



Curriculum Vitae

Francesco Traina (MD, PhD, Associate Professor)



1. Personal Information

Surname: Traina

Name: Francesco

Birth date & Place: [redacted], Calabria, Italy

Title: MD, PhD, Associate Professor

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Nationality: Italian

Language skills: Italian (mother tongue) / English (fluent)

2. Education, Titles & Professional Careers

Titles & professional careers

- MD degree, University of Ferrara, Italy (1999) Magna cum Laude
- Residency Program, Rizzoli Orthopaedic Institute, University of Bologna, Italy (1999-2004)
- Italian board certified Orthopaedic surgeon, (2004)
- Consultant Surgeon at Rizzoli Orthopaedic Institute (2005-2017)
- Clinical responsible of the Medical Technology Lab, Rizzoli, Bologna, Italy (2004-2012)
- National Academic Qualification as Associate Professor of Orthopaedic and Trauma Surgery, 2014
- PhD in Biomedical Science 2015
- Associate professor in Orthopaedic Surgery University of Messina, Ital, 2017
- Head Chief of the Orthopaedic Clinic of Messina, Italy, 2017

Educational experiences in abroad

- Lund University, (Lund, Sweden), at the Swedish National Knee Registry as a trainee (2001)
- Lund University (Lund, Sweden), constitution of the eMusk first group of EBM in Europe
- TeessideUniversity (Middlesbrough, England), Work on "Promoting Evidence Based in Europe" project as a trainee, (2003)
- Washington University, (Washington, USA), "AAOS project: Consensus on PEMF in Orthopaedics" as a participant of the final AAOS consensusdocument (2005)
- Fellow observer at Hospital for Special Surgery (New York, USA), Head: Prof. Salvati, working on Total Hip Replacement and Hip Arthroscopy (2009)

Professional experience

- More than 5500 operations as the first surgeon in the field of joint replacements, shoulder, arthroscopy, foot and ankle, pediatrics and trauma surgery.
- More than 2000 Primary and revision Total Hip and Knee Arthroplasty as first surgeon.
- Clinical instructor for minimally invasive approaches to the hip (the instructional video is available at AAOS learning center, the mini lateral has been published in 2008).
- Clinical instructor for TKR and revision TKR (the instructional video is available at AAOS learning center)
- Clinical instructor for ACL replacement
- Clinical instructor for hip arthroscopy
- Designer Consultant for continuum cup (Zimmer) for the ceramic design (LTM Lab)
- Designer Consultant for Tipor cup (Adler Ortho)
- Clinical Consultant for CLS Brevius with modular necks (Zimmer)
- Designer Consultant for Acuta stem (Adler Ortho)
- Clinical consultant for a new cup revision system (B-Braun) undisclosed
- Designer of a methaphyseal stem (Adler Ortho) undisclosed
- Clinical consultant for VersiTomic® G-Lok™ (Stryker)

Volunteer Surgery in developing countries

- From 2000 to present, in collaboration with "Orthopaedics Onlus" association, he put in work a department of pediatric Orthopedics at the Children's Hospital in Mlali (Kongwa, Tanzania). He started the surgical activity in August 2000 as a volunteer surgeon in this hospital and performed a total of 30 expeditions (15 as responsible of the orthopedic team).
- Visiting Professor & Surgical Instructor at the hospital of Bafut, Camerun (2010 to present)

- Responsible of the orthopaedics team in Halibet hospital, Asmara ,Eritrea; as the instructor to train local orthopedic surgeons in collaboration with “Annulliamo la Distanza ONLUS” association (from 2011)

3. Publications

Total of 135 published scientific works including: 78 published articles on peer reviewed and PubMed indexed journals, 37 Published works on scientific journals or books in abroad, 8 published papers on Italian Journals of Orthopaedics & Trauma surgery, 9 chapters in text books and 15 scientific videos.

IF and PubMed indexed articles:

1. Faldini C, Fenga D, Sanzarello I, Nanni M, Traina F, Rosa MAA. Prenatal Diagnosis of Clubfoot: A Review of Current Available Methodology. *Folia Med (Plovdiv)*. 2017 Sep 1;59(3):247-253. doi: 10.1515/folmed-2017-0030. Review. PubMed PMID: 28976907.
2. Faldini C, Chehrassan M, Perna F, Borghi R, Mazzotti A, Traina F. Single level anterior cervical discectomy and interbody fusion. *Eur Spine J*. 2017 Sep;26(Suppl 3):423-424. doi: 10.1007/s00586-017-5271-8. PubMed PMID: 28879373.
3. Faldini C, Borghi R, Chehrassan M, Perna F, Pilla F, Traina F. Transforaminal lumbar interbody fusion. *Eur Spine J*. 2017 Sep;26(Suppl 3):429-430. doi: 10.1007/s00586-017-5288-z. PubMed PMID: 28879371.
4. Faldini C, Perna F, Chehrassan M, Borghi R, Stefanini N, Traina F. Surgical tricks for open lumbar discectomy. *Eur Spine J*. 2017 Sep;26(Suppl 3):425-426. doi: 10.1007/s00586-017-5272-7. PubMed PMID: 28879369.
5. Ruffilli A, Traina F, Giannini S, Buda R, Perna F, Faldini C. Surgical treatment of stage II posterior tibialis tendon dysfunction: ten-year clinical and radiographic results. *Eur J Orthop Surg Traumatol*. 2017 Jul 11. doi:10.1007/s00590-017-2011-z. [Epub ahead of print] PubMed PMID: 28698915.

