



Marco Manzetti

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ABOUT ME

Marco Manzetti is currently a resident physician in Orthopedics and Traumatology at the IRCCS Istituto Ortopedico Rizzoli, specializing in spine surgery and basic orthopedic sciences.

After graduating with honors in Medicine from the University of Pisa in July 2018, Dr. Manzetti pursued advanced training and research in orthopedic surgery. His dedication led him to participate in the Sagittal Balance and Spinal Deformity Fellowship at CHU de Bordeaux, where he worked as a visiting fellow in the Department of Spinal Surgery 2, under the mentorship of Prof. Jean Charles Le-Huec.

Prior to starting his residency at the University of Bologna in July 2019, Dr. Manzetti gained valuable experience as a continuity of care physician for AUSL Toscana Nord-Ovest in mid-2019. More recently, from November 2023 to October 2024, he served in a similar capacity at the Porretta Terme district of AUSL Bologna.

His commitment to spine surgery was further strengthened by international fellowships. From June to July 2024, he served as an AO Spine Fellow at the Schulthess Klinik in Zurich, under the guidance of Prof. Markus Loibl, followed by an additional fellowship at the Universitätsspital Zurich during the first two weeks of August 2024.

Currently, Dr. Manzetti continues his residency at the I Orthopedics and Traumatologic Clinic, directed by Professor Cesare Faldini, where he is actively involved in patient care, surgery, and clinical research in orthopedics. Alongside his clinical work, he is pursuing a PhD in Biomedical and Neuromotor Sciences at the DIBINEM department of the University of Bologna.

In addition to his clinical and research duties, Dr. Manzetti is also engaged in teaching Orthopedics and Traumatology to students at the University of Bologna.

WORK EXPERIENCE

Part - time administrative assistant

Università di Pisa, Dipartimento di Ricerca Traslationale e delle Nuove Tecnologie in Med. e Chir. [02/28/2017 - 02/28/2018]

Address: 10, Via Savi, 56126 Pisa (Italy) | **Website:** www.med.unipi.it | **Business or sector:** Administrative and support service activities

- Creating and editing documents
- Creation of word, power point and excel files
- Administrative work

Continuity Care Doctor

Azienda USL Toscana Nord Ovest [06/30/2019 - 08/31/2019]

Address: 530, Via Antonio Fratti, 55049 Viareggio (Italy) | **Website:** <https://www.uslnordovest.toscana.it/> | **Business or sector:** Human health and social work activities

Resident Doctor in Orthopaedics & Traumatology

IRCCS - Istituto Ortopedico Rizzoli [10/31/2019 – Current]

Address: 1, Via Giulio Cesare Pupilli, 40136 Bologna (Italy) | Website: <http://www.ior.it/> | Name of unit or department: Resident Doctor in Orthopaedics & Traumatology - Business or sector: Human health and social work activities

PhD Student

Alma Mater Studiorum - University of Bologna [11/2023 – Current]

City: Bologna | Country: Italy

EDUCATION AND TRAINING

Higher Secondary Education Diploma (grade 84/100)

Liceo Scientifico Barsanti e Matteucci [08/2006 – 06/2011]

Address: 5151, Via IV Novembre, 55049 Viareggio (Italy) | Website: www.liceobarsanti.matteucci.it | Level in EQF: EQF level 4

Master's Degree in Medicine & Surgery

Università di Pisa [08/2012 – 06/2018]

Address: 10, Via Savi, 56126 Pisa (Italy) | Website: www.med.unipi.it | Field(s) of study: Health and welfare:
• Medicine | Final grade: 110\110 cum laude | Level in EQF: EQF level 7

Master's thesis: Potential of augmented reality in the development of a hybrid simulator for hip prosthetic surgery: an EndoCas project;

Supervisor: Prof. Paolo D. Parchi

Final grade: 110/110 cum laude

Student Representative

"Listamina: diretta, pratica, libera" [10/31/2017 – 10/31/2019]

City: Pisa | Country: Italy | Website: <https://listaminaunipi.wordpress.com/>

Medical Licence

Università di Pisa [02/18/2019 – Current]

Address: 10, Via Savi, 56126 Pisa (Italy) | Website: www.med.unipi.it | Level in EQF: EQF level 7

