

## **Pietro Pellegrino**

### **Curriculum vitae**

#### **Bio and Education**

- 2017 Degree of Specialization in Orthopaedic & Traumatology 70/70 cum laude, University of Turin
- 2017 Fellowship at Orthopaedic Oncology Unit, Rizzoli Orthopaedic Institute, Bologna, Italy
- 2015 Fellowship at Orthopaedic & Traumatology Surgery Unit, Hospital Universitari San Joan- Reus, Spain
- 2014 Fellowship at Shoulder, Elbow and Sport Medicine Unit, Inselspital, Bern, Switzerland.
- 2012-2017 Resident in training in Orthopaedic & Traumatology, University of Turin.
- 2011 M.D. Degree 110/110 cum laude, University of Turin Medical School

#### **Positions and Employments**

- 2018-now Consultant, Oncologic Orthopaedic Surgery Unit, C.T.O. Hospital, A.O.U. Città della Salute e della Scienza, Turin, Italy
- 2017-2018 Associate Consultant, Orthopaedic & Traumatology Unit C.T.O. Hospital, A.O.U. Città della Salute e della Scienza, Turin, Italy

#### **Awards**

- 2016 Best "E-poster" at 29th ISTA Annual Congress, October 5-8, 2016 Boston, USA – Resurfaced allografts for the reconstruction of the knee after oncologic resection in growing children. M Boffano, U Albertini, S Marone, E Boux, R Ferracini, S Mortera, P Pellegrino, M Manfrini, R Piana
- 2016 SIOT ( Italian Society of Orthopaedic & Traumatology) Scholarship winner with the project: "Creation of a national database for surgical reconstructions in pediatric musculoskeletal tumors"

#### **Membership**

- SIOT ( Italian Society of Orthopaedic & Traumatology) Member
- ISOLS ( International Society of Limb Salvage) member
- ISG ( Italian Sarcoma Group) member
- AO Trauma International member
- EEC (Euro Ewing Consortium)

#### **Editorial Reviewer**

- The Knee
- BMC Cancer

#### **Organization of International Conferences**

- Scientific Director at FORTE (Federation of Orthopaedic and Trauma Trainees in Europe) Summer School 2018 and 2019 editions

## Lecturer and co-Lecturer of Keynote Lectures

- 2022 34<sup>th</sup> EMSOS Annual meeting- London Uk
- 2021. 33<sup>rd</sup> EMSOS Annual meeting- Graz, Austria
- 2019 20th ISOLS General Meeting - Athens, Greece
- 2019 32nd EMSOS Annual meeting - Florence , Italy
- 2017 102° SIOT congress - Palermo, Italy
- 2016 101° SIOT congress - Turin, Italy
- 2016 ISTA - Boston, USA
- 2016 17th EFORT Congress - Geneva, Switzerland
- 2016 9th EMSOS Annual Meeting & 17th EMSOS Nurse and Allied Professions Group Meeting - La Boule, France
- 2015 100° SIOT Congress - Rome, Italy
- 2013 98° SIOT Congress - Genua, Italy

## Main Fields of Interest

Bone sarcomas in pediatric and adult patients  
Soft tissue sarcomas in pediatric and adult patients  
Bone metastases treatment  
Soft tissue and bone benign tumors  
Limb reconstruction  
Conventional arthroplasty, megaprosthesis replacement and custom made prostheses  
Minimally invasive techniques

## Current Issues of Research

- Electrochemotherapy registry for patients with metastatic disease of bone (REINBONE)
- SAFETY Trial (Surveillance after extremity tumor surgery) – Multicentric International Prospective Trial on follow up and Survival in Soft Tissue Sarcomas
- RegiSaRC Ped- Italian Registry for Surgically treated Bone Pediatric Sarcomas
- Sargen – Sargen ITA Sarcoma Genomic Trial (AIEOP-AIRC-ISG)- Italian prospective Trial on Genomic of Sarcomas
- MIMOSA Study - Minimizing Invasiveness Maximizing Outcomes in Sarcomas- Observational prospective registry for QoL and survival in patients with primary Bone and Soft Tissue Sarcomas
- MINOTOR Study – Metastatic Intervention Outcomes Registry Torino – Observational prospective registry for QoL and survival in patients with bone metastasis

## Publications and Book chapters

1. Soft tissue sarcomas of the buttock: A systematic review and meta-analysis.  
Sacco R, Lalevée M, Pellegrino P, Ferro A, Yasmine B, André G, Matthieu G, Hamza A, Piana R, Dujardin F. Surg Oncol. 2022 Dec;45:101883. doi: 10.1016/j.suronc.2022.101883. Epub 2022 Nov 7. PMID: 36371906
2. Complications of patients with bone tumors treated with carbon-fiber plates: an international multicenter study.  
Carbon-Fiber International Collaboration Initiative Research Group. Sci Rep. 2022 Nov 8;12(1):18969. doi: 10.1038/s41598-022-23519-9. PMID: 36348055