6. Perna F, Pilla F, Nanni M, Berti L, Lullini G, Traina F, Faldini C. Two-stage surgical treatment for septic non-union of the forearm. *World J Orthop.* 2017 Jun 18;8(6):471-477. doi: 10.5312/wjo.v8.i6.471. eCollection 2017 Jun 18. PubMed PMID: 28660139; PubMed Central PMCID: PMC5478490.
7. Faldini C, Pilla F, Fenga D, Perna F, Berti L, Stefanini N, Pungetti C, Mazzotti A, Traina F. Isolate acetabular cup revision through the direct anterior hip approach: surgical technique, early experience and review of the literature. *J Biol Regul Homeost Agents.* 2016 Oct-Dec;30(4 Suppl 1):201-206. PubMed PMID:28002920.
8. Faldini C, Perna F, Pilla F, Stefanini N, Pungetti C, Persiani V, Traina F. Is a minimally invasive anterior approach effective in old patients? A pilot study. *J Biol Regul Homeost Agents.* 2016 Oct-Dec;30(4 Suppl 1):193-199. PubMed PMID:28002919.
9. Faldini C, Perna F, Chehrassan M, Borghi R, Martikos K, Mazzotti A, Stefanini N, Cristofolini L, Traina F. Simultaneous double rod and en-bloc direct vertebral rotation technique for correction of main thoracic adolescent idiopathic scoliosis: retrospective analysis of 14 cases. *J Biol Regul Homeost Agents.* 2016 Oct-Dec;30(4 Suppl 1):181-186. PubMed PMID: 28002917.
10. Traina F, Perna F, Ruffilli A, Mazzotti A, Meliconi R, Berti L, Faldini C. Surgical treatment of insertional Achilles tendinopathy: a systematic review. *J Biol Regul Homeost Agents.* 2016 Oct-Dec;30(4 Suppl 1):131-138. PubMed PMID:28002910.
11. Sabatelli P, Sardone F, Traina F, Merlini L, Santi S, Wagener R, Faldini C. TGF- β 1 differentially modulates the collagen VI α 5 and α 6 chains in human tendon cultures. *J Biol Regul Homeost Agents.* 2016 Oct-Dec;30(4 Suppl 1):107-113. PubMed PMID: 28002907.
12. Ruffilli A, Castagnini F, Traina F, Corneti I, Fenga D, Giannini S, Faldini C. Temperature-Controlled Continuous Cold Flow Device after Total Knee Arthroplasty: A Randomized Controlled Trial Study. *J Knee Surg.* 2016 Nov 30. [Epub ahead of print] PubMed PMID: 27903009.
13. Faldini C, De Fine M, Di Martino A, Fabbri D, Borghi R, Chehrassan M, Traina F. Outcomes of total hip replacement in limbs affected by poliomyelitis. *Hip Int.* 2016 Nov 15:0. doi: 10.5301/hipint.5000451. [Epub ahead of print] PubMed PMID:27886358.
14. Sardone F, Traina F, Bondi A, Merlini L, Santi S, Maraldi NM, Faldini C, Sabatelli P. Tendon Extracellular Matrix Alterations in Ullrich Congenital Muscular Dystrophy. *FRONT AGING NEUROSCI.* 2016 Jun 8;8:131. ISSN:1663-4365.
15. Ruffilli A, De Fine M, Traina F, Pilla F, Fenga D, Faldini C. Saphenous nerve injury during hamstring tendons harvest: Does the incision matter? A systematic review. *KNEE SURG SPORTS TRAUMATOL ARTHROSC.* 2016 Jun 23. [Epub ahead of print] Review. ISSN: 0942-2056.

16. De Fine M, Traina F, Giavaresi G, Leo E, Sanzarelli I, Perna F, Dattola R, Faldini C. Effect of different postoperative flexion regimes on the outcomes of total knee arthroplasty: randomized controlled trial. *KNEE SURG SPORTS TRAUMATOL ARTHROSC.* 2016 Apr 7. [Epub ahead of print] ISSN: 0942-2056.
17. Sardone F, Santi S, Tagliavini F, Traina F, Merlini L, Squarzoni S, Cescon M, Wagener R, Maraldi NM, Bonaldo P, Faldini C, Sabatelli P. Collagen VI-NG2 axis in human tendon fibroblasts under conditions mimicking injury response. *MATRIX BIOL.* 2016 Mar 2. pii: S0945-053X(16)30023-3. ISSN:0945-053X.
18. Faldini C, Nanni M, Traina F, Fabbri D, Borghi R, Giannini S. Surgical treatment of hallux valgus associated with flexible flatfoot during growing age. *Int Orthop.* 2015 Oct 27. [Epub ahead of print] PubMed PMID: 26508497.
19. Faldini C, De Fine M, Di Martino A, Fabbri D, Borghi R, Pungetti C, Traina F. Anterior minimally invasive subcapital osteotomy without hip dislocation for slipped capital femoral epiphysis. *Int Orthop.* 2015 Oct 13. [Epub ahead of print] PubMed PMID: 26459107.
20. Faldini C, Di Martino A, Borghi R, Perna F, Toscano A, Traina F. Long vs. short fusions for adult lumbar degenerative scoliosis: does balance matters? *Eur Spine J.* 2015 Nov;24(Suppl 7):887-892. Epub 2015 Oct 6. PubMed PMID: 26441257.
21. Faldini C, Traina F, Perna F, Borghi R, Martikos K, Gregg T. Does surgery for Scheuermann kyphosis influence sagittal spinopelvic parameters? *Eur Spine J.* 2015 Nov;24(Suppl 7):893-897. Epub 2015 Oct 6. PubMed PMID: 26441254.
22. Faldini C, Traina F, Nanni M, Sanzarelli I, Borghi R, Perna F. Congenital idiopathic talipes equinovarus before and after walking age: observations and strategy of treatment from a series of 88 cases. *J Orthop Traumatol.* 2015 Sep 26. [Epub ahead of print] PubMed PMID: 26409466.
23. Faldini C, Traina F, Nanni M, Mazzotti A, Calamelli C, Fabbri D, Pungetti C, Giannini S. Surgical treatment of cavus foot in Charcot-Marie-tooth disease: a review of twenty-four cases: AAOS exhibit selection. *J Bone Joint Surg Am.* 2015 Mar 18;97(6):e30. doi: 10.2106/JBJS.N.00794. PubMed PMID: 25788311.
24. Faldini C, Traina F, Perna F, Borghi R, Nanni M, Chehrassan M. Surgical treatment of aseptic forearm nonunion with plate and opposite bone graft strut. Autograft or allograft? *Int Orthop.* 2015 Jul;39(7):1343-9. doi: 10.1007/s00264-015-2718-6. Epub 2015 Mar 18. PubMed PMID: 25776465.
25. Traina F, Errani C, Toscano A, Pungetti C, Fabbri D, Mazzotti A, Donati D, Faldini C. Current concepts in the biopsy of musculoskeletal tumors: AAOS exhibit selection. *J Bone Joint Surg Am.* 2015 Jan 21;97(2):e7. doi: 10.2106/JBJS.N.00661. Review. PubMed PMID: 25609446.

