



GIOVANNI BARBANTI-BRODANO, MD

CURRICULUM VITAE

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Date of Birth: December 4th, 1968
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EDUCATION / TRAINING

Institution and location	Degree	Year (date)	Field of study
Liceo Classico "San Luigi" (Bologna, Italy)		1984- 1989	Humanities
University of Bologna (Bologna, Italy)	MD	1989 – 1994	Degree of Medicine and Surgery
Wistar Institute (Philadelphia, USA)		1991	Research program "HTLV-I-like virus in leukemia" (Prof. Hilary Koprowski)
University of Bologna (Bologna, Italy)	MD	1994 – 1999	Residency in Orthopedics and Traumatology
Rizzoli Orthopedics Institute (Bologna, Italy)	MD	1996	Internship in Spine Surgery, Pediatric Orthopedics
Rizzoli Orthopedics Institute (Bologna, Italy)	MD	1994-1999	Internship in Laboratory of Biomaterials Research and Laboratory in Oncology Research
Rizzoli Orthopedics Institute (Bologna, Italy)	MD	1997	Internship in Orthopedics Oncology
Rizzoli Orthopedics Institute (Bologna, Italy)	MD	1997- 1998	Internship in General Orthopedics and Traumatology
Centre Hospitalier Universitaire (Nice, France)	MD	1998	Fellow at Prof. Claude Argenson's Unit
Rizzoli Orthopedics Institute (Bologna, Italy)	MD	1999	Internship in Spine Surgery
University Spine Center (Tennessee, USA)	MD	2004	Fellow at Prof. Kevin Foley's Unit
Dartmouth Spine Center (Dartmouth, USA)	MD	2004	Fellow at Dr. James Weinstein's Unit
Spine Center of Hospital Universitario (Valencia, Spain)	MD	2005	Fellow at Dr. Antonio Martin Belloch's Unit

MEDICAL BOARDS REGISTRATION

Institution	Country	Year (date)	Ref. Number
Italian Medical Board and Specialist Register	Italy	1995– present	"Albo dei Medici-Chirurghi di Bologna", no. 13181

POSITIONS AND EMPLOYMENT

Year	Position	Institution and location
1999 - 2000	MD	Department of Orthopedics and Traumatology, San Maurizio Hospital, Bolzano, Italy
2000 - 2007	MD	Department of Orthopedics and Traumatology, Spine Center, Maggiore Hospital, AUSL, Bologna, Italy
2007 - present	MD	Department of Oncological and Degenerative Spine Surgery, Rizzoli Orthopedics Institute, Bologna, Italy [Link]

CLINICAL ACTIVITY: From 2007 to 2019 he performed more than 1000 surgical procedures at Rizzoli Orthopedics Institute, for oncological and degenerative spine diseases.

SCIENTIFIC SOCIETIES MEMBERSHIP

Year	Position	Society
1999 – present	Active Member	Società Italiana di Ortopedia e Traumatologia (S.I.O.T.) Italian Society of Orthopaedics and Traumatology
1999 – present	Active Member	Società Italiana di Chirurgia Vertebrale (G.I.S.) Italian Society of Spine Surgery
2003 – present	Active Member	AOSpine, European Section – Chairman AOSIT 2013-2015
2008 – present	Founder	BIOSPINA, italian scientific association promoting the research for spine disease
2016- 2019		AOSpine European Board Research Officer

RESEARCH AND CLINICAL STUDIES

Year	Position	Study, institution and location
2007- 2011	Principal Investigator	Cellular and molecular analysis for the identification and characterization of osteogenic progenitors isolated from adult tissues. Rizzoli Orthopedics Institute, Bologna, Italy
2009 – 2014	Principal Investigator	Prospective randomized study for the treatment of osteoporotic vertebral fractures, comparison between two techniques: vertebroplasty and kyphoplasty. Rizzoli Orthopedics Institute, Bologna, Italy
2010 – 2013	Principal Investigator	Evaluation of pain and functional recovery after surgical treatment for low back pain caused by degenerative kyphoscoliosis. Rizzoli Orthopedics Institute, Bologna, Italy
2010 – 2013	Assistant Investigator	Pilot study- Spondylolisthesis: posterolateral interbody fusion (PLIF) vs transforaminal interbody fusion (TLIF), comparison between two techniques. Rizzoli Orthopedics Institute, Bologna, Italy
2010- 2013	Assistant Investigator	Pilot study- Lumbar disc herniation: percutaneous radiofrequency vs surgical treatment, comparison between two techniques. Rizzoli Orthopedics Institute, Bologna, Italy
2010- 2013	Assistant Investigator	Evaluation of survival related to the application of WBB or Enneking staging systems in the treatment of primary spine tumour: a pilot study. Rizzoli Orthopedics Institute, Bologna, Italy

2011- 2013:	Assistant Investigator	Evaluation of quality of life of patients affected by vertebral osteomyelitis following a multidisciplinary diagnostic and therapeutic treatment at 1, 3, 6, 12 months of follow up. Rizzoli Orthopedics Institute, Bologna, Italy
2011- 2015	Assistant Investigator	Evaluation of survival and pain reduction in the surgical treatment of vertebral localizations of hematopoietic tumours. Rizzoli Orthopedics Institute, Bologna, Italy
2011- 2013	Assistant Investigator	Evaluation of surgical complications, survival and pain reduction of in the treatment of vertebral metastases at 1-3-6-12 months follow up and the every year. Rizzoli Orthopedics Institute, Bologna, Italy
2011- 2013	Assistant Investigator	Predictor factors of mortality and morbidity in the surgical treatment of primary spine tumors. Rizzoli Orthopedics Institute, Bologna, Italy
2010-2011	Principal Investigator	An observational, prospective, multicentric study on spinal fusion procedures MAST™ for the treatment of degenerative spine diseases. Rizzoli Orthopedics Institute, Bologna, Italy
2012- 2014	Assistant Investigator	Comparison between surgical and non surgical treatment for lumbar disc herniation: a randomized study. Rizzoli Orthopedics Institute, Bologna, Italy
2012- 2014	Assistant Investigator	Comparison between surgical and non surgical treatment for lumbar stenosis: a randomized study. Rizzoli Orthopedics Institute, Bologna, Italy
2012- 2014	Assistant Investigator	Comparison between surgical and non surgical treatment for degenerative spondylolisthesis: a randomized study. Rizzoli Orthopedics Institute, Bologna, Italy
2013- 2017	Assistant Investigator	Prospective multicentric clinical study on the use of an elastic silicone polymer (VK-100) for vertebral augmentation (elastoplasty) in failure fractures and in selected cases of pathological fractures. Rizzoli Orthopedics Institute, Bologna, Italy
2013- 2023	Assistant Investigator	Prospective non controlled study to evaluate the efficacy of the treatment of sacrum chordoma by carbon ion therapy- a pilot study. Rizzoli Orthopedics Institute, Bologna, Italy
2013- 2023	Assistant Investigator	Prospective non controlled study to evaluate the efficacy of the treatment of mobile spine chordoma by carbon ion therapy before the surgery- a pilot study. Rizzoli Orthopedics Institute, Bologna, Italy
2014- 2017	Assistant Investigator	A multicenter randomized controlled post-market clinical follow up trial comparing the effectiveness and safety of the iFUSE Implant System® versus conservative management for patients with chronic, disabling SI joint pain. Rizzoli Orthopedics Institute, Bologna, Italy
2014- 2016	Assistant Investigator	Spinal instrumentation systems “CD Horizon® Legacy” and “CD Horizon® Solera”. Retrospective and prospective observational study on the stability of single thread and dual thread pedicle screws. Rizzoli Orthopedics Institute, Bologna, Italy
2014- 2016	Assistant Investigator	CarboFix pedicle screws system. Rizzoli Orthopedics Institute, Bologna, Italy

