a higher number of complications: a meta-analysis. *J Orthop Surg Res*. 2020 Sep. (IF: 2.28, Ranking Q1).
20. G Ulrich Exner, Luca Mazzucchelli, Francesca Napoli, **Christian Candrian**. Solitary Epiphysial Enchondroma of the Proximal Humerus Causing Growth Deficiency in a 13-Year-Old Boy Lengthened over Intramedullary Nail. *The Open Orthopaedics Journal*, 2020, 14.1. (IF: 0.51, Ranking: Q3).

21. Davide Previtali, Stamen Milev Roumenov, Gherardo Pagliuzzi, Giuseppe Filardo, Stefano Zaffagnini, **Christian Candrian**. Recurrent patellar dislocations without untreated predisposing factors: MPFL reconstruction vs other medial soft tissue surgical techniques—A meta-analysis. *Arthroscopy: The Journal of Arthroscopic & Related Surgery*, 2020. (IF: 4.433, Ranking: Q1).
22. Pagliuzzi G, Davanzo D, Delcogliano M, Grande FD, **Candrian C**. Traumatic bilateral medial patellar instability in a 15-year-old girl. *Journal of Orthopaedic Case Report*. 2019. (IF: 0.675, Ranking: Q2).
23. Previtali D, Di Laura Frattura G, Filardo G, Delcogliano M, Deabate L, **Candrian C**. Peri-operative steroids reduce pain, inflammatory response and hospitalization length following knee arthroplasty without increased risk of acute complications: a meta-analysis. *Knee Surg Sports Traumatol Arthrosc*. 2019 Sep 7. (IF: 3.21, Ranking: Q1).
24. Pagliuzzi G, Napoli F, Previtali D, Filardo G, Zaffagnini S, **Candrian C**. A Meta-analysis of Surgical Versus Nonsurgical Treatment of Primary Patella Dislocation. *Arthroscopy*. 2019 Aug. (IF: 4.29, Ranking: Q1).
25. Di Laura Frattura G, Zaffagnini S, Filardo G, Romandini I, Fusco A, **Candrian C**. Total Knee Arthroplasty in Patients With Knee Osteoarthritis: Effects on Proprioception. A Systematic Review and Best Evidence Synthesis. *J Arthroplasty*. 2019 Jun 14. (IF: 3.52, Ranking: Q1).
26. Zaffagnini S., Previtali D., Tamborini S, Pagliuzzi G., Filardo G., **Candrian C**. Recurrent patellar dislocations: trochleoplasty improves the results of medial patellofemoral ligament surgery only in severe trochlear dysplasia. *Knee Surg Sports Traumatol Arthrosc*. 2019 Mar 22. (IF: 3.227, Ranking: Q1).
27. Guerra E., Previtali D., Tamborini S., Filardo G., Zaffagnini S., **Candrian C**. Midshaft Clavicle Fractures: Surgery Provides Better Results as Compared With Nonoperative Treatment: A Meta-analysis. *Am J Sports Med*. 2019 Mar 5. (IF: 6.057, Ranking: Q1).
28. Simone Ghisla, Francesca Napoli, Gyoza Lehoczy, Marco Delcogliano, Nermine Habib, Michele Arigoni, Giuseppe Filardo, **Christian Candrian**. Posterior pelvic ring fractures: Intraoperative 3D-CT guided navigation for accurate positioning of sacro-iliac screws. *Orthopaedics & Traumatology-Surgery & Research*, August 2018 (IF: 1.413, Ranking: Q2).