26. Errani C, Traina F, Chehrassan M, Donati D, Faldini C. Minimally invasive technique for curettage of chondroblastoma using endoscopic technique. *Eur Rev Med Pharmacol Sci.* 2014 Nov;18(22):3394-8. PubMed PMID: 25491613.
27. Faldini C, Traina F, De Fine M, Pedrini M, Sambri A. Post-operative limb position can influence blood loss and range of motion after total knee arthroplasty: a systematic review. *Knee Surg Sports Traumatol Arthrosc.* 2015 Mar;23(3):852-9. doi: 10.1007/s00167-013-2732-4. Epub 2013 Oct 25. Review. PubMed PMID: 24682489.
28. Sardone F, Traina F, Tagliavini F, Pellegrini C, Merlini L, Squarzoni S, Santi S, Neri S, Faldini C, Maraldi N, Sabatelli P. Effect of mechanical strain on the collagen VI pericellular matrix in anterior cruciate ligament fibroblasts. *J Cell Physiol.* 2014 Jul;229(7):878-86
29. Faldini C, Traina F, De Fine M, Pedrini M, Sambri A. Post-operative limb position can influence blood loss and range of motion after total knee arthroplasty: a systematic review. *Knee Surg Sports Traumatol Arthrosc.* 2013 Oct 25.
30. Errani C, Traina F, Perna F, Calamelli C, Faldini C. Current concepts in the biopsy of musculoskeletal tumors. *SCIENTIFIC WORLD JOURNAL.* 2013 Jun 5;2013:538152. ISSN: 1537-744X.
31. Traina F, De Fine M, Di Martino A, Faldini C. Fracture of ceramic bearing surfaces following total hip replacement: a systematic review. *BIOMED RES INT.* 2013;2013:157247. ISSN: 2314-6141
32. Faldini C, Traina F, Di Martino A, Nanni M, Acri F. Can selective soft tissue release and cuboid osteotomy correct neglected clubfoot? *CLIN ORTHOP RELAT RES.* 2013 Aug;471(8):2658-65. ISSN: 0009-921X
33. Montalti M, Pilla F, Guerra G, Traina F. Periprosthetic femoral fractures:treatments and outcomes. An analysis of 47 cases. *HIP INTERNATIONAL.* 2013 Sep 10;23(4):380-5. ISSN: 1120-7000
34. Beraudi A, Montesi M, Traina F, Falcioni S, Stea S, Toni A. Uncemented primary total hip arthroplasty, presentation of pain, and expression of osteonectin. *ARTIF ORGANS.* 2013 Jun;37(6):561-6. ISSN: 0160-564X
35. Traina F, De Fine M, Bordini B, Toni A. Risk factors for ceramic liner fracture after total hip arthroplasty. *HIP INTERNATIONAL.* 2012 Nov-Dec;22(6):607-14. ISSN: 1120-7000
36. Traina F, De Fine M, Abati CN, Bordini B, Toni A. (2012). Outcomes of total hip replacement in patients with slipped capital femoral epiphysis. *ARCHIVES OF ORTHOPAEDIC AND TRAUMA SURGERY*, vol. 132, p. 1133-1139, ISSN: 0936-8051

37. Stea S, Traina F, Beraudi A, Montesi M, Bordini B, Squarzone S, Sudanese A, Toni A. (2012). Synovial fluid microanalysis allows early diagnosis of ceramic hip prosthesis damage. *JOURNAL OF ORTHOPAEDIC RESEARCH*, vol. 30, p. 1312-1320, ISSN: 0736-0266
38. Montesi M, Beraudi A, Stea S, Ancarani C, Traina F, Toni A. (2012). Monocyte chemoattractant protein 1 expression in synovial fluid of patients with total hip arthroplasty. *ARTIFICIAL ORGANS*, vol. 36, ISSN: 0160-564X
39. Affatato S, Traina F, De Fine M, Carmignato S, Toni A. (2012). Alumina-on-alumina hip implants: A wear study of retrieved components. *JOURNAL OF BONE AND JOINT SURGERY-BRITISH VOLUME*, vol. 94, p. 37-42, ISSN: 0301-620X
40. Traina F, Tassinari E, De Fine M, Bordini B, Toni A. (2011). Revision of ceramic hip replacements for fracture of a ceramic component: AAOS exhibit selection. *JOURNAL OF BONE AND JOINT SURGERY*, vol. 93, ISSN: 0021-9355
41. Affatato S, Traina F, Ruggeri O, Toni A. (2011). Wear of metal-on-metal hip bearings: metallurgical considerations after hip simulator studies. *INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS*, vol. 34, p. 1155-1164, ISSN: 0391-3988
42. Traina F, Bordini B, De Fine M, Toni A. (2011). Patient weight more than body mass index influences total hip arthroplasty long term survival. *HIP INTERNATIONAL*, vol. 21, ISSN: 1120-7000
43. Affatato S, Traina F, Toni A. (2011). Microseparation and stripe wear in alumina-on-alumina hip implants. *INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS*, vol. 34, ISSN: 0391-3988
44. Traina F, De Fine M, Sudanese A, Calderoni PP, Tassinari E, Toni A. (2011). Long-term results of total hip replacement in patients with Legg-Calvé-Perthes disease. *JOURNAL OF BONE AND JOINT SURGERY*, vol. 93, ISSN: 0021-9355
45. Danesi V, Cristofolini L, Stea S, Traina F, Beraudi A, Tersì L, Harman M, Viceconti M. (2011). Re-use of explanted osteosynthesis devices: a reliable and inexpensive reprocessing protocol. *INJURY*, vol. 42, ISSN: 0020-1383
46. Tassani S, Particelli F, Perilli E, Traina F, Baruffaldi F, Viceconti M. (2011). Dependence of trabecular structure on bone quantity: a comparison between osteoarthritic and non-pathological bone. *CLINICAL BIOMECHANICS*, vol. 26, ISSN: 0268-0033