Visiting Fellow, Sagittal Balance and Spine Deformity Fellowship at Pr. JC LeHuec CHU Bordeaux

Centre Hospitalier Universitaire [08/31/2018 – 10/31/2018]

Address: Place Amélie Raba Léon, 33300 Bordeaux (France) | Website: <https://www.chu-bordeaux.fr/>

Sagittal balance and spinal deformity fellowship

- Clinic: 50 patients/week seen on the Professor clinic, clinical examination of patients
- Operatory room: 3 days/week, assisting or attending under Pr. LeHuec supervision
- Clinical case analysis for the ward meeting presentation every week
- Knowledge: understanding of sagittal balance analysis, worked on X Ray analysis for normative values in a research study

Resident Doctor in Orthopaedics & Traumatology

Alma Mater Studiorum - Università di Bologna [10/2019 – Current]

Address: 38, Via Zamboni, 40126 Bologna (Italy) | Website: <https://www.unibo.it/it> | Level in EQF: EQF level 8

PhD Student

Alma Mater Studiorum - University of Bologna [11/2023 – Current]

City: Bologna | Country: Italy | Website: <https://www.unibo.it/sitoweb/marco.manzetti2>

Guest Fellow - AO Spine Short Term Fellowship at Wirbelsäulenchirurgie Schulthess Klinik, Prof. Markus Loibl

Schulthess Klinik [06/03/2024 – 07/26/2024]

City: Zurich | Country: Switzerland | Website: <https://www.schulthess-klinik.ch/de>

Guest Fellow - at Klinik für Traumatologie, USZ Zurich Prof. Hans-Christoph Pape

Universitätsspital Zürich [07/29/2024 – 08/09/2024]

City: Zurich | Country: Switzerland | Website: <https://www.usz.ch/>

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 READING C1 WRITING B1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

French

LISTENING B1 READING B1 WRITING A2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Spanish

LISTENING A2 READING B1 WRITING A1

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

[2021]

Power-assisted pedicle screws placement: Is it as safe and as effective as manual technique? Narrative review of the literature and our technique Pedicle screws are the gold standard in spine surgery, allowing a solid tricolunar fixation which is unmatched by hooks and wires. The freehand technique is the most widely adopted for pedicle screws placing. While freehand technique has been classically performed with manual tools, there has been a recent trend toward the use of power tools. The aim of this review is to summarize and expose potential risks and advantages of power pedicle screws placing.

Link: <https://link.springer.com/article/10.1007/s12306-021-00714-x>

[2021]

Does surgery for Scheuermann kyphosis influence sagittal spinopelvic parameters? The purpose of the present study was to analyze changes in sagittal spinopelvic parameters (SSPs) after surgical treatment of Scheuermann's Kyphosis.

Link: <https://www.giot.it/article/il-trattamento-chirurgico-della-sindrome-di-scheuermann-influisce-sui-parametri-spino-pelvici/>

[2021]

Surgical treatment of scoliosis in Ullrich Congenital Muscular Dystrophy: a case series of 3 patients Scoliosis in Ullrich Congenital Muscular Dystrophy (UCMD) is very common, with a reported incidence of more than 50%, and it is rapidly progressive. There are no previous studies which specifically focus on scoliosis surgery in UCMD patients.

Link: https://www.jstage.jst.go.jp/article/irdr/advpub/0/advpub_2020.03162/_article/-char/en

[2021]

Resumption of sport after spinal fusion for adolescent idiopathic scoliosis: a review of the current literature

Adolescent idiopathic scoliosis (AIS) is a frequent disorder. Since patients with AIS are typically as active as age-matched controls and post-operative reduction in physical activity has detrimental effects on their well-being, return to sport (RTS) is an important perioperative concern. Aim of the present study is to review the literature concerning return to sport after spinal fusion for AIS.

Link: <https://link.springer.com/article/10.1007/s43390-021-00330-6#citeas>

[2022]

Return to sport after posterior spinal fusion for adolescent idiopathic scoliosis: what variables actually have an influence? a retrospective study

A cohort of athletically active patients who underwent surgery for adolescent idiopathic scoliosis (AIS), and to determine which clinical, surgical and anthropometric variables influenced their return to sport after surgery.