29. Filardo G., Andriolo L., Di Laura Frattura G., Napoli F., Zaffagnini S., **Candrian C**. Bone bruise in anterior cruciate ligament rupture entails a more severe joint damage affecting joint degenerative progression. *Knee Surg Sports Traumatol Arthrosc*. 2018 Jun 5. (IF: 3.21, Ranking: Q1).
30. Habib, N., Filardo, G., Delcogliano, M., Arigoni, M., & **Candrian, C**. (2018). An algorithm to avoid missed open-book pelvic fractures. *Eur Rev Med Pharmacol Sci*. (IF: 3.024, Ranking: Q).
31. Filardo G, Zaffagnini S, De Filippis R, Perdisa F, Andriolo L, **Candrian C**. No evidence for combining cartilage treatment and knee osteotomy in osteoarthritic joints: a systematic literature review. *Knee Surg Sports Traumatol Arthrosc*. 2018 Feb 16. (IF: 3.227, Ranking: Q1).
32. **Candrian C**, Grassi A, Filardo G, Vannini F. Comment on "No superior treatment for primary osteochondral defects of the talus. Dahmen J, et al. *KSSTA* 2017 Jun 27. *Knee Surg Sports Traumatol Arthrosc*. 2017 Dec. (IF: 3.227, Ranking: Q1).
33. **Candrian C**, Iker Iriberry I, Freehill M., Raiss R., Boileau P., Walch G. Anatomic shoulder replacement for Primary Osteoarthritis in Patients over 80 Years. Are Results as Good as in Younger Patients? *Acta Orthopaedica* 2015 Jan 14:1-5. (IF: 2.459, Ranking: Q1)
34. Ochs, B. G., Stöckle, U., **Candrian, C**. (2013). Fractures around shoulder and elbow arthroplasty—rare but difficult. *European Orthopaedics and Traumatology*, 4(2), 111-116. (IF: 1.56, Ranking: Q2)
35. **Candrian C**, Miot S, Wolf F, Bonacina E, Valderrabano V, Dickinson S, Wirz D, Jakob M, Martin I, Barbero A. Are ankle chondrocytes from damaged fragments a suitable cell source for cartilage repair? *Osteoarthritis Cartilage*. 2010 Aug;18(8):1067-76. 2010.(IF: 3.904, Ranking: Q1).
36. **Candrian C**, Barbero A, Bonacina, Heberer M, Martin I. A novel implantation technique for engineered osteochondral grafts. *Knee Surg Sports Traumatol Arthrosc*. 2009 Nov. (IF: 1.857, Ranking: Q2).
37. **Candrian C**, Bonacina E, Frueh JA, Vonwil D, Dickinson S, Wirz D, Heberer M, Jakob M, Martin I, Barbero A. Intra-individual comparison of human ankle and knee chondrocytes in vitro: relevance for talar cartilage repair. *Osteoarthritis Cartilage*. 2009 Apr. (IF: 3.953, Ranking: Q1).
38. **Candrian C**, Wolf F, Wendt D, Farhadi J, Heberer M, Martin I, Barbero A. Cartilage tissue engineering using preaggregated human articular chondrocytes. *Eur Cell Mater*. 2008 Dec. (IF: 5.378, Ranking: Q1).
39. **Candrian C**, Vonwil D, Barbero A, Bonacina E, Miot S, Farhadi J, Wirz D, Dickinson S, Hollander A, Jakob M, Li Z, Alini M, Heberer M, Martin I. Engineered cartilage generated by nasal chondrocytes is responsive to physical forces resembling joint loading. *Arthritis Rheum*. 2007 Dec 28. (IF: 6.787, Ranking: Q1).