47. Traina F, De Fine M, Tassinari E, Sudanese A, Calderoni PP, Toni A. (2011). Modular neck prostheses in DDH patients: 11-year results. *JOURNAL OF ORTHOPAEDIC SCIENCE*, vol. 16, ISSN: 0949-2658
48. Traina F, Cristofolini L, De Fine M, Brunetti L, Frakulli I, Abati CN, D'Uva L, Toni A. (2010). A reproducible and inexpensive method of measuring hip abductor strength. *HIP INTERNATIONAL*, vol. 20, ISSN: 1120-7000
49. Affatato S, Spinelli M, Zavalloni M, Traina F, Carmignato S, Toni A. (2010). Ceramic-on-metal for total hip replacement: mixing and matching can lead to high wear. *ARTIFICIAL ORGANS*, vol. 34, p. 319-323, ISSN: 0160-564X
50. Traina F, De Clerico M, Biondi F, Pilla F, Tassinari E, Toni A. (2009). Sex differences in hip morphology: is stem modularity effective for total hip replacement?. *JOURNAL OF BONE AND JOINT SURGERY*, vol. 91, p. 121-128, ISSN: 0021-9355
51. Affatato S, Spinelli M, Squarzone S, Traina F, Toni A. (2009). Mixing and matching in ceramic-on-metal hip arthroplasty: an in-vitro hip simulator study. *JOURNAL OF BIOMECHANICS*, vol. 42, ISSN: 0021-9290
52. Affatato S, Traina F, Mazzega-Fabbro C, Sergio V, Viceconti M. (2009). Is ceramic-on-ceramic squeaking phenomenon reproducible in vitro? A long-term simulator study under severe conditions. *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH. PART B, APPLIED BIOMATERIALS.*, vol. 91, p. 264-271, ISSN: 1552-4973
53. Traina F, De Fine M, Biondi F, Tassinari E, Galvani A, Toni A. (2009). The influence of the centre of rotation on implant survival using a modular stem hip prosthesis. *INTERNATIONAL ORTHOPAEDICS*, p. 1513-1518, ISSN: 0341-2695
54. Traina F (2009). Medical malpractice: the experience in Italy.. *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*, vol. 467, p. 434-442, ISSN: 0009-921X
55. Traina F, Tassinari E, Pilla F, De Fine M, Biondi F, Cristofolini L, Toni A. (2009). Outcome of hybrid stem fixation in osteoporotic female patients. A minimum five-year follow-up study.. *INTERNATIONAL ORTHOPAEDICS*, vol. 33, p. 1489-1494, ISSN: 0341-2695
56. Tassinari E, Sudanese A, Traina F, De Fine M, Toni A. (2008). Total hip arthroplasty in a patient affected by post-traumatic acetabular non-union: case report and review of the literature. *HIP INTERNATIONAL*, vol. 18, p. 324-328, ISSN: 1120-7000

57. Stea S, Bordini B, Viceconti M, Traina F, Cervini A, Toni A. (2008). Is laterality associated with a higher rate of hip arthroplasty on the dominant side?. *ARTIFICIAL ORGANS*, vol. 32, p. 73-77, ISSN: 0160-564X
58. Varini E, Cristofolini L, Traina F, Viceconti M, Toni A. (2008). Can the rasp be used to predict intra-operatively the primary stability that can be achieved by press-fitting the stem in cementless hip arthroplasty?. *CLINICAL BIOMECHANICS*, vol. 23, p. 408-414, ISSN: 0268-0033
59. Perilli E, Baruffaldi F, Visentin M, Bordini B, Traina F, Cappello A, Viceconti M. (2007). MicroCT examination of human bone specimens: effects of polymethylmethacrylate embedding on structural parameters. *JOURNAL OF MICROSCOPY*, vol. 225, p. 192-200, ISSN: 0022-2720
60. Pallini F, Cristofolini L, Traina F, Toni A. (2007). Modular hip stems: determination of disassembly force of a neck-stem coupling.. *ARTIFICIAL ORGANS*, vol. 31, p. 166-170, ISSN: 0160-564X
61. Cristofolini L, Erani P, Teutonico AS, Traina F, Viceconti M, Toni A. (2007). Partially cemented AncaDualFit hip stems do not fail in simulated active patients. *CLINICAL BIOMECHANICS*, vol. 22, p. 191-202, ISSN: 0268-0033
62. Stea S, Bordini B, De Clerico M, Traina F, Toni (2007). Safety of pregnancy and delivery after total hip arthroplasty. . *JOURNAL OF WOMEN'S HEALTH*, vol. 16, p. 1300-1304, ISSN: 1540-9996
63. Bal BS, Rahaman MN, Aleto T, Miller FS, Traina F, Toni A (2007). The significance of metal staining on alumina femoral heads in total hip arthroplasty. *THE JOURNAL OF ARTHROPLASTY*, vol. 22, p. 14-19, ISSN: 0883-5403
64. Toni A, Traina F, Stea S, Sudanese A, Visentin M, Bordini B, Squarzoni S. (2006). Early diagnosis of ceramic liner fracture. Guidelines based on a twelve-year clinical experience. *JOURNAL OF BONE AND JOINT SURGERY*, vol. 88, p. 55-63, ISSN: 0021-9355
65. Stea S, Visentin M, Bordini B, Traina F, Squarzoni S, Toni A. (2006). A case report of fracture of ceramic head in total hip arthroplasty: histological and biochemical features of perimplant tissues.. *INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS*, vol. 29, p. 800-808, ISSN: 0391-3988
66. Varini E, Cristofolini L, Viceconti M, Traina F (2006). Stem damage during implantation of modular hip prostheses.. *ARTIFICIAL ORGANS*, vol. 30, p. 564-567, ISSN: 0160-564X
67. Viceconti M, Pancanti A, Varini E, Traina F, Cristofolini L. (2006). On the biomechanical stability of cementless straight conical hip stems.. *PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART H, JOURNAL OF ENGINEERING IN MEDICINE*, vol. 220, p. 473-480, ISSN: 0954-4119