2015- 2017	Assistant Investigator	PathFx project: study on a tool to evaluate the survival in patients with bone metastases. Rizzoli Orthopedics Institute, Bologna, Italy
2015- 2018	Principal Investigator	Comparison between <i>in toto</i> or concentrated vertebral bone marrow cultured in association with biomaterials in different cell culture conditions and also in the presence of biophysics stimuli. Rizzoli Orthopedics Institute, Bologna, Italy
2015- 2016	Assistant Investigator	Anterior column reconstruction after tumor resection: use of a titanium/carbon cage or allogenic bone graft reinforced with titanium? Rizzoli Orthopedics Institute, Bologna, Italy
2016- 2017	Principal Investigator	Studio in aperto per valutare l'efficacia e la sicurezza di un nuovo idrogel (HYADD4-G) in pazienti con patologia degenerativa del disco. Studio Pilota" Rizzoli Orthopedics Institute, Bologna, Italy
2016- 2021	Assistant Investigator	Studio osservazionale sull'impiego di protesi "custom-made" in titanio realizzate in stampa 3d per la ricostruzione circonfenziale della colonna vertebrale anteriore a seguito di resezioni "en bloc". Rizzoli Orthopedics Institute, Bologna, Italy
2017- ongoing	Principal Investigator	Studio osservazionale retrospettivo e prospettico per la raccolta di dati e la rilevazione degli esiti clinici e radiografici di interventi chirurgici nelle patologie degenerative, oncologiche, infettive e traumatiche della colonna vertebrale. Rizzoli Orthopedics Institute, Bologna, Italy
2017- ongoing	Assistant Investigator	"Primary Tumor Research and Outcome Network (PTRON)": uno studio osservazionale prospettico multicentrico per la gestione dei tumori primitivi della colonna vertebrale. Rizzoli Orthopedics Institute, Bologna, Italy
2017- 2019	Principal Investigator	Impiego del sostituto osseo SintLife® in procedure di artrodesi vertebrale. Studio pilota. Rizzoli Orthopedics Institute, Bologna, Italy
2017- ongoing	Assistant Investigator	Sacral Chordoma: studio randomizzato e osservazionale sulla chirurgia in confronto alla radioterapia nella malattia primitiva localizzata (SACRO).
2018- 2022	Principal Investigator	MSC vs SAE: Studio clinico randomizzato per la valutazione dell'efficacia dell'infiltrazione di concentrato midollare rispetto all'embolizzazione arteriosa selettiva nel trattamento della cisti ossea aneurismatica vertebrale
2018- 2019	Principal Investigator	SINS-67: Valutazione della resistenza meccanica di una vertebra affetta da tumore primitivo o secondario e sua correlazione con SINS score.
2018- ongoing	Assistant Investigator	MTRON: Metastatic Tumor Research and Outcome Network (MTRON): un registro multicentrico per la gestione dei tumori metastatici della colonna vertebrale.
2018- ongoing	Assistant Investigator	Use of devices in non-metallic and X-ray translucent material for vertebral stabilization in patients suffering from thoraco-lumbo-sacral degenerative pathologies.

RESEARCH GRANTS

Year	Position	Grant amount	Grant title / funding source
2007- 2008	Principal Investigator	Euro 15.000	Research program "Evaluation of osteoinduction and osteoconduction of ceramic biomaterials by a new cellular model"/ Finceramica SpA
2007- 2009	Principal Investigator	Euro 150.000	Research program "Molecular approach for the isolation and characterization of the mesenchymal stem cells from adult bone tissue" / Fondazione Cassa di Risparmio in Bologna
2009- 2011	Principal Investigator	CHF 50.000	"Osteoporotic vertebral fractures. Vertebroplast vs kyphoplasty. A randomized study" /AOSPINE Europe.

2011- 2012	Principal Investigator	Euro 45.000	“Osteoporotic vertebral fractures. Vertebroplasty vs kyphoplasty. A randomized prospective study.” / DePuy International Ltd.
2011- 2015	Assistant Investigator	Euro 170.000	Finalized Research program “Comparative effectiveness of treatment for degenerative disease”/ Italian Minister of Health
2014- 2017	Assistant Investigator	Euro 2450 for each patient enrolled	“A multicenter randomized controlled post-market clinical follow up trial comparing the effectiveness and safety of the iFUSE Implant System® versus conservative management for patients with chronic, disabling SI joint pain.”/ SI-BONE Srl.
2014- 2016	Assistant Investigator	Euro 40.000	“Spinal instrumentation systems “CD Horizon Legacy” and “CD Horizon Solera”. Retrospective and prospective observational study on the stability of single and dual thread pedicle screws”/ Medtronic Italia SpA.
2014- 2016	Assistant Investigator	Euro 40.000	“CarboFix pedicle screws system”. / CarboFix Ltd.
2018- 2021	Assistant Investigator	Euro 385.413	qSINS: quantitative revision of the Spinal Instability Neoplastic Score including CT-based assessment of spinal parameters and finite element modeling of vertebral strength. A prospective clinical trial.

HONORS AND AWARDS

Year	Description
2000	Italian Orthopedic and Traumatology Society (SIOT) Prize “Lumbar Instability: mid-term revision of 60 cases treated by Posterior Lumbar Interbody Fusion”
2007	Italian Spine Society - GIS, Best Presentation Award “Minimally invasive percutaneous fixation in spine fractures”
2010	Italian Spine Society - GIS, Best Presentation Award “Mesenchymal stem cells and biomaterials to improve spine fusion”
2014	AOSPINE Europe excellence in education Award
2015	Italian Neurosurgery Society - SiNCH, Best Presentation Award “Biomaterials. A good alternative for spine fusion”
2019	Biomaterials and Novel Technologies for Healthcare- BioMaH- Best Poster Award “Carbon-fiber-reinforced PEEK fixation system in the treatment of spine tumours”
2020	Winner of German Ochoa Traveling Fellowship Award 2020

ORGANIZATION OF CONGRESSES:

30.09.2015: Member of the Scientific Committee of the congress "Degenerative disease of the lumbar spine- The treatment: What- How-When- Why?", Istituto Ortopedico Rizzoli, Bologna.

17.02.2017: President of the Congress "Biomaterials and Biotechnologies in spinal surgery", Istituto Ortopedico Rizzoli, Bologna.

9.02.2018: President of the Congress "The patient's safety in orthopedics surgery", Istituto Ortopedico Rizzoli, Bologna.

12.04.2019: AOSpine local seminar "Complications in spinal surgery", Istituto Ortopedico Rizzoli, Bologna.