Spine Deformity

Link: <https://link.springer.com/article/10.1007/s43390-022-00535-3>

[2022]

Epigenetic and genetic factors related to curve progression in adolescent idiopathic scoliosis: a systematic review of the current literature

Adolescent idiopathic scoliosis (AIS) is a progressive deformity of the spine. Scoliotic curves progress until skeletal maturity leading, in rare cases, to a severe deformity. While the Cobb angle is a straightforward tool in initial curve magnitude measurement, assessing the risk of curve progression at the time of diagnosis may be more challenging. Epigenetic and genetic markers are potential prognostic tools to predict curve progression. The aim of this study is to review the available literature regarding the epigenetic and genetic factors associated with the risk of AIS curve progression.

International Journal of Molecular Sciences

Link: <https://www.mdpi.com/1422-0067/23/11/5914>

[2022]

Transient L5 nerve root palsy caused by subfascial drain following lumbar surgery. Case report and Literature review

We describe the case of a 45-year-old woman who developed a transient L5 deficit after a posterior L4-L5 interbody fusion. A perfusion computed tomography scan ruled out all described causes of postoperative deficit and showed compression of the right L5 root by the subfascial drain. The deficit spontaneously resolved.

JBJS Case Connector

Link: [10.2106/JBJS.CC.22.00006](https://doi.org/10.2106/JBJS.CC.22.00006)

[2022]

Sacroiliac joint degeneration and pain after spinal arthrodesis: a systematic review The present study aims to review the available literature concerning sacroiliac joint (SIJ) pain and degeneration after lumbosacral fixation to identify the prevalence and potential risk factors.

Clinical Spine Surgery Journal

Link: https://journals.lww.com/jspinaldisorders/Abstract/9900/Sacroiliac_Joint_Degeneration_and_Pain_After.32.aspx

[2022]

Is sarcopenia a risk factor for post-operative surgical site infection after posterior lumbar spinal fusion? This retrospective observational study aimed to evaluate the impact of sarcopenia on surgical site infection (SSI) risk in patients who undergo posterior lumbar fusion.

International Journal of Spine Surgery

Link: <https://doi.org/10.14444/8302>

[2022]

Minimally invasive surgery using posterior-only Pedicle screw fixation in treatment of Adolescent Idiopathic Scoliosis: A Systematic Review and Meta-Analysis Minimally invasive surgery (MIS) techniques for posterior spine pedicle-screw fusion (PSF) may reduce the AIS surgery invasiveness, although they require a certain degree of patient selection based on the severity of the curve. The aim of this article is to systematically review the Literature to determine efficacy and safety of MIS-PSF in AIS correction, and to compare its outcomes with open-PSF.

Journal of Clinical Neuroscience

Link: <https://doi.org/10.1016/j.jocn.2022.03.019>

[2022]

5.5mm Cobalt-Chrome vs 6mm Titanium Alloy rods in surgical treatment of Lenke 1 Adolescent Idiopathic Scoliosis with high density pedicle screws and Direct Vertebral Rotation on differently shaped rods: a Retrospective Comparative Cohort Study The gold standard of surgical treatment of Adolescent Idiopathic Scoliosis (AIS) consist of a posterior approach requiring complex 3-dimensional correction with multisegmental pedicle screws attached to two contoured rods. The substantial corrective forces and the ability of the rod to withstand these forces rely on its biomechanical properties. The aim of this study is to compare outcomes of 5.5mm Cobalt-Chrome (CoCr) and 6mm Titanium alloy (TiAl) rods in surgical correction in Lenke 1 AIS patients.

International Journal of Spine Surgery

Link: <https://pubmed.ncbi.nlm.nih.gov/36220777/>

[2021]

Simultaneous Selective Thoracic Fusion of Lenke-1C Scoliosis and Reduction of Symptomatic Spondylolisthesis: A Case Report The combined treatment of unrelated Lenke-1C curves and spondylolisthesis represents a challenge: The two arthrodesis areas must achieve corrections while preserving mobility as much as possible. We reported a case of 20-year-old girl with Lenke-1C scoliosis and Meyerding grade-2 symptomatic L5-S1 isthmic spondylolisthesis.