68. Affatato S, Bersaglia G, Junqiang Y, Traina F, Toni A, Viceconti M. (2006). The predictive power of surface profile parameters on the amount of wear measured in vitro on metal-on-polyethylene artificial hip joints. PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART H, JOURNAL OF ENGINEERING IN MEDICINE, vol. 220, p. 457-464, ISSN: 0954-4119
69. Baleani M, Ohman C, Guandalini L, Rotini R, Giavaresi G, Traina F, Viceconti M. (2006). Comparative study of different tendon grasping techniques for arthroscopic repair of the rotator cuff. CLINICAL BIOMECHANICS, vol. 21, p. 799-803, ISSN: 0268-0033
70. Massari L, Caruso G, Chinni C, Ferron P, Gaban A, Traina F (2006). Intraosseous glomus tumor of the ankle: a case report and review of the literature. FOOT & ANKLE INTERNATIONAL, vol. 27, p. 1148-1151, ISSN: 1071-1007
71. Popescu FC, Viceconti M, Traina F, Toni A. (2005). Evaluation of achievable registration accuracy of the femur during minimally invasive total hip replacement. MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol. 43, p. 421-430, ISSN: 0140-0118
72. Traina F, Giardina F, De Clerico M, Toni A. (2005). Structural allograft and primary press-fit cup for severe acetabular deficiency. A minimum 6-year follow-up study. INTERNATIONAL ORTHOPAEDICS, vol. 29, p. 135-139, ISSN: 0341-2695
73. Affatato S, Emiliani D, Bersaglia G, Traina F, Toni A. (2004). An easy technique to digest and isolate UHMWPE wear particles from a hip joint simulator. INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS, vol. 27, p. 424-432, ISSN: 0391-3988
74. Viceconti M, Pancanti A, Dotti M, Traina F, Cristofolini L. (2004). Effect of the initial implant fitting on the predicted secondary stability of a cementless stem. MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol. 42, p. 222-229, ISSN: 0140-0118
75. Viceconti M, Chiarini A, Testi D, Taddei F, Bordini B, Traina F, Toni A. (2004). New aspects and approaches in pre-operative planning of hip reconstruction: a computer simulation. LANGENBECK'S ARCHIVES OF SURGERY, vol. 389, p. 400-404, ISSN: 1435-2443
76. Affatato S, Bersaglia G, Foltran I, Emiliani D, Traina F, Toni A (2004). The influence of implant position on the wear of alumina on alumina studied in a hip simulator. WEAR, vol. 256, p. 400-405, ISSN: 0043-1648
77. Testi D, Cappello A, Sgallari F, Rumpf M, Traina F, Viceconti M (2003). A new approach for improving the prediction of femoral neck fracture . HIP INTERNATIONAL, vol. 13, p. 74-79, ISSN: 1120-7000

78. Baleani M, Traina F, Toni A. (2003). The mechanical behaviour of a pre-formed hip spacer. HIP INTERNATIONAL, vol. 13, p. 159-162, ISSN: 1120-7000
79. Toni A, Stea S, Bordini B, Traina F (2002). Lost to follow-up in a hip prosthesis register. Experience of R.I.P.O.. ACTA ORTHOPAEDICA SCANDINAVICA. SUPPLEMENTUM, vol. 73, p. 49-53, ISSN: 0300-8827
80. Toni A, Paderni S, Sudanese A, Guerra E, Traina F, Giardina F, Antonietti. (2001). Anatomic cementless total hip arthroplasty bearings and modular necks : 3 to 5 years follow-up. HIP INTERNATIONAL, vol. 11, p. 1-17, ISSN: 1120-7000

PubMed indexed articles:

1. Giannini S, Pungetti C, Mazzotti A, Traina F, Faldini C. Congenital forward shoulder with clavicle hypoplasia: surgical lengthening by intercalary graft positioning and plate fixation. Musculoskelet Surg. 2016 Dec;100(3):207-211. PubMed PMID: 27878768.
2. Faldini C, Prosperi L, Traina F, Nanni M, Tesfaghiorghi S, Tsegay S, Yosief M, Pungetti C, Sanzarello I (2016). Surgical treatment of neglected congenital idiopathic talipes equinovarus after walking age in Eritrea: an Italo-Eritrean cooperation. MUSCULOSKELET SURG. Vol 100. p. 133-137, ISSN:2035-5106.
3. Ruffilli A, Traina F, Pilla F, Fenga D, Faldini C. Marchetti Vicenzi elastic retrograde nail in the treatment of humeral shaft fractures: review of the current literature. MUSCULOSKELET SURG. 2015 Dec;99(3):201-9. ISSN:2035-5106.
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Chapters in books

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2. Bal BS, Rahaman MN, Aleto T, Miller FS, Traina F, Toni A (2005). Surfaces Changes to Alumina Femoral Heads after Metal Staining during Implantation, and after Recurrent Dislocations of the Prosthetic Hip. In: D'Antonio JA, Dietrich M. Bioceramics and Alternative Bearings in Joint Arthroplasty. BERLIN HEIDELBERG:Springer-Verlag
3. Toni A, Traina F (2005). European Experience with Ceramic Systems. In: D'Antonio JA, Dietrich M . Bioceramics and Alternative Bearings in Joint Arthroplasty. p. 109-112, BERLIN HEIDELBERG:Springer-Verlag
4. Toni A, Traina F, Cervinini A, De Fine M, Bordini B (2006). Off-set and ceramic on ceramic bearing. In: Benazzo F, Falez F, Dietrich M. Bioceramics and Alternative Bearings in Joint Arthroplasty. p. 233-236, BERLIN HEIDELBERG:Springer-Verlag

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7. Affatato S, Traina F (2011). Bio and medical tribology. In: Davim JP. Tribology for Engineers A practical guide. p. 243-286, CAMBRIDGE:Woodhead Publishing Limited, Ed Steve Rimmer
8. Traina F, De Fine M and Affatato S (2012). Anatomy of the knee and suitable prostheses. In: (a cura di): Affatato S, Wear of orthopaedic implants and artificial joints . CAMBRIDGE:Woodhead Publishing Limited, Ed Steve Rimmer
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10. Faldini c, Traina f (2013). Position and orientation of the cup . In: Roberto Rossi, Filippo Castoldi. Primary Total Hip Replacement Volume 3 di Advanced orthopaedic surgery. Torino:Edizioni Minerva Medica, ISBN: 8877117818

Books

Berjano P, Bianco E, Bianconi M, Bozzolan M, Iovine R, Jefferson T, Lo Monaco A, Padua R, Romanici E, Testa M, Torre M, Traina F, Tucci G, Zagra L, Zanoli G. (2004). Revisione sistematica sulle protesi d'anca: affidabilità dell'impianto. Istituto Superiore di Sanità programma Nazionale Linee Guida.