PUBLICATIONS (CON IF)

1. Baldini N, Scotlandi K, Barbanti-Bròdano G, Manara MC, Maurici D, Bacci G, Bertoni F, Picci P, Sottili S, Campanacci M, and Serra M: "Expression of P-glycoprotein in high-grade osteosarcomas in relation to Clinical Outcome" *N Engl J Med* 1995;333:1380-5. IF= 79,260
2. Baruffaldi F, Barbanti-Bròdano G, Testoni M, Gnudi S, Paderni S, Toni A, Giunti A: "La densitometria femorale quale possibile indicatore preoperatorio alla cementazione della protesi d'anca" *Radiol Med* 1996;92:193-198. IF= 1,819
3. Serra M, Scotlandi K, Manara MC, Maurici D, Benini S, Sarti M, Nini G, Barbanti-Bròdano G, and Baldini N: "Evaluation of P-glycoprotein expression in soft tissue sarcomas of the extremities" *Cytotechnology* 1996;19:253-256. IF= 1,461
4. Greggi T, Barbanti-Bròdano G, Tabarroni M, Parisini P: "La diastematomyelia nella scoliosi congenita. Revisione della letteratura e descrizione di un caso clinico" *Chir Organi Mov* 1997;LXXXII:83-89.
5. Baruffaldi B, Mattioli P, Testoni M, Toani A, Barbanti-Bròdano G, Binazzi R, Amoroso L, Cerioni M, Verhulst D, De Groof E, Klutke J: "The ph-net project: a feasibility study for ISDN based applications of telemedicine in the orthopaedic field" *Adv Clin Path* 1998;2:127-189.
6. Serra M, Maurici D, Scotlandi K, Barbanti-Bròdano G, Manara MC, Benini S, Picci P, Bertoni F, Bacci G, Sottili S, and Baldini N: "Relationship between P-glycoprotein and p53 in high-grade osteosarcoma" *Int J Oncology* 1999;14:301-307. IF= 3,333
7. Sudanese A, Toni A, Terzi S, Brizio L, Barbanti-Bròdano G, Testoni M, Guerra E, Giunti A: "Artroprotesi d'anca dopo osteotomia femorale" *Chir Organi Mov* 1999;LXXXIV:37-48.
8. Barbanti Bròdano G, Rodorigo G, Tigani D, Moio A, De Rosa V: "L'artropatia da deficit del fattore VII della coagulazione. Descrizione di un caso clinico" *Chir Organi Mov*; 1999;LXXXIV:387-391.
9. Testoni M, Baruffaldi F, Mattioli P, Sudanese A, Terzi S, Barbanti-Bròdano G, Toni A: "The evaluation of radiolucency condition in total hip arthroplasty: a statistical comparison of the diagnostic capability of digitised image versus conventional x-ray film" *European Radiology* 2000;10,601-608. IF= 4,027
10. Pignatti G, Barbanti Bròdano G, Ferrari D, Gherlinzoni F, Bertoni F, Bacchini P, Barbieri E, Giunti A, and Campanacci M: "Extraabdominal desmoid tumor. A Study of 83 cases" *Clin Orthop and Related Res* 2000;375,207-213. IF= 4,091
11. Guzzardella GA, Morrone G, Torricelli P, Rocca M, Tigani D, Barbanti Bròdano G, Ferrari D, Fini M, Giardino R: "Assesment of low-power laser biostimulation on chondral lesion: an "in vivo" experimental study" *Artificial Cells, Blood Substitutes, Immobilization Biotechnology* 2000;28(5),441-449.
12. Morrone G, Guzzardella GA, Torricelli P, Rocca M, Tigani D, Barbanti Bròdano G, Fini M, Giardino R: "Osteochondral lesion repair of the knee in the rabbit after low-power diode GA-AL-AS laser biostimulation: an experimental study" *Artificial Cells, Blood Substitutes, Immobilization Biotechnology* 2000;28(4),321-336.
13. Trentani P, Ferrari D, Trentani F, Barbanti Bròdano G, Tigani D: "Frattura sovracondiloidea del femore secondaria ad artroprotesi totale di ginocchio. Descrizione di due casi clinici" *Chir Organi Mov*. 2000 Jan-Mar;85(1):73-8. Review.
14. Barbanti Bròdano G, Donati U, Palmisani M, Pompili M, Boriani S: "Artrodesi lombare intersomatica per via posteriore. Revisione a medio termine di 60 casi" *Chir Organi Mov* 2000;LXXXV,345-360.
15. Barbanti Bròdano G, Bandiera S, Pascarella R, Gasbarrini A: "Instabilità lombare: revisione a medio termine di 60 casi trattati mediante artrodesi lombare intersomatica per via posteriore" *Spine News* 2000;X,3,256-262.
16. Pignatti G, Barbanti Bròdano G, Marinelli A, Bertoni F, Giunti A: Lumbar intraspinal mucous cyst: case report" *J Orthopaed Traumatol* 2001;1,51-53.
17. Barbanti Bròdano G, Donati U, Palmisani M, Pompili M, Boriani S: "Artrodesi lombare intersomatica mediante cunei di carbonio - ramps" *Ospedali della Vita* 2001;1,15-20.
18. Tigani D, Ferrari D, Treantani P, Barbanti Bròdano G, Trentani F: "Patellar height after high tibial osteotomy" *International Orthopaedics* 2001;24,331-334.
19. Gasbarrini, E. Bertoldi, S. Bandiera, L. Mirabile, M. Cappuccio, G. Barbanti, S. Boriani: Indicazioni e risorse nel trattamento chirurgico delle metastasi ossee. *TUMORI a Journal of Experimental and Clinical Oncology. Supplement 1 to volume 87, Number 3, S51 may-june 2001.*