Link: <https://www.jmisst.org/journal/view.php?doi=10.21182/jmisst.2020.00241>

[2022]

Freehand power-assisted pedicle screw placement in scoliotic patients: results on 552 consecutive pedicle screws Pedicle screws is the current gold standard in spine surgery, achieving a solid tricolunar fixation which is unreachable by wires and hooks. The freehand technique is the most widely adopted for pedicle screws placing. While freehand technique has been classically performed with manual tools, there has been a recent trend toward the use of power tools. However, placing a pedicle screw remains a technically demanding procedure with significant risk of complications. The aim of this article is to retrospectively evaluate safety and accuracy of free-hand power-assisted pedicle screw placement in a cohort of patients who underwent correction and fusion surgery for scoliosis (both idiopathic and non-idiopathic) in our department.

MUSCULOSKELETAL SURGERY

Link: <https://doi.org/10.1007/s12306-022-00754-x>

[2022]

Total knee replacements using rotating hinge implants in polio patients: clinical and functional outcomes Litt

le evidences are available in the literature concerning the outcomes of total knee replacement (TKR) in poliomyelitis patients with severe knee deformities or degeneration. Encouraging results have been reported concerning the use of constrained implants, i.e., rotating hinge knee prosthesis (RHK), compared to less constrained ones. The purpose of this paper is to report our experience with rotating hinge total knee replacement, using only RHK prosthesis, to determine functional results, complications, and survival of TKR in poliomyelitis patients.

MUSCULOSKELETAL SURGERY

Link: <https://doi.org/10.1007/s12306-022-00755-w>

[2022]

Allogenic Bone grafts and postoperative surgical site infection: are positive intraoperative swab cultures predictive for a higher infectious risk?

In spine surgery, allogenic bone grafts are often required to ensure bone fusion, but the main concern regarding their use is the infection risk: therefore, an intraoperative swab on their surface for culture test is performed. The cost-effectiveness of these swabs and their influence on the patients' postoperative course have often been questioned. The aim of this study is to determine whether positive spine allograft culture results are predictive of an increased risk of surgical site infection and whether they influence the surgeon's treatment choices.

Cell and Tissue Banking

Link: <https://doi.org/10.1007/s10561-022-10061-1>

[2022]

Management of patella maltracking after total knee arthroplasty: a systematic review

Patella maltracking is among the most frequent causes of poor outcomes and early failure after total knee arthroplasty (TKA), with an incidence that ranges from 1 to 20%. Even if there is agreement between authors regarding the preoperative and intraoperative management of patella maltracking in TKA, less clear are postoperative conducts. The purpose of this systematic review is to summarize and compare surgical techniques used to treat patella maltracking after TKA.

MUSCULOSKELETAL SURGERY

Link: <https://link.springer.com/article/10.1007/s12306-022-00764-9>

[2022]

High-grade dysplastic spondylolisthesis: surgical technique and case series The aim of the present study is to evaluate the results of our all posterior-one stage surgical technique for the reduction and fusion of high-grade high-dysplastic spondylolisthesis.

MUSCULOSKELETAL SURGERY

Link: <https://link.springer.com/article/10.1007/s12306-022-00764-9>

[2022]

Osteopenia and Sarcopenia as Potential Risk Factors for Surgical Site Infection after Posterior Lumbar Fusion: A Retrospective Study

Surgical site infection (SSI) is a feared complication in spinal surgery, that leads to lower outcomes and increased healthcare costs. Among its risk factors, sarcopenia and osteopenia have recently attracted particular interest. The purpose of this article is to evaluate the influence of sarcopenia and osteopenia on the postoperative infection rate in patients treated with posterior fusion for degenerative diseases of the lumbar spine.

Microorganisms

Link: <https://www.mdpi.com/2076-2607/10/10/1905>

[2022]

Multilevel non-contiguous thoracic pedicle subtraction osteotomy for fixed rounded hyperkyphotic deformity of the thoraco-lumbar junction with anterior bony fusion: technical note

Fixed severe hyperkyphotic deformities spread over more than five vertebral levels represent a therapeutic challenge, especially when the

deformity apex is located at the thoraco-lumbar junction, thus requiring a huge amount of correction. The aim of this article is to describe an innovative all-posterior corrective technique based on multilevel non-contiguous thoracic pedicle subtraction osteotomy (PSO).