4. Presentations & Lectures

More than 500 presentations in national and international congresses mostly on THR and TKR, including 12 lectures as invited guest, 32 Scientific Exhibitor Videos at the American Academy of Orthopaedic Surgeons annual meeting

Complete list of AAOS papers presented at the AAOS:

1. Poster: "Cemented versus hydroxyapatite coated cementless stem-to-bone fixation: an identical stem design long term survival comparison". Toni A, Traina F, Stea S, Bordini B, Giunti A. American Academy of Orthopaedic Surgeons, New Orleans, 2003
2. Scientific Exhibit: Modular Neck Primary Prosthesis: Experimental and Clinical Outcomes. Traina F, Baleani M, Viceconti M, Toni A. American Academy of Orthopaedic Surgeons, San Francisco, 2004
3. Scientific Exhibit: The High Hip Center of Rotation in THR: What Is Changed With Hard Bearing Surfaces and Modular Stem Prostheses. Traina F, Giardina f, Biondi F, Toni A American Academy of Orthopaedic Surgeons, Chicago, 2006
4. Scientific Exhibit: Early Diagnosis of Ceramic Liner Fracture: Guidelines Based on a 12-Year Clinical Experience With 3710 Modern Ceramic Prostheses. Toni A, Traina F, Stea S, Sudanese A, Visentin M, Bordini B, Squarzone S American Academy of Orthopaedic Surgeons, Chicago, 2006
5. Scientific Exhibit: Gender Differences in Hip Morphology: Is Stem Modularity Effective for Total Hip Replacement? Traina F, De Clerico M, Biondi F, Pilla F, Tassinari E, Toni A. American Academy of Orthopaedic Surgeons, Las Vegas, 2009
6. Scientific Exhibit: Relationship between obesity and survivorship of total hip and knee prostheses. Traina F, Bordini B, Cremonini S, Giardina F, Stea S, Toni A. American Academy of Orthopaedic Surgeons, New Orleans, 2010
7. Scientific Exhibit: Revision of a Ceramic Hip for Fractured Ceramic Components. Traina F, Tassinari E, De Fine M, Bordini B, Toni A American Academy of Orthopaedic Surgeons, San Diego, 2011
8. Poster: "Surgical Treatment of Neglected Idiopathic Clubfoot after Walking Age in Developing Countries". C. Faldini, F. Traina, S. Pagkrati, M. Nanni, D. Leonetti, F. Acri, M.T. Miscione, D. Francesconi, S. Giannini Annual Meeting, American Academy of Orthopaedic Surgeons, San Diego, California 2011
9. Video: "Medial Plantar release in nonreducible congenital equinovarus foot." C. Faldini, F. Acri, S. Pagkrati, M.T. Miscione, F. Traina, S. Giannini 78th Annual Meeting, American Academy of Orthopaedic Surgeons. San Diego, California 15 min. 2011
10. Scientific Exhibit : Failure of Modular Necks in Primary Total Hip Replacement: Can We Prevent It? Traina F, Baleani M, Erani P, Bordini B, De Fine M, Stea S, Toni A. American Academy of Orthopaedic Surgeons, San Francisco, 2012

11. Video: "Cuboid osteotomy associated with medial plantar release in severe untreated clubfoot." C. Faldini, F. Traina, F. Acri, M T Miscione, M Nanni, D Leonetti, M Chehrassan, S Pagkrati, S Giannini 79th Annual Meeting, American Academy of Orthopaedic Surgeons.
12. Poster: "Does the addition of cement reduce the risk of local recurrence after curettage of giant cell tumore of bone?" C.Errrani, F.Traina, A.Toscano, M.Nanni, A.Bondi, M.De Fine, D.Donati, C.Faldini, S.Giannini. 2013 Annual Meeting, american Academy of Orthopaedic Surgeons, 19-23 Marzo, Chicago, Illinois
13. Video: "Open Reduction In Missed Irreducible Congenital Dislocation Of The Hip"C. Faldini,M Chehrassan, F. Traina, F. Acri, F. Acri, C. pungetti, D. Fabbri, M. de Fine, A. Di Martino, A. Bondi80th Annual Meeting, American Academy of Orthopaedic Surgeons. Chicago, Illinois 19 min. 2013
14. Video: "Minimally invasiv technique for currettage of benign bone tumors using endoscopic technique" c. Errani, M Chehrassan,A. toscano, M. Nanni, A. Bondi, M. de Fine, S. Calderone, F. Traina, F. j. Kreshak,C. Faldini 80th Annual Meeting, American Academy of Orthopaedic Surgeons. Chicago, Illinois 19 min. 2013
15. Scientific Exhibit: "Surgical treatment of cavus foot in Charcot-Marie-Tooth Disease. A review of twenty-four cases". C.Faldini, F.Traina, M.Nanni, A.Mazzotti, C.Calamelli, D.Fabbri, C.Pungetti, S.Giannini. 2014 Annual Meeting, american Academy of Orthopaedic Surgeons, 11-15 Marzo, New Orleans, Louisiana
16. Scientific Exhibit: "Current Concepets in the Biopsy of Musculoskeletal Tumors". F.Traina, C.Errani, A.Toscano, C.Pungetti, D.Fabbri, A.Mazzotti, D.Donati, C.Faldini, 2014 Annual Meeting, american Academy of Orthopaedic Surgeons, 11-15 Marzo, New Orleans, Louisiana
17. Video: "Approaches to the Hip: Minimally Invasive Posterolateral Total Hip Arthroplasty" C.Faldini, F.Traina, M. Cherassan, R. Borghi, D. Fabbri, M.Nanni, F. Pilla, M. Pedrini, S.Giannini. 81th Annual Meeting, American Academy of Orthopaedic Surgeons. New Orleans, Lousiana, 24 min. 2014 (Award winner)
18. Video: "Approaches to the Hip: Minimally Invasive Direct Lateral Total Hip Arthroplasty" C.Faldini, F.Traina, R. Borghi, M. Cherassan, D. Fabbri, M.Nanni, F. Pilla, A Sambri, S.Giannini. 81th Annual Meeting, American Academy of Orthopaedic Surgeons. New Orleans, Lousiana, 19 min. 2014
19. Video: "Approaches to the Hip: Minimally Invasive Direct Anterior Total Hip Arthroplasty" C.Faldini, F.Traina, D. Fabbri, M. Cherassan, R. Borghi, M.Nanni, F. Pilla, M. Cadossi, S.Giannini. 81th Annual Meeting, American Academy of Orthopaedic Surgeons. New Orleans, Lousiana, 13 min. 2014