20. Pascarella R, Bertoldi E, Maresca A, Palumbi P, Barbanti Bròdano G, Boriani S: "Le fratture persottotrocanteriche dell'anziano: trattamento con inchiodamento bloccato" *Ortopedia e Traumatologia* 2002;XLIV,1,61-65.
21. F. De Iure, G. Scimeca, U. Donati, M. Palmisani, A. Gasbarrini, S. Paderni, D. Gemma, S. Boriani: Fratture e lussazioni del rachide cervicale inferiore: revisione di 72 casi operati presso la Divisione di Ortopedia e Traumatologia dell'Ospedale Maggiore di Bologna. *Il Rachide. Italian Journal of Spinal Disorders*. Vol. 2-Fasc. 1-Anno 2002
22. M. Palmisani, A. Gasbarrini, G.B. Scimeca, G. Barbanti Bròdano, U. Donati, F. De Iure, L. Mirabile, S. Boriani: Il trattamento chirurgico delle fratture del rachide toracico e lombare nel paziente politraumatizzato. *Il Rachide. Italian Journal of Spinal Disorders*. Vol. 2-Fasc.1-Anno 2002.
23. G. Barbanti Bròdano, G. Muratori, F. Giardina, S. Bandiera, A. Gasbarrini, F. De Iure, S. Boriani: Artrodesi lombare intersomatica per via posteriore mediante cages in PEEK; Risultati preliminari. *G.I.O.T.* 2002;28:145-151.
24. S. Bandiera, A. Gasbarrini, F. De Iure, G. Barbanti Brodano, L. Mirabile, E. Bertoldi, M. Cappuccio, S. Boriani: Stadiazione, Terminologia, Trattamento Oncologico dei Tumori Ossei del Rachide *REUMATISMO*. 2003 ° Vol. 55. N.1 (Suppl.1) – III° Corso di Aggiornamento – Le Urgenze Reumatologiche. *Il Dolore Lombare – Bologna*, 20-31 maggio 2003 (pag.36)
25. Gasbarrini, L. Mirabile, S. Bandiera, G. Barbanti Brodano, F. De Iure, M. Fravisini, S. Boriani: La Patologia Lombare: Indicazioni al Trattamento Videoassistito. *REUMATISMO*. 2003 ° Vol. 55 ° N.1 (Suppl. 1) – III° Corso di Aggiornamento – Le Urgenze Reumatologiche. *Il Dolore Lombare – Bologna*, 20-31 maggio 2003 (pag.91)
26. De Iure F, Scimeca G B, Palmisani M, Donati U, Gasbarrini A, Bandiera S, Barbanti Bròdano G,, Giardina F, Boriani S: "Fractures and dislocations of the lower cervical spine: surgical treatment. A reveiw of 83 cases" *Chir Organi Mov* 2003;88(4),397-410.
27. A. Gasbarrini, L. Mirabile, E. Bertoldi, M. Russo, M. Commessatti, M. Fravisini, S. Bandiera, G. Barbanti, M. Palmisani, S. Boriani. Il ruolo dell'Agobiopsia TC-guidata nel trattamento delle spondilodisciti. *Minerva Chirurgica*. Vol. 59. Suppl. 1. N.2. Aprile 2004.
28. M. Palmisani, F. De Iure, A.Gasbarrini, G. Barbanti Brodano, S. Boriani. Fratture vertebrali toraciche e lombari: trattamento. *Aggiorn Club Ital Osteosint* (2004) 10:17-23 □ Springer – Verlag 2004.
29. G. Barbanti Bròdano, A. Gasbarrini, S. Bandiera, G.B. Scimeca, F. De Iure, M. Palmisani, U. Donati, S. Boriani. Intervento più leggero per le fratture vertebrali. *OdV* n°4/ottobre 2004.
30. Gasbarrini A, Cappuccio, Mirabile L, Bandiera S, Terzi S, Barbanti Bròdano G, Boriani S: "Spinal metastases: treatment evaluation algorithm" *Eur Rev Med Pharmacol Sci* 2004; 8(6),265-74. IF= 2,387
31. Cappuccio M, Bandiera S, GasbarriniA, De Iure F, Barbanti Bròdano G, Scimeca GB, Presutti L, Cocchi R, Boriani S: "Giant cell tumor of the upper cervical spine: transmandibular-translingual access. Clinical case" *Chir Organi Mov* 2004; 89(4),305-12.
32. Gasbarrini AL, Bertoldi E, Mazzetti M, Fini L, Terzi S, Gonella F., Mirabile L, Barbanti Bròdano G, Furno A, Gasbarrini A, Boriani S: "Clinical features, diagnostic and therapeutic approaches to haematogenous vertebral osteomyelitis" *Eur Rev Med Pharmacol Sci* 2005; 9(1),53-66. IF= 2,387
33. A.Gasbarrini, M. Russo, L.Mirabile, G. Barbanti Bròdano, S. Bandiera, P. Orlandi, M. Capuccio, A. Maresca, S. Boriani. L'ago-biopsia TC-guidata nelle lesioni rachidee: indicazioni e tecnica. *G.I.O.T* 2005;31:61-67.
34. S. Boriani, S. Bandiera, A. Gasbarrini, G. Barbanti Brodano, F. De Iure, M. Cappuccio, L. Mirabile. Sostituzione del corpo vertebrale con protesi di carbonio modulare dopo resezione in chirurgia oncologica (90 casi in 89 pazienti). *G.I.O.T.* 2005; 31 (Suppl.2): S388-S399.
35. Fravisini M, Barbanti Bròdano G, Boriani S. " Nonsurgical treatment of multiple vertebral fractures. Clinical cases review of the literature" *Chir Organi Mov* 2005;90(1),41-7.
36. M Cappuccio, S. Bandiera, A.Gasbarrini, L. Mirabile, G. B. Brodano, L. Boriani, S. Boriani. Treatment Options in Spine Metastases of renal cell carcinoma. 19th National Congress of the Italian Polyspecialist Society of Young Surgeons (IPSYS). June, 21-23, 2006, Bologna, Italy. *European Surgical Research* 2006; 38: 129-312. IF= 1,343
37. A.Gasbarrini, S. Bandiera, L. Mirabile, M. Cappuccio, S. Terzi, G. Barbanti Brodano, L. Boriani, S. Boriani. Vertebral Osteomyelitis: Diagnostic and Therapeutic Algorithm. *Journal of Orthopaedics and Traumatology*. Volume 7- Supplement 1- November 2006. S5-S6
38. G. Barbanti Brodano, A. Gasbarrini, F. De Iure, L. Mirabile, L. Boriani, M. Palmisani, S. Bandiera, G.B. Scimeca, S. Boriani. Minimally invasive percutaneous osteosynthesis in the treatment of adult and old patient spine fractures. *Journal of Orthopaedics and Traumatology*. Volume 7- Supplement 1- November 2006. S6
39. Gasbarrini, M. Cappuccio, S. Bandiera, L. Mirabile, G. Barbanti Brodano, M. Palmisani, S. Boriani. Spinal Metastases: Treatment Evaluation Algorithm. *Journal of Orthopaedics and Traumatology*. Volume 7- Supplement 1- November 2006. S22
40. G. Barbanti Brodano, M. Cappuccio, L. Mirabile, A.Gasbarrini, S. Boriani. Cement Leakage in Patients Affected by Secondary Osteoporosis Due

To Multiple Myeloma and Chronic Myeloid Leukemia Treated With Vertebroplasty. Two Case Reports and Revision of the Literature. *Journal of Orthopaedics and Traumatology*. Volume 7- Supplement 1- November 2006. S25