Peer reviewed publications with impact factor as co-author

(IF total = 346.971)

1. Petta D, D'Arrigo D, Salehi S, Talò G, Bonetti L, Vanoni M, Deabate L, De Nardo L, Dubini G, **Candrian C**, Moretti M, Lopa S, Arrigoni C. A personalized osteoarthritic joint-on-a-chip as a screening platform for biological treatments. *Materials Today Bio* 2024 May. (IF: 8.7, Ranking Q1)
2. Monteleone AS, Salerno M, Mondini Trissino da Lodi C, Gonalba GC, **Candrian C**, Filardo G. The influence of sex is a neglected focus in rotator cuff repair: A systematic review and meta-analysis. *Knee Surgery Sports Traumatology Arthroscopy*. 2024 Apr 28. (IF: 3.8, Ranking Q1)
3. Bersini S, Arrigoni C, Talò G, **Candrian C**, Moretti M. Complex or not too complex? One size does not fit all in next generation microphysiological systems. *iScience*. 2024 Feb 12. (IF: 5.8, Ranking Q1)
4. Schuppisser MV, Mondini Trissino da Lodi C, Albanese J, **Candrian C**, Filardo G. Achilles tendinopathy research has a gender data gap: A systematic review and meta-analysis. *Knee Surg Sports Traumatol Arthrosc*. 2024 Feb 5. (IF: 4.663, Ranking Q1).
5. Baum C, Audigé L, Stojanov T, Müller SA, **Candrian C**; ARCR_Pred Study Group. Functional and Radiologic Outcomes of Degenerative Versus Traumatic Full-Thickness Rotator Cuff Tears Involving the Supraspinatus Tendon. *Am J Sports Med*. 2024 Feb. (IF: 6.202, Ranking Q1)
6. Riegger M, Le H, van Kuijk SMJ, Guyenes G, **Candrian C**, Cianfoni A, Hirsch JA, Koetsier E. Intradiscal Glucocorticoid Injection in Discogenic Back Pain and Influence on Modic Changes: A Systematic Review and Meta-analysis of RCTs. *Pain Physician*. 2023 Sep. (IF: 3.7, Ranking Q1)
7. De Pellegrin L, Feltri P, Filardo G, **Candrian C**, Harder Y, Galetti K, De Monti M. Effects of negative pressure wound therapy with instillation and dwell time (NPWTi-d) versus NPWT or standard of care in orthoplastic surgery: A systematic review and meta-analysis. *Int Wound J*. 2023 Aug. (IF: 3.1, Ranking Q1)
8. Stoffel K, Michelitsch C, Arora R, Babst R, **Candrian C**, Eickhoff A, Gebhard F, Platz A, Schmid FA, Weschenfelder W, Sommer C. Clinical performance of the Femoral Neck System within 1 year in 125 patients with acute femoral neck fractures, a prospective observational case series. *Arch Orthop Trauma Surg*. 2023 Jul. (IF: 3.404, Ranking Q1)
9. Marin R, Feltri P, Ferraro S, Ippolito G, Campopiano G, Previtali D, Filardo G, Marbach F, De Marinis G, **Candrian C**, Surace MF. Impact of tuberosity treatment in reverse shoulder arthroplasty after proximal humeral fractures: A multicentre study. *J Orthop Sci*. 2023 Jul. (IF: 1.8, Ranking Q2)
10. Feltri P, Gonalba GC, Boffa A, **Candrian C**, Menon A, Randelli PS, Filardo G. Platelet-rich plasma does not improve clinical results in patients with rotator cuff disorders but reduces the retear rate. A systematic review and meta-analysis. *Knee Surg Sports Traumatol Arthrosc*. 2023 May. (IF: 4.663, Ranking Q1)
11. Rosso C, Morrey ME, Schär MO, Grezda K; **Swiss Orthopaedics Shoulder and Elbow Expert Group**. The role of platelet-rich plasma in shoulder pathologies: a critical review of the literature. *EFORT Open Rev*. 2023 Apr 25. (IF: 4.775, Ranking Q1)
12. Arrigoni C, Ostano P, Bersini S, Crippa M, Colombo MV, Gilardi M, Zagra L, Mello-Grand M, Gregnanin I, Ghilardi C, Bani MR, **Candrian C**, Chiorino G, Moretti M. Differential angiogenesis of bone and muscle endothelium in aging and inflammatory processes. *Commun Biol*. 2023 Jan 31. (IF: 6.548, Ranking Q1)
13. De Pellegrin L, Feltri P, Filardo G, **Candrian C**, Harder Y, Galetti K, De Monti M. Effects of negative pressure wound therapy with instillation and dwell time (NPWTi-d) versus NPWT or standard of care in orthoplastic surgery: A systematic review and meta-analysis. *Int Wound J*. 2023 Jan 3. (IF: 3.099, Ranking Q2)
14. Feltri P, Gonalba GC, Boffa A, **Candrian C**, Menon A, Randelli PS, Filardo G. Platelet-rich plasma does not improve clinical results in patients with rotator cuff disorders but reduces the retear rate. A systematic review and meta-analysis. *Knee Surg Sports Traumatol Arthrosc*. 2022 Dec 11. (IF: 4.114, Ranking Q1)
15. Stoffel K, Michelitsch C, Arora R, Babst R, **Candrian C**, Eickhoff A, Gebhard F, Platz A, Schmid FA, Weschenfelder W, Sommer C. Clinical performance of the Femoral Neck System within 1 year in 125 patients with acute femoral neck fractures, a prospective observational case series. *Arch Orthop Trauma Surg*. 2022 Dec 2. (IF: 2.928, Ranking Q1)
16. Sangiorgio A, Oldrini LM, **Candrian C**, Errani C, Filardo G. Radiofrequency ablation is as safe and effective as surgical excision for spinal osteoid osteoma: a systematic review and meta-analysis. *Eur Spine J*. 2022 Oct 10. (IF: 3.134, Ranking Q1).