Journal of Orthopaedics and Traumatology

Link: <https://jorthotraumatol.springeropen.com/articles/10.1186/s10195-022-00665-4#citeas>

[2022]
Accuracy of Patient-Specific 3D-Printed Guides for Pedicle Screw Insertion in Spine Revision Surgery: Results of a Retrospective Study This retrospective study was performed to evaluate the safety and efficacy of patient-specific 3D-printed guides (MySpine® Medacta, Switzerland) for pedicle screw placement in spine revision surgery.

Surgical Technology International

Link: <https://pubmed.ncbi.nlm.nih.gov/36283694/>

[2022]
Surgical treatment of severe adolescent idiopathic scoliosis through one-stage posterior-only approach: A systematic review and meta-analysis The aim of this meta-analysis was to analyze the results of one-stage all-posterior spinal fusion for severe adolescent idiopathic scoliosis (AIS).

Journal of Craniovertebral Junction & Spine

Link: [10.4103/jcvjs.jcvjs_80_22](https://doi.org/10.4103/jcvjs.jcvjs_80_22)

[2022]
The role of posterior condylar offset ratio on clinical and functional outcome of posterior stabilized total knee arthroplasty: a retrospective cohort study Postoperative Range of Motion (ROM) is an important measurement of the success of a Total Knee Arthroplasty (TKA). Much enthusiasm has been recently directed toward the posterior femoral condylar offset (PFCO), with some authors reporting increasing postoperative knee flexion when increasing PFCO. The aim of this study is to retrospectively determine the effect of the PFCO on the clinical and functional outcome of a cohort of patients who underwent a Posterior Stabilized (PS) TKA.

European Journal of Orthopaedic Surgery & Traumatology

Link: <https://doi.org/10.1007/s00590-022-03459-w>

[2023]
Epigenetic Factors Related to Low Back Pain: A Systematic Review of the Current Literature Low back pain (LBP) is one of the most common causes of pain and disability. At present, treatment and interventions for acute and chronic low back pain often fail to provide sufficient levels of pain relief, and full functional restoration can be challenging. Considering the significant socio-economic burden and risk-to-benefit ratio of medical and surgical intervention in low back pain patients, the identification of reliable biomarkers such as epigenetic factors associated with low back pain could be useful in clinical practice. The aim of this study was to review the available literature regarding the epigenetic factors associated with low back pain.

International Journal of Molecular Sciences

Link: <https://doi.org/10.3390/ijms24031854>

[2023]
Mechanobiology of the Human Intervertebral Disc: Systematic Review of the Literature and Future Perspectives Low back pain is an extremely common condition with severe consequences. Among its potential specific causes, degenerative disc disease (DDD) is one of the most frequently observed. Mechanobiology is an emerging science studying the interplay between mechanical stimuli and the biological behavior of cells and tissues. The aim of the presented study is to review, with a systematic approach, the existing literature regarding the mechanobiology of the human intervertebral disc (IVD), define the main pathways involved in DDD and identify novel potential therapeutic targets.

Link: <https://doi.org/10.3390/ijms24032728>

[2023]

Complications after Posterior Lumbar Fusion for Degenerative Disc Disease: Sarcopenia and Osteopenia as Independent Risk Factors for Infection and Proximal Junctional Disease Proximal Junctional Disease (PJD) and Surgical Site Infection (SSI) are among the most common complications following spine surgery. Their risk factors are not fully understood. Among them, sarcopenia and osteopenia have recently been attracting interest. The aim of this study is to evaluate their influence on mechanical or infective complications after lumbar spine fusion.

Journal of Clinical Medicine

Link: <https://doi.org/10.3390/jcm12041387>

[2023]

Risk factors for postoperative coronal imbalance after surgical correction of adult spinal deformities: a systematic review with pooled analysis The aim of this study was to identify preoperative risk factors for postoperative coronal imbalance (CIB) in patients undergoing surgical correction for adult spinal deformity (ASD).

Journal of Neurosurgery: Spine

Link: <https://doi.org/10.3171/2023.1.SPINE22669>

[2023]

Sharing Circulating Micro-RNAs between Osteoporosis and Sarcopenia: A Systematic Review Osteosarcopenia, a combination of osteopenia/osteoporosis and sarcopenia, is a common condition among older adults. While numerous studies and meta-analyses have been conducted on osteoporosis biomarkers, biomarker utility in osteosarcopenia still lacks evidence. Here, we carried out a systematic review to explore and analyze the potential clinical of circulating microRNAs (miRs) shared between osteoporosis/osteopenia and sarcopenia.