41. M. Palmisani, G.B Scimeca, A.Gasbarrini, F. De Iure, L. Boriani, G. Barbanti Brodano, S. Boriani. Treatment of Thoracic and Lumbar Spine Lesions. Bologna Maggiore Hospital Experience. *Journal of Orthopaedics and Traumatology*. Volume 7- Supplement 1- November 2006. S45.
42. Gasbarrini, S. Bandiera, G. Barbanti Brodano, L. Mirabile, M. Cappuccio, L. Boriani, S. Boriani. Diagnostic Accuracy of CT- Scan – Directed Trocar Biopsy of the Spine, *Journal of Orthopaedics and Traumatology*. Volume 7- Supplement 1- November 2006. S57-S58
43. S. Bandiera, F. De Iure, A.Gasbarrini, M. Cappuccio, L. Mirabile, G. Barbanti Brodano, L. Boriani, S. Boriani. En Bloc Resection of Primary Bone Tumors of the Spine. *Journal of Orthopaedics and Traumatology*. Volume 7- Supplement 1- November 2006. S58
44. G. Barbanti Brodano, S. Boriani, K. Campioni, M. Tognon, C. Morelli. CFRP cages favour osteoblast adhesion and proliferation better than the PEEK ones. *Journal of Orthopaedics and Traumatology*. Volume 7- Supplement 1- November 2006. S58
45. G. Barbanti Brodano, M. Cappuccio, L. Boriani, F. De Iure, A.Gasbarrini, F. De Salvo, S. Boriani. Pain Control and Functional Recovery in Patients Affected by Spine Fracture Due To Osteoporosis. A Comparison Between Vertebroplasty and Kiphoplasty. *Journal of Orthopaedics and Traumatology*. Volume 7- Supplement 1- November 2006. S59
46. G. Barbanti Brodano, L. Mirabile, L. Boriani, E. Magni, R. Piperno, S. Boriani. Multidisciplinary diagnostic-therapeutic approach to the “failed low-back syndrome”. *Journal of Orthopaedics and Traumatology*. Volume 7- Supplement 1- November 2006. S59
47. G. Barbanti Brodano, M. Palmisani, L. Mirabile, A.Gasbarrini, S. Bandiera, F. De Iure, G.B Scimeca, S. Paderni, S. Boriani. Posterior Lumbar Interbody Fusion (PLIF) in Degenerative Spine Disease. Long Term Results. *Journal of Orthopaedics and Traumatology*. Volume 7- Supplement 1- November 2006. S59
48. Morelli C, Barbanti Bròdano G, Ciannilli A, Campioni K, Boriani S, Tognon M. Cell morphology, markers spreading, and proliferation on orthopaedic biomaterials. An innovative cellular model for the “in vitro study” *J Biomed Mater Res* 2007;83(1),178-83. IF= 3,231
49. G. Barbanti Brodano, F. De Iure, M. Cappuccio, M. Palmisani, L. Boriani, A. Gasbarrini, S. Bandiera, G.B. Scimeca, S. Boriani. Osteosintesi con tecnica percutanea mininvasiva nel trattamento delle fratture vertebrali toraciche e lombari. Esperienza preliminare. *G.I.O.T.* 2007; 33:78-85.
50. Barbanti Bròdano G, Cappuccio M, Gasbarrini A, Bandiera S, De Salvo F, Cosco F, Boriani S: “Vertebroplasty in the treatment of vertebral metastases: clinical cases and review of the literature” *Eur Rev Med Pharmacol Sci* 2007,11(2),91-100. IF= 2,387
51. G. Barbanti Bròdano, C. Morelli, M. Cappuccio, C. Di Bona, A. Gasbarrini, M. Tognon, S. Boriani. Le cages in CFRP favoriscono la replicazione e l’adesione degli osteoblasti rispetto a quelle in PEEK. Analisi mediante un modello innovativo per lo studio in vitro dei biomateriali. *G.I.O.T* 2008; 34 :226-232
52. Gregg T, Bakaloudis G, Lolli F, Di Silvestre M, Cioni A, Giacomini S, Barbanti Bròdano G, Vommaro F, Martikos K, Parisini P. Thoracoplasty in the surgical treatment of adolescent idiopathic scoliosis. *Stud Health Technol Inform* 2008; 140,289-93.
53. Cappuccio M, Gasbarrini A, Bandello L, Focarazzo E, Bandiera S, De Iure F, Barbanti Bròdano G, Boriani S: “The surgical treatment of renal cell carcinoma metastases to the vertebrae: intra-operative anesthesia related problems” *Clin Ter* 2008,159(1),23-8.
54. Palmisani M, Gasbarrini A, Barbanti Bròdano G, De Iure F, Cappuccio M, Boriani L, Amendola L, Boriani S: “Minimally invasive percutaneous fixation in the treatment of thoracic and lumbar spine fractures” *Eur Spine J* 2009;18 suppl1,71-4. IF= 2,634
55. Boriani S, Cappuccio M, Barbanti Brodano G, Scimeca G B, Gasbarrini A (2009). Il Ruolo Della Fissazione Percutanea Nelle Fatture Traumatiche In Eta’ Adulta e Nella Patologia Oncologica. *Giornale Italiano Di Ortopedia e Traumatologia*, vol. 35, p. S201-S205.
56. Gregg T, , Martikos K, Lolli F, Bakaloudis G, Di Silvestre M, Cioni A, Barbanti Bròdano G, Giacomini S: “Treatment of scoliosis in patients affected with Prader-Will syndrome using various techniques” *Scoliosis* 2010;15,5,11.
57. Gregg T, Bakaloudis G, Fusaro I, Di Silvestre M, Lolli F, Martikos K, Vommaro F, Barbanti Bròdano G, Cioni A, Giacomini S: “Pulmonary function after thoracoplasty in the surgical treatment of adolescent idiopathic scoliosis” *J Spinal Disord Tech* 2010;23(8),e63-9. IF= 2,310
58. G. Barbanti Brodano, F. Lolli, K. Martikos, A. Gasbarrini, S. Bandiera, T. Gregg, P. Parisini, S. Boriani. Fueling the debate: are outcomes better after PLIF or after PLF in adult patients with low grade adult isthmic spondylolisthesis? *Evidence-Based Spine-Care Journal* 2010; vol. 1, p. 29-34.
59. Boriani S, Cappuccio M, Bandiera S, Barbanti Brodano G, Terzi S, Colangeli S, Amendola L, Gasbarrini A. Scelta Del Trattamento Nelle Metastasi Del Rachide Toraco-Lombare. *Giornale Italiano Di Ortopedia e Traumatologia* 2010; vol. 36, p. S17-S19.
60. A.Gasbarrini, R. Ghermandi, S. Bandiera, G. Barbanti Brodano, S. Terzi, L. Boriani, A. Corghi, S. Colangeli, C. Simoes, L. Babbi, F. Santoro, S. Boriani. A new device for the protection of the dura during en bloc resection. *JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY* (2011) 12 (Suppl 1): S89-S123.

61. G. Barbanti-Brodano, K. Martikos, F. Lolli, A. Gasbarrini, S. Bandiera, S. Colangeli, L. Boriani, A. Corghi, T. Gregg, S. Boriani. Posterior transforaminal instrumented interbody fusion (TLIF): comparing open and minimally invasive surgery. *JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY* (2011) 12 (Suppl 1): S23-S88.
62. S. Colangeli A. Gasbarrini, G. Barbanti-Brodano, S. Bandiera, S. Terzi, L. Boriani, A. Corghi, R. Ghermandi, L. Babbi, S. Boriani. Hybrid instrumental vertebral stabilization; evaluation of 40 cases treated from 2000 to 2011. *JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY* (2011) 12 (Suppl 1): S23-S88.
63. L. Boriani, A. Gasbarrini, E. Zamparini, C.Nanni, G. Rorato, C. Salvatori, V. Allegri, S. Bandiera, G. Barbanti-Brodano, S. Terzi, S. Colangeli, A. Corghi, R. Ghermandi, L. Babbi, R. Ciminari, M.C Malaguti, E. Rimondi, U. Abissini, S. fanti, P. Viale, S. Boriani. Spinal infection multidisciplinary management project (SIMP): a new approach to spine infections. *JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY* (2011) 12 (Suppl 1): S23-S88.
64. L. Babbi, A. Gasbarrini, S. Bandiera, G. Barbanti Brodano, S. Terzi, S. Colangeli, L. Boriani, R. Ghermandi, M.Cappuccio, S. Boriani. Surgical treatment of metastatic renal carcinoma of the cervical spine. *JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY* (2011) 12 (Suppl 1): S23-S88.
65. A.Corghi, S. Terzi, S. Bandiera, G. Barbanti Brodano, L. Boriani, S. Colangeli, A. Gasbarrini, L. Babbi, R. Ghermandi, S. Boriani. Musculoskeletal tumors and metabolic diseases 3. Mini Invasive stabilization in patients with plasmocitoma of the spine. *JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY* (2011) 12 (Suppl 1): S1-S22.
66. S. Colangeli, A. Gasbarrini, S. Bandiera, G. Barbanti Brodano, S. Terzi, L. Boriani, A. Corghi, R. Ghermandi, L. Babbi, M. Cappuccio, S. Boriani. The treatment of spinal metastases from renal carcinoma: review of 108 cases treated from 1996 to 2011. *JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY* (2011) 12 (Suppl 1): S1-S22.
67. R. Ghermandi, S. Bandiera, A. Gasbarrini, G. Barbanti Brodano, S. Terzi, L. Boriani, A. Corghi, S. Colangeli, L. Babbi, F. Santoro, S. Boriani. The role of the selective arterial embolization for the treatment of aneurismal bone cyst of the spine: a prospective study. *JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY* (2011) 12 (Suppl 1): S1-S22.
68. R. Ghermandi, S. Bandiera, A. Gasbarrini, G. Barbanti Brodano, S. Terzi, L. Boriani, A. Corghi, S. Colangeli, C. Simoes, L. Babbi, F. Santoro, S. Boriani. Musculoskeletal tumors and metabolic diseases 2. Spine osteoblastoma: staging, treatment and outcome. *JOURNAL OF ORTHOPAEDICS AND TRAUMATOLOGY* (2011) 12 (Suppl 1): S1-S22.
69. Bakaloudis G, Lolli F, Di Silvestre M, Gregg T, Astolfi S, Martikos K, Vommaro F, Barbanti Bròdano G, Cioni A, Giacomini S: " Thoracic pedicle subtraction osteotomy in the treatment of severe pediatric deformities" *Eur Spine J* 2011;20 suppl 1,S95-104. IF= 2,634
70. Gasbarrini A, Boriani L, Nanni C, Zamparini E, Rorato G, Ghermandi E, Salvadori C, Allegri V, Bandiera S, Barbanti Bròdano G, Colangeli S, Corghi A, Terzi S, Babbi L, Amendola L, Cristini F, Marinacci G, Tumietto F, Ciminari R, Malaguti MC, Rimondi E, Difiore M, Bacchin R, Facchini F, Frugieuele J, Morigi A, Albisinni U, Bonarelli S, Fanti S, Viale P, Boriani S: "Spinal infection multidisciplinary management project (SIMP): from diagnosis to treatment guideline" *Int J Immunopathol Pharmacol* 2011; 24(1suppl2),95-100. IF= 2,117
71. Barbanti Bròdano G, Amendola L, Martikos K, Bettuzzi C, Boriani L, Gasbararini A, Bandiera S, Terzi S, Gregg T, Boriani S: "Vertebroplasty: benefits are more than risks in selected and evidence-based informed patients. A retrospective study of 59 cases" *Eur Spine J* 2011; 20(8)1265-71. IF= 2,634
72. Gasbarrini A, Simoes CE, AmendolaL, Bandiera S, Barbanti Bròdano G, Cappuccio M, Boriani S: " Influence of a Thread Wire Sae guide and Spinal Cord Protector Device in "En Bloc" Vertebrectomies" *J Spinal Disord Tech Epub* nov 18, 2011. IF= 2,310
73. Barbanti Bròdano G, Colangeli S, Babbi L, Gasbarrini A, Bandiera S, Terzi S, Griffoni C, Di Fiore M, Boriani L, Corghi A, Boriani S: "Osteoporotic vertebral fractures: a disabling and expensive disease of our century. A minimally invasive surgical techniques to reduce the pain, the hospitalization and restore the function" *Eur Rev Med Pharmacol Sci* 2011,15(12),1473-7. IF= 2,387
74. M. Manfrini, M. Fiorini, G. Barbanti-Brodano, D. Pressato, M. Tognon. "New generation of orthopaedic mimetic bioceramics assayed with human mesenchymal stem cells". *European Musculoskeletal Review* 2011; 6 (2): 96-99.
75. Barbanti Brodano G, Mazzoni E, Tognon M, Griffoni C, Manfrini M. Human mesenchymal stem cells and biomaterials interaction: a promising synergy to improve spine fusion. *Eur Spine J*. 2012 May;21 Suppl 1:S3-9. PMID: 22421891. IF= 2,634
76. Terzi S, Mobarec S, Bandiera S, Gasbarrini A, Barbanti-Bròdano G, Alberghini M, Boriani S. Diagnosis and treatment of benign notochordal cell tumors of the spine: report of 3 cases and literature review. *Spine (Phila Pa 1976)*. 2012 Oct 1;37(21):E1356-60. IF= 2,792
77. Bandiera S, Gasbarrini A, Barbanti Brodano G, Terzi S, Colangeli S, Ghermandi R, Babbi L, Amendola L, Griffoni C, Boriani S. Le neoplasie del tratto lombare: trattamento chirurgico. *Lo Scalpello* 2012; 26: 149- 153.
78. Barbanti Brodano G, Amendola L, Martikos K, Bettuzzi C, Boriani L, Gasbarrini A, Bandiera S, Terzi S, Babbi L, Griffoni C, Boriani S. Il trattamento percutaneo dei crolli osteoporotici del corpo vertebrale. *Lo Scalpello* 2012; 26: 154- 159.
79. Manfrini M, Di Bona C, Canella A, Lucarelli E, Pellati A, D'Agostino A, Barbanti-Bròdano G, Tognon M. Mesenchymal stem cells from patients to