3. Delayed Diagnosis of a Primary Bone Lymphoma of the Elbow: A Rare Case and Review of the Literature. Michele Boffano, Nicola Ratto, Martina Rezzoagli, Andrea Conti, Pietro Pellegrino, Raimondo Piana. *Case Reports in Orthopedic Research* 2020(3):100-107. DOI: 10.1159/000509128
4. Gait analysis: Comparative evaluation of conventional total knee replacement and modular distal femoral megaprosthesis. Pietro Pellegrino, Andrea Conti, Andrea Pautasso, Michele Boffano, Nicola Ratto, Marina Carlone, Chiara Beltramo, Giuseppe Massazza, Raimondo Piana. *The Knee* 2020; 27(5):1567-1576 DOI: 10.1016/j.knee.2020.08.004
5. Pathological hip fracture in the elderly: review and proposal of an algorithm. Andrea Conti, Federico Bertolo, Michele Boffano, Pietro Pellegrino, Nicola Ratto, Raimondo Piana. *Lo SCALPELLO* (2020) 34:128-136 doi: 10.36149/0390-5276-160
6. Femoropatellar Osteoarthritis and Trochlear Femoral Bone Defect due to Giant Cell Tumor of the Knee: A Selected Patellofemoral Joint Arthroplasty and Reconstructive Technique A Case Report. Andrea Conti, Michele Boffano, Pietro Pellegrino, Nicola Ratto, Luigi Sabatini, Raimondo Piana. *JBJS Case Connect* 2020;10:e0378 doi <http://dx.doi.org/10.2106/JBJS.CC.19.00378>
7. The intraoperative use of aortic balloon occlusion technique for sacral and pelvic tumor resections: A case-control study Nicola Ratto, Michele Boffano, Pietro Pellegrino, Andrea Conti, Laura Rossi, Valter Verna, Valentina Rastellino, Maurizio Berardino, Raimondo Piana *Surg Oncol.* 2020;32:69-74. doi: 10.1016/j.suronc.2019.11.003. Epub 2019 Nov 20.
8. Electrochemotherapy and Simultaneous Photodynamic Bone Stabilization of Upper Limbs in Metastatic Renal Cancer Disease: Case Report and Literature Review. Ugo Albertini, Andrea Conti, Nicola Ratto, Pietro Pellegrino, Michele Boffano, Raimondo Piana. *Case Reports in Medicine* Volume 2020, Article ID 8408943, <https://doi.org/10.1155/2020/8408943>
9. A Preliminary Study on the Mechanical Reliability and Regeneration Capability of Artificial Bone Grafts in Oncologic Cases, With and Without Osteosynthesis. Michele Boffano, Nicola Ratto, Andrea Conti, Pietro Pellegrino, Laura Rossi, Giuseppe Perale, Raimondo Piana. *J. Clin. Med.*2020,9, 1388; doi:10.3390/jcm9051388
10. Validation process of Toronto Extremity Salvage Score in Italian: A quality of life measure for patients with extremity bone and soft tissue tumors. Laura Rossi, Michele Boffano, Alessandro Comandone, Andrea Ferro, Giovanni Grignani, Alessandra Linari, Pietro Pellegrino, Raimondo Piana, Nicola Ratto, Aileen M. Davis. *J Surg Oncol.* 2020;1–8 DOI: 10.1002/jso.25849
11. An Italian database for surgical reconstructions in pediatric musculoskeletal tumors (Realizzazione di un database italiano delle ricostruzioni chirurgiche per il trattamento di neoplasie del sistema muscoloscheletrico in età pediatrica.) *Giornale Italiano di Ortopedia e Traumatologia* 2019;45:47-57; doi: 10.32050/0390-0134-117. Pietro Pellegrino, Raimondo Piana, Primo Andrea Daolio, Eleonora Marini, Domenico Andrea Campanacci, Giovanni Beltrami, Davide Maria Donati, Marco Manfrini
12. Custom-made 3d-printed pelvic prosthesis: is it a safe option for the limb salvage in tumours and catastrophic total hip arthroplasty failures? M Boffano, P Pellegrino, N Ratto, M Giachino, U Albertini, A Aprato et al. *Orthopaedic Proceedings* 2018 100 (SUPP\_5), 93-93
13. Treating femoral chondrosarcoma with high mechanical performances bio-hybrid bone graft: a case report R. Piana, M. Boffano, P. Pellegrino, N. Ratto, L. Rossi, G. Perale 2018 *Materials Science and Engineering Congress*
14. Chapter 17: New Biomaterials in Instrumentation Systems. 2018. R. Piana, P. Pellegrino, S. Marone. V. Denaro et al., *Management of Bone metastases*, ISBN 978-3-319-73485-9. [https://doi.org/10.1007/978-3-319-73485-9\\_17](https://doi.org/10.1007/978-3-319-73485-9_17)