Life

Link: <https://www.mdpi.com/2075-1729/13/3/602>

[2023]

One stage correction via the Hi-PoAD technique for the management of severe, stiff, adolescent idiopathic scoliosis curves > 90° The aim of the present study is to assess the efficacy and safety of Hi-PoAD technique in patients with a major thoracic curve > 90°, < 25% of flexibility and deformity spread over more than five vertebral levels.

Spine Deformity

Link: [10.1007/s43390-023-00663-4](https://doi.org/10.1007/s43390-023-00663-4)

[2023]

Incidental dural tears do not affect the overall patients' reported outcome of spine surgery at long-term follow-up: results of a systematic review To conduct a systematic review of the literature in order to establish if there is an overall adverse effect of accidental durotomy on the long-term patients' reported outcome after elective spine surgery.

MUSCULOSKELETAL SURGERY

Link: <https://doi.org/10.1007/s12306-023-00777-y>

[2023]

Sarcopenia and osteopenia are independent risk factors for proximal junctional disease after posterior lumbar fusion: Results of a retrospective study Since a better understanding of modifiable risk factors for proximal junctional disease (PJD) may lead to improved postoperative outcomes and less need of revision surgery,

the aim of the present study is to determine whether sarcopenia and osteopenia are independent risk factors for PJD in patients undergoing lumbar fusion.

Journal of Craniovertebral Junction & Spine

Link: [10.4103/jcvjs.jcvjs_140_22](https://doi.org/10.4103/jcvjs.jcvjs_140_22)

[2023]

Independent Risk Factors of Postoperative Coronal Imbalance after Adult Spinal Deformity Surgery The aim of the present study is to elucidate preoperative risk factors for inadequate correction of coronal imbalance and/or creation of new postoperative coronal imbalance (iatrogenic CIB) in patients who undergo surgery for Adult Spinal Deformity (ASD).

Journal of Clinical Medicine

Link: <https://doi.org/10.3390/jcm12103559>

[2023]

Osteoid Osteoma of the Hand: Surgical Treatment versus CT-Guided Percutaneous Radiofrequency Thermal Ablation Osteoid osteoma (OO) is one of the most common benign bone tumors. This type of osteogenic tumor is generally characterized by a well-defined lytic area with a vascularized central nidus surrounded by sclerosis and bone thickening. The wrist and hand bones are infrequent sites for osteoid osteoma: only 10% of the cases arise in these areas. Standard treatments are surgical excision and radio-frequency ablation (RFA), both with advantages and disadvantages. This study aimed to compare the two techniques to prove if RFA could be a potential alternative to surgery in the treatment of OO of the hand.

Life

Link: <https://doi.org/10.3390/life13061351>

[2023]

Diagnosis and treatment of acute inflammatory sacroiliitis in pregnant or post-partum women: a systematic review of the current literature The aim of the present study is to systematically review the current literature about diagnosis and treatment of acute inflammatory sacroiliitis in pregnant or post-partum women.

MUSCULOSKELETAL SURGERY

Link: <https://doi.org/10.1007/s12306-023-00786-x>

[2023]

Retrograde drilling for ankle joint osteochondral lesions: a systematic review Extensive literature exists about the treatment of ankle osteochondral lesions, but there is no specific review of retrograde drilling, despite its common application. Indications for retrograde drilling are still few and are far from clear, and some evolutions of the technique have recently occurred. The aim of this review is to provide an update on actual applications and techniques of retrograde drilling for ankle osteochondral lesions.

Journal of Orthopaedics and Traumatology

Link: <https://doi.org/10.1186/s10195-023-00716->

[2023]

A new comprehensive MRI classification and grading system for lumbosacral central and lateral stenosis: clinical application and comparison with previous systems

The purpose of our study was to provide a novel schematized and comprehensive classification of causes and severity grading system for lumbosacral stenosis.

La Radiologia Medica

Link: <https://doi.org/10.1007/s11547-023-01741-3>

[2023]

Adipose-derived stem cells applied to ankle pathologies: a systematic review The purpose of this systematic review was to analyze the current use of adipose-derived mesenchymal stem cells (ADMSCs) and present the available evidence on their therapeutic potential in the treatment of ankle orthopedic issues, evaluating the applications and results.