assay bone graft substitutes. *J Cell Physiol.* 2012 Nov 5. doi: 10.1002/jcp.24276. [Epub ahead of print]. PMID: 23129455. IF= 3,923

80. Picchi J, Trombi L, Spugnesi L, Barachini S, Maroni G, Brodano GB, Boriani S, Valtieri M, Petrini M, Magli MC. HOX and TALE signatures specify human stromal stem cell populations from different sources. *J Cell Physiol.* 2012 Sep 27. doi: 10.1002/jcp.24239. [Epub ahead of print] IF= 3,923
81. G. Barbanti Brodano, S. Terzi, C. Griffoni, A. Gasbarrini, S. Bandiera, S. Colangeli, L. Boriani, R. Ghermandi, L. Babbi, S. Boriani. Benefits are more than risks in the surgical treatment of adult degenerative scoliosis? *Eur Spine J* 2012; 21: 769. IF= 2,634
82. G. Barbanti Brodano, J. Picchi, G. Maroni, L. Trombi, S. Barachini, C. Griffoni, M. Valtieri, M.C. Magli. Mesenchymal stem cells derived from vertebrae (vMSC) show best biological properties. *Eur Spine J* 2012; 21: 772. IF= 2,634
83. G. Barbanti Bròdano, F. Lolli, G. Giavaresi, F. Salamanna, M. Fini, L. Martini, T. Greggi, S. Boriani. Biomaterials as valid alternative to autologous and homologous bone graft for spinal fusion: a study in vivo. *Eur Spine J* 2012; 21: 774. IF= 2,634
84. S. Bandiera, JG Rodriguez, L. Babbi, A. Gasbarrini, G. Barbanti Brodano, S. Terzi, L. Boriani, S. Colangeli, R. Ghermandi, S. Boriani. Navigation assisted surgery for tumors of the spine. *Eur Spine J* 2012; 21: 778. IF= 2,634
85. G. Barbanti Brodano, A. Gasbarrini, S. Bandiera, L. Boriani, R. Ghermandi, S. Colangeli, L. Babbi, S. Terzi, C. Griffoni, S. Boriani. Comparison between posterior interbody fusion (PLIF) and transforaminal interbody fusion (TLIF) in the treatment of degenerative and isthmic spondylolisthesis. *Eur Spine J* 2012; 21: 784. IF= 2,634
86. S. Colangeli, G. Barbanti Brodano, A. Gasbarrini, S. Bandiera, S. Terzi, L. Babbi, R. Ghermandi, L. Boriani, A. Corghi, S. Boriani. The rods in PEEK: short-term results in lumbar degenerative diseases. *Eur Spine J* 2012; 21: 799. IF= 2,634
87. A. Gasbarrini, S. Terzi, S. Colangeli, L. Babbi, S. Bandiera, G. Barbanti Brodano, L. Boriani, R. Ghermandi, C. Griffoni, L. Amendola, JG Rodriguez, S. Boriani. Fenestrated pedicle screws in patients with poor quality of vertebral bone: a review of 83 cases. *Eur Spine J* 2012; 21: 799. IF= 2,634
88. G. Barbanti Brodano, S. Bandiera, A. Gasbarrini, R. Ghermandi, L. Babbi, C. Griffoni, L. Boriani, S. Colangeli, S. Terzi, S. Boriani. Vertebroplasty and kyphoplasty: comparison between two techniques for the treatment of osteoporotic vertebral fractures. *Eur Spine J* 2012; 21: 812. IF= 2,634
89. L. Babbi, R. Ghermandi, G. Barbanti Brodano, A. Gasbarrini. Tumore glomico della mano: report di una lunga storia clinica. *GIOT* 2012; 38: 273-275.
90. M. Manfrini, G. Barbanti-Bròdano, E. Mazzoni, J. Palatini, S. Warner, M. Previati, S. Capitani, M. Tognon, C.M. Croce, S. Volinia. MicroRNA regulatory networks are involved in osteogenic differentiation of human mesenchymal stem cells from bone marrow. *Eur J Histochem* 2013; vol. 57, suppl. 1, pag. 7. IF= 2,217
91. Bandiera S, Ghermandi R, Gasbarrini A, Barbanti Bròdano G, Colangeli S, Boriani S. Navigation-assisted surgery for tumors of the spine. *Eur Spine J.* 2013 Nov;22 Suppl 6:S919-24. IF= 2,634
92. Barbanti Bròdano G, Terzi S, Gasbarrini A, Bandiera S, Simoes C, Boriani S. Do benefits overcome the risks related to surgery for adult scoliosis? A detailed analysis of a consecutive case series. *Eur Spine J.* 2013 Nov;22 Suppl 6:S795-802. IF= 2,634
93. Barbanti Brodano G, Terzi S, Trombi L, Griffoni C, Valtieri M, Boriani S, Magli MC. Mesenchymal stem cells derived from vertebrae (vMSCs) show best biological properties. *Eur Spine J.* 2013 Nov;22 Suppl 6:S979-84. IF= 2,634
94. Barbanti Bròdano G, Serchi E, Babbi L, Terzi S, Corghi A, Gasbarrini A, Bandiera S, Griffoni C, Colangeli S, Ghermandi R, Boriani S. Is lumbar drainage of postoperative cerebrospinal fluid fistula after spine surgery effective? *J Neurosurg Sci.* 2014 Mar;58(1):23-7. IF= 1,767
95. Bròdano GB, Giavaresi G, Lolli F, Salamanna F, Parrilli A, Martini L, Griffoni C, Greggi T, Arcangeli E, Pressato D, Boriani S, Fini M. Hydroxyapatite-Based Biomaterials vs. Autologous Bone Graft in Spinal Fusion: An in Vivo Animal Study. *Spine (Phila Pa 1976).* 2014 Apr 8. [Epub ahead of print] PubMed PMID: 24718060. IF= 2,792
96. S. Terzi, C. Griffoni, L. Babbi, G. Barbanti Brodano. Surgical treatment of thoraco-lumbar fractures in sickle cell disease: a case report. *Eur Rev Med Pharmacol Sci* 2014; 18 (1 Suppl): 84-88. IF= 2,387
97. G. Barbanti Brodano, K. Martikos, F. Vommaro, T. Greggi, S. Boriani. Less invasive surgery in idiopathic scoliosis: a case report. *Eur Rev Med Pharmacol Sci* 2014; 18 (1 Suppl): 24-28. IF= 2,387
98. L. Babbi, S. Terzi, S. Bandiera, G. Barbanti Brodano. Spina bifida occulta in high grade spondylolisthesis. *Eur Rev Med Pharmacol Sci* 2014; 18 (1 Suppl): 8-14. IF= 2,387
99. Mazzoni E, Benassi MS, Corallini A, Barbanti-Brodano G, Taronna A, Picci P, Guerra G, D'Agostino A, Trevisiol L, Nocini PF, Casali MV, Barbanti-Brodano G, Martini F, Tognon M. Significant association between human osteosarcoma and simian virus 40. *Cancer* 2015 Mar 1;121(5):708-15. IF= 6,537