15. Resurfaced allografts for the reconstruction of the knee after oncologic resection in growing children Boffano M., Albertini U., Marone S., Boux E., Ferracini R., Pellegrino P., Mortera S., Manfrini M., and Piana R. *Orthopaedic Proceedings* 2017 99-B:SUPP\_3, 48-48
16. Chapter 8. 3D Customizing in Oncologic Hip and Pelvic Surgery, *M Boffano, P Pellegrino, N Ratto and R Piana, 3D Applications in Hip Surgery*, Binding: ebook, Pub. Date: 2017, Pages: 6x9 - NBC-C, ISBN: 978-1-53612-308-1
17. Patient specific instrumentation in total knee arthroplasty: a state of the art. Mattei L, Pellegrino P, Calò M, Bistolfi A, Castoldi F. *Ann Transl Med.* 2016 Apr;4(7):126
18. Multidisciplinary treatment of a giant cell tumor of the bone affecting the sacrum of a young woman L D'Ambrosio, P Boccone, P Pellegrino, S Miano, I Bertotto, A Manca, et al. *Cancer Breaking News* 2016 4 (3), 36-41
19. Anterolateral ligament of the knee: back to the future in anterior cruciate ligament reconstruction Bonasia DE, D'Amelio A, Pellegrino P, Rosso F, Rossi R *Orthopedic Reviews* 2015; 7:5773
20. Meniscal root tear repair: why, when and how? Bonasia DE, Pellegrino P, D'Amelio A, Cottino U, Rossi R *Orthopedic Reviews* 2015; 7:5792
21. Validation and cross cultural adaptation of the Italian version of the Harris Hip Score. Dettoni F, Pellegrino P, La Russa MR, Bonasia DE, Blonna D, Bruzzone M, Castoldi F, Rossi R. *Hip Int.* 2015 Jan-Feb;25(1):91-7
22. Ultrastructure and Pathoanatomy of the rotator cuff Matthias A. Zumstein, Nandoun Abysekera, Pietro Pellegrino, Beat K. Moor and Michael O Schaer---- chapter 21, Gi Bain et al, *Normal and pathological anatomy of the shoulder*, Springer, 2015
23. Humeral Shaft Fractures and External Fixator Domenico Aloj, Pietro Pellegrino, Eraclite Petruccelli, Giovanni Martino and Daniele Santoro --- chapter 21, Castoldi F., Blonna D., Assom M, *Simple and Complex Fractures of the Humerus: A Guide to Assessment and Treatment*, Springer 2014
24. Neurologic and vascular injuries in shoulder surgery (Le lesioni vascolo-nervose del cingolo scapolo-omeroale in chirurgia ortopedica) Castoldi F., Mortera S., Pellegrino P., Cicirello M. *Lo scalpello-OTODI Educational* Apr 2014, 28,(1): 21-23
25. Do osteotomies of the proximal femur still have a role? Aprato A, Pellegrino P, Kain MS, Masse A. *Curr Rev Musculoskelet Med.* 2014 Dec;7(4):323-9.
26. Soft tissues surgery in recurrent patellar dislocation (Plastica dei tessuti molli nell'instabilità femoro rotulea) Pellegrino P., Gennari E., Sito G., Fissore L., La Russa M., Castoldi F. *Minerva Ortopedica e Traumatologica* 2012 Ottobre;63(5):325-35
27. Orthotic treatment for adolescent idiopathic scoliosis: evaluation of efficacy based on clinical outcomes (Valutazione dell'efficacia del trattamento ortesico nella scoliosi idiopatica dell'adolescente) Gennari E., Trucchi F., Maiello A., Blonna D., Pellegrino P., Sito G., Gastaldo C., Albenga E., Collo G., Rosso V., Castoldi F. *Minerva Ortopedica e Traumatologica* 2012 Agosto;63(4):257-6
28. Blood management in patients affected by proximal femoral fracture: risk factors evaluation and suggestion of a protocol for rationalization of homologous blood use (Gestione del sangue nei pazienti affetti da frattura di femore: valutazione dei fattori di rischio e proposta di protocollo per la razionalizzazione dell'uso del sangue omologo) Fissore L., Tellini A., Gastaldo C., Pellegrino P., Sito G., Rossi P., Blonna D. *Minerva Ortopedica e Traumatologica* 2012 Agosto;63(4):263-70
29. A reliability study of the ASES score and Oxford score in patients affected by shoulder diseases (Studio sulla concordanza dell'ASES Score e dell'Oxford Score in pazienti affetti da patologie della spalla) Gastaldo C., Fissore L., Gennari E., Pellegrino P., Castoldi F., Blonna D. *Minerva Ortopedica e Traumatologica* 2012 Giugno;63(3):169-7

30. Anterior cruciate ligament reconstruction creating the femoral tunnel through the anteromedial portal. Surgical technique. Pastrone A, Ferro A, Bruzzone M, Bonasia DE, Pellegrino P, D'Elcio D, Cottino U, Rossi R. *Curr Rev Musculoskelet Med*. 2011 Jun;4(2):52-6.