20. Video: "Cuneiform Osteotomy Through Anterior Approach Without Hip Dislocation in Slipped Capital Femoral Epiphysis" presentata al 81th Annual Meeting, American Academy of Orthopaedic Surgeons. New Orleans, Louisiana, 16 min. 2014
21. Scientific Exhibit: "Algorithm for treatment of Idiopathic Congenital Talipes Equinovarus from Birth to Walking Age". M.Nanni, F.Traina, M.Chehrassan, C.Calamelli, A.Mazzotti, F.Perna, I.Sanzarello, S.Giannini, C.Faldini. 2015 Annual Meeting, American Academy of Orthopaedic Surgeons, 24-28 Marzo, Las Vegas, Nevada
22. Scientific Exhibit: "Surgical Treatment of Hallux Valgus Associated with Flat Foot During Growing Age". S.Giannini, F.Traina, M.Nanni, F.Pilla, R.Borghi, D.Fabbri, I.Sanzarello, M.Chehrassan, C.Faldini. 2015 Annual Meeting, American Academy of Orthopaedic Surgeons, 24-28 Marzo, Las Vegas, Nevada
23. Scientific Exhibit: "Changes in Spino-pelvic Alignment after Surgical Treatment of High Grade Isthmic Spondylolisthesis". C.Faldini, F.Traina, A.Di Martino, A.Toscano, R.Borghi, D.Fabbri, F.Perna, M.Chehrassan, V.Denaro. 2015 Annual Meeting, American Academy of Orthopaedic Surgeons, 24-28 Marzo, Las Vegas, Nevada
24. Scientific Exhibit: "How to recognize a Bone Tumor Based on Imaging: Guidelines Inferred from a Review of the Literature". F.Traina, C.Errani, I. Sanzarello, C.Pungetti, M.Chehrassan, D.Fabbri, R.Borghi, F.Perna, C.Faldini. 2015 Annual Meeting, American Academy of Orthopaedic Surgeons, 24-28 Marzo, Las Vegas, Nevada
25. Video: "Posterior Stabilized Total Knee Arthroplasty: Surgical Technique" C.Faldini, F.Traina, R. Borghi, M. Cherassan, D. Fabbri, F. Pilla, N. Stefanini, A. Bondi, S. Calderone. 82th Annual Meeting, American Academy of Orthopaedic Surgeons. Las Vegas, Nevada, 2015
26. Video: "Surgical Treatment of Cavus Foot in Charcot-Marie-Tooth Disease" C. Faldini, M. Nanni, D. Fabbri, M. Chehrassan, R. Borghi, F. Pilla, I. Sanzarello, F. Traina, S. Giannini, 82th Annual Meeting, American Academy of Orthopaedic Surgeons. Las Vegas, Nevada, 2015
27. Video: "Proximal Tibiofibular Joint Ganglion Cyst: Surgical Treatment" F. Traina, M. Chehrassan, F. Pilla, R. Borghi, D. Fabbri, F. Perna, C. Errani, M. De Fine, C. Faldini, 82th Annual Meeting, American Academy of Orthopaedic Surgeons. Las Vegas, Nevada, 2015
28. Scientific Exhibit: Algorithm of Decision Making and Surgical Approach in Treatment of Relapsed Congenital Clubfoot after Walking Age. Faldini C, Traina F, Nanni M, Sanzarello I, Fabbri D, Borghi R, Perna F, Fenga D, Giannini S. American Academy of Orthopaedic Surgeons, Orlando, 2016

29. Video: "Congenital Muscular Torticollis: Minimally Invasive Bipolar Tenotomy"
C. Faldini, F. Pilla, F. Perna, D. Fenga, D. Fabbri, R. Borghi, M. Nanni, F. Traina, MD
83th Annual Meeting, American Academy of Orthopaedic Surgeons. Orlando, Florida, 2016

30. Video: "How to Reduce Unbalanced Severe Isthmic Spondylolisthesis" C. Faldini, A. Toscano, R. Borghi, D. Fabbri, F. Perna, A. Di Martino, C. Pungetti, M. Chehrassan, F. Traina.83th Annual Meeting, American Academy of Orthopaedic Surgeons. Orlando, Florida, 2016

31. Video: "Minimally Invasive Direct Anterior Approach for Revision of the Acetabular Component."
C. Faldini, F. Traina, D. Fabbri, D. Fenga, R. Borghi, F. Perna, E. Leo, C. Calamelli, M. Chehrassan.83th Annual Meeting, American Academy of Orthopaedic Surgeons. Orlando, Florida, 2016

32. Video: "Surgical Treatment of Flexible Flatfoot in Children: Subtalar Arthroereisis and Combined Surgical Procedures" C. Faldini, F. Traina, M. Nanni, D. Fabbri, R. Borghi, F. Perna, I. Sanzarello, F. Pilla, S. Giannini.83th Annual Meeting, American Academy of Orthopaedic Surgeons. Orlando, Florida, 2016

33. Scientific Exhibit: "How to Prevent Dislocation after Revision Hip Arthroplasty ". F.Traina, M. Cadossi, R. Buda, F. Perna, A. Mazzotti, N. Stefanini, C. Pungetti, M.Chehrassan, C.Faldini. 84thAnnual Meeting, American Academy of Orthopaedic Surgeons, 14-18 Marzo, San Diego, California,2017

34. Scientific Exhibit: "Embolization of Bone tumors: Guidelines Inferred from a Review of Litterature". F.Traina, G. Facchini, G. Rossi, M. Cadossi, G. Pagliazzi, P. Capra, C. Pungetti, F. Castagnini, C.Faldini. 84thAnnual Meeting, American Academy of Orthopaedic Surgeons, 14-18 Marzo, San Diego, California, 2017

35. Video: "Surgical Correction of Drop Foot by Posterior Tibialis Transfer"
Cesare Faldini MD, Federico Pilla MD, Niccolò Stefanini MD, Fabrizio Perna MD, Raffaele Borghi MD, Daniele Fabbri MD, Mohammadreza Chehrassan MD, Antonio Mazzotti MD, Matteo Nanni MD, Francesco Traina MD..84thAnnual Meeting, American Academy of Orthopaedic Surgeons, 14-18 Marzo, San Diego, California, 2017