100. Manfrini M, Mazzoni E, Barbanti-Brodano G, Nocini P, D'agostino A, Trombelli L, Tognon M. Osteoconductivity of Complex Biomaterials Assayed by Fluorescent-Engineered Osteoblast-like Cells. *Cell Biochem Biophys*. 2015 Apr;71(3):1509-15. IF= 1,455
101. Colangeli S, Barbanti Brodano G, Gasbarrini A, Bandiera S, Mesfin A, Griffoni C, Boriani S. Polyetheretherketone (PEEK) rods: short-term results in lumbar spine degenerative disease. *J Neurosurg Sci*. 2015 Jun;59(2):91-6. IF= 1,767
102. Paulo Pereira, David Buzek, Jörg Franke, Wolfgang Senker, Arkadiusz Kosmala, Ulrich Hubbe, Neil Manson, Wout Rosenberg, Roberto Assietti, Frederic Martens, Giovanni Barbanti Brodano, Kai-Michael Scheufler. Surgical Data and Early Postoperative Outcomes after Minimally Invasive Lumbar Interbody Fusion: Results of a Prospective, Multicenter, Observational Data-Monitored Study. *PLOS ONE* 2015; Mar 26; 10(3):e0122312. IF= 2,766
103. Barbanti Brodano G, Griffoni C, Zanotti B, Gasbarrini A, Bandiera S, Ghermandi R, Boriani S. A post-market surveillance analysis of the safety of hydroxyapatite-derived products as bone graft extenders or substitutes for spine fusion. *Eur Rev Med Pharmacol Sci* 2015; 19: 3548-3555. IF= 2,387
104. Barbanti Brodano G, Martikos K, Lolli F, Gasbarrini A, Cioni A, Bandiera S, Di Silvestre M, Boriani S, Greggi T. Transforaminal Lumbar Interbody Fusion in Degenerative Disc Disease and Spondylolisthesis Grade I: Minimally Invasive Versus Open Surgery. *J Spinal Disord Tech*. 2015;28:E559–E564. IF= 2,310
105. Terzi S, Calabrò T, Brodano GB, Gasbarrini A, Boriani S Systemic Amyloidosis with Predominant Spine Involvement: A Case Report. *Orthop Muscular Syst* 2015; 5: 202. doi:10.4172/2161-0533.1000202.
106. Barbanti Brodano G, Babbi L, Girolami M, Gasbarrini A, Bandiera S, et al. (2015) Adult scoliosis: A Retrospective Analysis of the Correlation between Radiological Parameters and Clinical Outcomes. *J Spine* 4:269.doi:10.4172/2165-7939.1000269.
107. Franke J, Manson N, Buzek D, Kosmala A, Hubbe U, Rosenberg W, Pereira P, Assietti R, Martens F, Lam K, Barbanti Brodano G, Durny P, Lidar Z, Scheufler K, Senker W. MASTERS-D Study: A Prospective, Multicenter, Pragmatic, Observational, Data-Monitored Trial of Minimally Invasive Fusion to Treat Degenerative Lumbar Disorders, One-Year Follow-Up. *Cureus*. 2016 Jun 13;8(6):e640.
108. Babbi L, Barbanti-Brodano G, Gasbarrini A, Boriani S. Iliac crest bone graft: a 23-years history of infection at donor site in vertebral arthrodesis and a review of current bone substitutes. *Eur Rev Med Pharmacol Sci*. 2016 Nov;20(22):4670-4676. IF= 2,387
109. Terzi S, Gasbarrini A, Fuiano M, Barbanti Brodano G, Ghermandi R, Bandiera S, Boriani S. Efficacy and Safety of Selective Arterial Embolization in the Treatment of Aneurysmal Bone Cyst of the Mobile Spine. A Retrospective Observational Study. *Spine (Phila Pa 1976)*. 2016 Dec 22. doi: 10.1097/BRS.0000000000002017. IF= 2,792
110. Giovanni Barbanti-Brodano, Marco Girolami, Riccardo Ghermandi, Silvia Terzi, Alessandro Gasbarrini, Stefano Bandiera, Stefano Boriani. Aneurysmal bone cyst of the spine treated by concentrated bone marrow: clinical cases and review of the literature. *Eur Spine J*. 2017 Feb 6. doi: 10.1007/s00586-017-4978-x. [Epub ahead of print] IF= 2,634
111. F. Salamanna, M. Sartori, G. Barbanti Brodano, C. Griffoni, L. Martini, S. Boriani, and M. Fini. Mesenchymal Stem Cells for the Treatment of Spinal Arthrodesis: From Preclinical Research to Clinical Scenario. *Stem Cells International*, Volume 2017 (2017), Article ID 3537094, 27 pages. <https://doi.org/10.1155/2017/3537094>. IF= 3,989
112. Barbanti Brodano G., Salamanna F., Fini M. Il Rizzoli studia le supercellule per curare il mal di schiena. *La Repubblica*, 26-11-2017.
113. Barbanti Bròdano G, Griffoni C, Nataloni A, Manfrini M, Giavaresi G, Bandiera S, Gasbarrini A, Terzi S, Ghermandi R, Tedesco G, Girolami M, Tognon M, Fini M. Biomaterials as bone graft substitutes for spine surgery: from preclinical results to clinical study. *J Biol Regul Homeost Agents*. 2017 Oct-Dec;31(4 suppl 1):167-181. IF= 1,397
114. Salamanna F, Cepollaro S, Contartese D, Giavaresi G, Brodano GB, Griffoni C, Gasbarrini A, Fini M. Biological Rationale for the Use of Vertebral Whole Bone Marrow in Spinal Surgery. *Spine (Phila Pa 1976)*. 2018 Oct 15;43(20):1401-1410. IF= 2,792
115. Girolami M, Boriani S, Bandiera S, Barbanti-Bròdano G, Ghermandi R, Terzi S, Tedesco G, Evangelisti G, Pipola V, Gasbarrini A. Biomimetic 3D-printed custom-made prosthesis for anterior column reconstruction in the thoracolumbar spine: a tailored option following en bloc resection for spinal tumors : Preliminary results on a case-series of 13 patients. *Eur Spine J*. 2018 Dec;27(12):3073-3083. IF= 2,634
116. Salamanna F, Contartese D, Nicoli Aldini N, Barbanti Brodano G, Griffoni C, Gasbarrini A, Fini M. Bone marrow aspirate clot: A technical complication or a smart approach for musculoskeletal tissue regeneration? *J Cell Physiol*. 2018 Apr;233(4):2723-2732. IF= 3,923
117. Pipola V, Terzi S, Tedesco G, Bandiera S, Bròdano GB, Ghermandi R, Evangelisti G, Girolami M, Gasbarrini A. Metastatic epidural spinal cord compression: does timing of surgery influence the chance of neurological recovery? An observational case-control study. *Support Care Cancer*. 2018 Mar 30. doi: 10.1007/s00520-018-4176-3. [Epub ahead of print] IF= 2,676
118. Palanca M, Barbanti Brodano G, Cristofolini L. The Size of Simulated Lytic Metastases Affects the Strain Distribution on the Anterior Surface of the Vertebra. *J Biomech Eng*. 2018 Jun 25. doi: 10.1115/1.4040587. IF= 1,916