MUSCULOSKELETAL SURGERY

Link: <https://doi.org/10.1007/s12306-023-00798-7>

[2023]

Is there a skeletal age index that can predict accurate curve progression in adolescent idiopathic scoliosis? A systematic review. The diagnosis of adolescent idiopathic scoliosis requires clinical and radiographic evaluation; the management options vary depending on the severity of the curve and potential for progression. Identifying predictors of scoliosis progression is crucial to avoid incorrect management; clinical and radiographic factors have been studied as potential predictors. The present study aims to review the literature on radiological indexes for the peak height velocity or curve acceleration phase to help clinicians manage treatment of patients with adolescent idiopathic scoliosis.

Pediatric Radiology

Link: <https://doi.org/10.1007/s00247-023-05834-z>

[2024]

Ponte Osteotomies in the Surgical Treatment of Adolescent Idiopathic Scoliosis: A Systematic Review of the Literature and Meta-Analysis of Comparative Studies The purpose of the present paper is to assess if Ponte osteotomies (POs) allow for a better correction in adolescent idiopathic scoliosis (AIS) surgery and to investigate their safety profile.

Children

Link: <https://doi.org/10.3390/children11010092>

[2024]

Pedicle Dysplasia in Proximal Thoracic Adolescent Idiopathic Scoliosis Curves: What are We Missing and What are its Possible Surgical Implications? An Observational Retrospective Study on 104 Patients To assess if pedicle dysplasia is present in proximal thoracic (PT), both structural and nonstructural, compared to main thoracic (MT) curves; and to assess if it is predictive of radiographic outcomes at minimum 2 years of follow-up.

Global Spine Journal

Link: [10.1177/21925682241230964](https://doi.org/10.1177/21925682241230964)

[2024]

Frailty Influence on Postoperative Surgical Site Infections After Surgery for Degenerative Spine Disease and Adult Spine Deformity. Can a Frailty Index be a Valuable Summary Risk Indicator? A Systematic Review and Metanalysis of the Current Literature The aim of this metanalysis is to evaluate the influence of frailty on postoperative SSI in this cohort and provide hints on which index can predict the risk of SSI.

Global Spine Journal

Link: <https://doi.org/10.1177/21925682241235605>

[2024]

Similar Short-Term Outcomes of Adolescent Idiopathic Scoliosis Surgery with or without Drainage: A Systematic Review of the Literature and Meta-Analysis This study aimed to assess the effect of closed suction drainage on short-term post-operative outcomes in AIS surgery.

Journal of Personalized Medicine

Link: <https://doi.org/10.3390/jpm14040339>

[2024]

Restoration of Spinopelvic Alignment After Reduction of High-grade Spondylolisthesis: Myth or Reality? A Systematic Review of the literature and Meta-analysis The aim of the presented study is to assess whether the reduction of high-grade spondylolisthesis (HGS) through the correction of lumbosacral kyphosis leads to a decrease in the sagittal spinopelvic compensatory mechanisms.

Clinical Spine Surgery Journal

Link: [10.1097/BSD.0000000000001593](https://doi.org/10.1097/BSD.0000000000001593)

[2024]

Comparable rates of lumbar disc degeneration at long-term following adolescent idiopathic scoliosis spinal fusion extended to L3 or L4: systematic review and meta-analysis The aim of the present study is to assess if the spinal fusion with LIV selection of L3 or L4 in AIS patients has a clinical or radiological impact in terms of degenerative disc disease (DDD) in distal unfused segments at long-term follow-up.

Spine Deformity

Link: <https://doi.org/10.1007/s43390-024-00849-4>

[2024]

Unveiling Timetable for Physical Therapy after Single-Level Lumbar Surgery for Degenerative Disc Disease: Insights from a Systematic Review and Meta-Analysis The aim of this study is to review the available literature regarding the optimal timing of physical therapy initiation and the outcomes obtained.

Journal of Clinical Medicine

Link: <https://doi.org/10.3390/jcm13092553>

[2024]

Injective Treatments for Sacroiliac Joint Pain: A Systematic Review and Meta-analysis. Aim of this study was to quantify the safety and effectiveness of the available injective strategies to address SIJ pain.