36. Video: "Surgical Treatment of Anterior Shoulder Instability by Latarjet-Patte Procedure"
Francesco Traina MD, Salvatore Calderone MD, Fabrizio Perna, Daniele Fabbri MD, Raffaele Borghi MD, Federico Pilla MD, Niccolò Stefanini MD, Mohammadreza Chehrassan MD, Cesare Faldini MD. 84thAnnual Meeting, American Academy of Orthopaedic Surgeons, 14-18 Marzo, San Diego, California, 2017

37. Video: "Simultaneous Dual Rod Correction and Direct Vertebral Rotation Technique to Correct Double Major Adolescent Idiopathic Scoliosis Curve"
Cesare Faldini MD, Mohammadreza Chehrassan MD, Raffaele Borghi MD, Daniele Fabbri MD, Fabrizio Perna MD, Federico Pilla MD, Niccolò Stefanini MD, Camilla Pungetti MD, Angelo Toscano MD, Francesco Traina MD. 84th Annual Meeting, American Academy of Orthopaedic Surgeons, 14-18 Marzo, San Diego, California, 2017

Invited lectures at the Italian National Orthopaedic Congress (SIOT relazioni pubblicate)

1. Stea S, Bordini B, De Clerico M, Traina F (2007). Il registro dell'implantologia protesica ortopedica dell'Emilia Romagna: outcome di 55.000 protesi d'anca.
2. Traina f, Giardina F, De Fine M, Tassinari E, Biondi F, Galvani A, Bordini B, Toni A (2007). Protesi d'anca con accoppiamento articolare in ceramica.
3. Toni A, Traina F, Sudanese A, Biondi F, De Fine M, DiMotta D, Pilla F (2007). Modularità e offset.
4. Calderoni PP, Traina F, Masetti C, Galvani A, Tassinari E, Di Motta D, Pilla F, Toni A (2007). Protesi d'anca in esiti Perthes ed epifisiolisi.
5. Toni A, Traina F, Tassinari E, Biondi F, Pilla F (2008). Protesi e modularità.
6. Toni A, Traina F (2009). Microseparazione ed impingement protesico: quando la ceramica fallisce.
7. Toni A, Traina F, Frakulli I, Abati CN, d'Uva L, Sudanese A, Calderoni PP, De Fine M (2010). Vantaggi della modularità del collo negli steli femorali.
8. Toni A, Traina F, Sudanese A, De Fine M, Tassinari E, Montalti M, Pilla F (2011). Protesi d'anca con accoppiamento ceramica-ceramica: come utilizzarle al meglio.
9. Traina F, Faldini C (2016). Accoppiamenti articolari.

Awards

1. Student Biomaterial Award: Traina F, Bordini B, De Clerico M, Toni A. Twelve years follow up experience with an hydroxyapatite coated hip arthroplasty with ceramic bearing surfaces. ISTA, Roma, 2004
2. American Academy of Orthopaedic Surgeons 2011 Award of Excellence: Traina F, Tassinari E, De Fine M, Bordini B, Toni A. Revision of a Ceramic Hip for Fractured Ceramic Components.
3. American Academy of Orthopaedic Surgeons 2015 Award of Excellence: Faldini C, Traina F, Di Martino A, Toscano A, Fabbri D, Borghi R, Perna F, Chehrassan R, Denaro V, Giannini S. Changes in Spino-pelvic Alignment after Surgical Treatment of High Grade Isthmic Spondylolisthesis. American Academy of Orthopaedic Surgeons, Las Vegas, 2015

Best video award at the American Academy of Orthopaedic Surgeons:

1. Medial Plantar Release in Non-Reducible congenital Equinovarus Foot, presentata al 78th Annual Meeting, American Academy of Orthopaedic Surgeons. San Diego, California 2011 (Award winner)
2. Cuboid Osteotomy Associated with Plantar Medial Release in Severe Untreated Clubfoot, presentata al 79th Annual Meeting, American Academy of Orthopaedic Surgeons. San Francisco, California 2012 (Award winner)
3. Open Reduction In Missed Irreducible Congenital Dislocation Of The Hip, presentata al 80th Annual Meeting, American Academy of Orthopaedic Surgeons. Chicago, Illinois 2013 (Award winner)
4. Approaches to the Hip: Minimally Invasive Postero Lateral Total Hip Arthroplasty, presentata al 81st Annual Meeting, American Academy of Orthopaedic Surgeons. New Orleans, Louisiana 2014 (Award winner)
5. Proximal Tibiofibular Joint Ganglion Cyst: Surgical Treatment, presentata al 82nd Annual Meeting, American Academy of Orthopaedic Surgeons. Las Vegas, Nevada 2015 (Award winner)
6. Surgical Treatment of Cavus Foot in Charcot-Marie-Tooth Disease, presentata al 82nd Annual Meeting, American Academy of Orthopaedic Surgeons. Las Vegas, Nevada 2015 (Award winner)
7. Congenital Muscular Torticollis: Minimally Invasive Bipolar Tenotomy, presentata al 83rd Annual Meeting, American Academy of Orthopaedic Surgeons. Orlando, Florida 2016 (Award winner)

8. How to Reduce Unbalanced Severe Isthmic Spondylolisthesis, presentata al 83rd Annual Meeting, American Academy of Orthopaedic Surgeons. Orlando, Florida 2016 (Award winner)

9. Minimally Invasive Direct Anterior Approach for Revision of the Acetabular Component, presentata al 83rd Annual Meeting, American Academy of Orthopaedic Surgeons. Orlando, Florida 2016 (Award winner)

10. Surgical Treatment of Flexible Flatfoot in Children: Subtalar Arthroereisis and Combined Surgical Procedures, presentata al 83rd Annual Meeting, American Academy of Orthopaedic Surgeons. Orlando, Florida 2016 (Award winner)

11. Surgical Correction of Drop Foot by Posterior Tibialis Transfer presentata al 84th Annual Meeting, American Academy of Orthopaedic Surgeons, 14-18 Marzo, San Diego, California, 2017 (Award winner)

12. Simultaneous Dual Rod Correction and Direct Vertebral Rotation Technique to Correct Double Major Adolescent Idiopathic Scoliosis Curve presentata al 84th Annual Meeting, American Academy of Orthopaedic Surgeons, 14-18 Marzo, San Diego, California, 2017

Francis Bone