119. Iaquina MR, Mazzoni E, Manfrini M, D'Agostino A, Trevisiol L, Nocini R, Trombelli L, Barbanti-Brodano G, Martini F, Tognon M. Innovative biomaterials for bone regrowth. *Int. J. Mol. Sci.* **2019**, 20, 618; doi:10.3390/ijms20030618. IF= 4,183
120. Pipola V, Gasbarrini A, Girolami M, Griffoni C, Zaccaro R, Barbanti Brodano G. Isthmic spondylolisthesis and interspinous process device. Hype, hope, or contraindication? *Eur Rev Med Pharmacol Sci.* 2019 Mar;23(6):2340-2344. IF= 2,387
121. Salamanna F, Giavaresi G, Contartese D, Bigi A, Boanini E, Parrilli A, Lolli R, Gasbarrini A, Barbanti Brodano G, Fini M. Effect of strontium substituted β -TCP associated to mesenchymal stem cells from bone marrow and adipose tissue on spinal fusion in healthy and ovariectomized rat. *J Cell Physiol* 2019; Apr 4. doi: 10.1002/jcp.28601. IF= 3,923
122. Pipola V, Boriani S, Bandiera S, Righi A, Barbanti Brodano G, Terzi S, Ghermandi R, Tedesco G, Evangelisti G, Girolami M, Gasbarrini A. Paraganglioma of the spine: A twenty-years clinical experience of a high volume tumor center. *J Clin Neurosci.* 2019 Aug;66:7-11. IF= 1,593
123. Evangelisti G, Fiore MR, Bandiera S, Barbanti Brodano G, Terzi S, Girolami M, Pipola V, Righi A, Nanni C, Fanti S, Ghermandi R, Molinelli S, Orecchia R, Boriani S, Gasbarrini A. Carbon ions therapy as single treatment in chordoma of the sacrum. Histologic and metabolic outcome studies. *Eur Rev Med Pharmacol Sci.* 2019 May;23(9):4002-4009. IF= 2,387
124. Abdelrazik H, Giordano E, Barbanti Brodano G, Griffoni C, De Falco E, Pelagalli A. (2019) Substantial Overview on Mesenchymal Stem Cell Biological and Physical Properties as an Opportunity in Translational Medicine. *Int. J. Mol. Sci.* 20, 5386; doi:10.3390/ijms20215386. IF= 4,183
125. Barbanti-Brodano G, Griffoni C, Halme J, Tedesco G, Terzi S, Bandiera S, Ghermandi R, Evangelisti G, Girolami M, Pipola V, Gasbarrini A, Falavigna A. Spinal surgery complications: an unsolved problem-Is the World Health Organization Safety Surgical Checklist an useful tool to reduce them? *Eur Spine J.* 2019 Nov 6. doi: 10.1007/s00586-019-06203-x. IF= 2,634
126. Girolami M, Boriani S, Ghermandi R, Bandiera S, Barbanti-Brodano G, Terzi S, Tedesco G, Evangelisti G, Pipola V, Ricci A, Cecchinato R, Gasbarrini A. (2019) Function Preservation or Oncological Appropriateness in Spinal Bone Tumors? A Case Series of Segmental Resection of the Spinal Canal Content (Spinal Amputation). *Spine (Phila Pa 1976).* 2019 Dec 5.
127. Mazza E, Marcia S, Mondaini F, Piras E, Giordan N, Torri T, Barbanti Brodano G, Parodi F. (2020) Efficacy and safety of a novel hydrogel (HYADD4-G) in degenerative disc disease patients: a multicentric open label study. *Eur Rev Med Pharmacol Sci* 24: 2692-2703. IF= 2,387
128. Salamanna F, Contartese D, Giavaresi G, Sicuro L, Barbanti Brodano G, Gasbarrini A, Fini M. (2020) A rationale for the use of clotted vertebral bone marrow to aid tissue regeneration following spinal surgery. *Scientific Reports* May 5: 10 (1): 4115.
129. Vanino E, Tadolini M, Evangelisti G, Zamparini E, Attard L, Scolzi K, Terzi S, Barbanti Brodano G, Girolami M, Pipola V, Gasbarrini A, Viale P. (2020) Spinal tuberculosis: proposed spinal infection multidisciplinary management project (SIMP) flow chart revision. *Eur Rev Med Pharmacol Sci* 24: 1428-1434. IF= 2,387
130. Griffoni C, Lukassen JNM, Babbi L, Girolami M, Lamartina C, Cecchinato R, Gasbarrini A, Barbanti Brodano G. Percutaneous vertebroplasty and balloon kyphoplasty in the treatment of osteoporotic vertebral fractures: a prospective randomized comparison. *Eur Spine J.* 2020 May 2. doi: 10.1007/s00586-020-06434-3.
131. Falavigna A, Dedea J, Guioy A, Barbanti Brodano G. Perception of complications by spine surgeons. *SNI: Spine* 2020; 11: 88.

BOOKS CHAPTER

Year	Description
2000	Rodolfo Capanna, Stefano Boriani, Alessandro Gasbarrini, Stefano Bandiera, Giovanni Barbanti Brodano, Stefania Paderni, Silvia Terzi "Surgical Techniques for the Treatment of Bone Metastases of the Spine (pages 201–214)" In "Textbook of bone metastases" Wiley 2006
2018	Riccardo Ghermandi, Gisberto Evangelisti, Marco Girolami, Valerio Pipola, Stefano Bandiera, Giovanni Barbanti Brodano, Cristiana Griffoni, Giuseppe Tedesco, Silvia Terzi, Alessandro Gasbarrini "Management of Metastases to the Spine and Sacrum" in <i>Management of Bone Metastases</i> , pagg. 73-92, ed. Springer.

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Firma