17. Mainardi VL, Rubert M, Sabato C, de Leeuw A, Arrigoni C, Dubini G, **Candrian C**, Müller R, Moretti M. Culture of 3D Bioprinted Bone Constructs Requires an Increased Fluid Dynamic Stimulation. *Acta Biomater.* 2022 Sep 12. (IF: 8.947, Ranking Q1).
18. Petta D, D'Amora U, D'Arrigo D, Tomasini M, **Candrian C**, Ambrosio L, Moretti M. Musculoskeletal tissues-on-a-chip: role of natural polymers in reproducing tissue-specific microenvironments. *Biofabrication.* 2022 Aug 31. (IF: 9.954, Ranking Q1)
19. Previtali D, Mameli A, Zaffagnini S, Marchettini P, **Candrian C**, Filardo G. Tendinopathies and Pain Sensitisation: A Meta-Analysis with Meta-Regression. *Biomedicines.* 2022 Jul 20. (IF: 6.081, Ranking Q1)
20. Feltri P, Solaro L, Di Martino A, **Candrian C**, Errani C, Filardo G. Union, complication, reintervention and failure rates of surgical techniques for large diaphyseal defects: a systematic review and meta-analysis. *Sci Rep.* 2022 Jun 1. (IF: 4.379, Ranking Q1).
21. Marin R, Feltri P, Ferraro S, Ippolito G, Campopiano G, Previtali D, Filardo G, Marbach F, De Marinis G, **Candrian C**, Surace MF. Impact of tuberosity treatment in reverse shoulder arthroplasty after proximal humeral fractures: A multicentre study. *J Orthop Sci.* 2022 Apr 20. (IF: 2.8, Ranking Q2).
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4. TEACHING AND MANAGEMENT EXPERIENCE

- 2021 Organizer/ Coordinator/Speaker of Skeleton course, 3rd Semester USI
- 2020 Skeleton module manager USI 2020
- Professor at Università della Svizzera Italiana (USI)
- Vorsitzender der Kommission für Fortbildung swiss orthopaedic (SO)
- Professor at SUPSI
- Continuous training of chief orthopaedic physicians and assistants
- Management course and conduct seminar for chief physicians (8 days, Zenger and Biaggi)
- Personalized coaching of the ARU company for 3 years
- University course, University of Basel: Conduct of discussion in academic teaching
- University course, University of Basel: Planning-organising-evaluating teaching events
- University course, University of Basel: Learning in the field of perspectives
- University teaching course, University of Basel: rhetorical communication
- University course, University of Basel: Perceiving-evaluating-qualifying in teaching situations
- Instructor and director of AO courses (Arbeitsgemeinschaft für Osteosynthesefragen)
- Accompaniment of doctoral students and PhD students
- Head of courses for medical students
- FMH Orthopedics Examiner since 2013

5. MAIN INTERESTS

- Organisation/management
- Complex traumatology
- Shoulder surgery, elbow and revision surgery
- Research in the field of cartilage

6. MEMBERSHIPS AND ASSOCIATIONS

- Member of the Management Board, Head of the Training Committee, Member of the Shoulder and Traumatology Expert Groups of the Swiss Orthopedic Society (Swissorthopaedics)
- Member of Arbeitsgemeinschaft für Arthroskopie (AGA)
- Member of International Cartilage Repair Society (ICRS)
- Member of the steering committee of the Orthopedic Society of Ticino (SOTI) 2010
- Swiss delegate and member of the Traumatology Task Force EFORT (European Federation of National Associations of Orthopedics and Traumatology) 2009
- Member of the scientific committee of the TMT (Tribuna medica Ticino) since 2013

7. REFERENCES, NATIONAL AND INTERNATIONAL CONTACTS

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