Indian Journal of Orthopaedics

Link: <https://doi.org/10.1007/s43465-024-01164-w>

[2024]

Identification of Epigenetic Biomarkers of Adolescent Idiopathic Scoliosis Progression: A Workflow to Assess Local Gene Expression In this study, we propose a methodological approach for the identification of epigenetic markers of AIS progression through an original workflow based on the preliminary characterization of local expression of candidate genes in tissues directly involved in the pathology.

International Journal of Molecular Sciences

Link: <https://doi.org/10.3390/ijms25105329>

[2024]

A Pilot Study on Circulating, Cellular, and Tissue Biomarkers in Osteosarcopenic Patients This study aimed to explore circulating, cellular, and tissue biomarkers in osteosarcopenic (OS) patients comparing them with healthy, osteopenic (OP), and sarcopenic (SP) patients. In detail, we analyzed and evaluated routine blood test parameters, peripheral blood mononuclear cells (PBMCs), spontaneous osteoclastogenesis (the activation of osteoclasts without specific external stimulation or inducement, a risk factor in pathological conditions characterized by altered BMD), bone and muscle micro-architecture, and physiological and pathological expression of blood serum and tissue markers including those for bone, muscle, and aging.

International Journal of Molecular Sciences

Link: <https://doi.org/10.3390/ijms25115879>

[2024]

To cast or not to cast? Postoperative care of ankle fractures: a meta-analysis of randomized controlled trials.

The aim of this meta-analysis is to compare the results of EM and/or EWB to traditional postoperative protocols (cast and/or NWB) after open reduction and internal fixation (ORIF) for unstable ankle fractures.

MUSCULOSKELETAL SURGERY

Link: <https://doi.org/10.1007/s12306-024-00832-2>

[2024]

Image-Guided Minimally Invasive Treatment Options for Degenerative Lumbar Spine Disease: A Practical Overview of Current Possibilities

This literature review focuses on the different minimally invasive percutaneous treatments currently available, underlining the central role of radiologists having the capability to use high-end imaging technology for diagnosis and subsequent treatment, allowing a global approach, reducing unnecessary surgeries and prolonged pain-reliever drug intake with their consequent related complications, improving patients' quality of life, and reducing the economic burden.

Diagnostics

Link: <https://doi.org/10.3390/diagnostics14111147>

[2024]

Efficacy of using autologous cells with graft substitutes for spinal fusion surgery: A systematic review and meta-analysis of clinical outcomes and imaging features

This meta-analysis aims to compare the radiographic and clinical outcomes between graft substitutes with autologous cell therapies and graft substitutes alone.

JOR Spine

Link: <https://doi.org/10.1002/jsp2.1347>

[2024]

Survivorship of total knee arthroplasty in poliomyelitis patients: long-term results from the R.I.P.O. registry and single-institution retrospective study

This study aims to report the long-term survival of TKA in patients with poliomyelitis, using data from the Italian Register of Prosthetic Implantology.

Archives of Orthopaedic and Trauma Surgery

Link: <https://doi.org/10.1007/s00402-024-05426-y>

[2024]

Comparison Between Resident and Attending Surgeons as Assistants on Adolescent Idiopathic Scoliosis Surgery: No Differences in Outcomes, Complications Rate, or Pedicle Screw Placement Accuracy

The aim of the present study was to determine if the level of training of the first assistant (resident or attending surgeon) has an influence on the radiographic outcome of AIS surgery and on the accuracy rate of the pedicle screws placement.

Clinical Spine Surgery Journal

Link: https://journals.lww.com/jspinaldisorders/abstract/9900/comparison_between_resident_and_attending_surgeons.343.aspx

CONFERENCE PRESENTATION

[09/13/2021 – 09/14/2021]

LA TECNICA HIPOAD PER IL TRATTAMENTO DELLA SCOLIOSI IDIOPATICA DELL'ADOLESCENTE CON CURVE SUPERIORI A 90°

Virtual Conference Presentation (listed as author) Pre-Meeting Virtual SIOT 2021

Link: <https://siot.it/wp-content/uploads/2021/08/programma-pre-meeting-completo.pdf>

[09/13/2021 – 09/14/2021]

L'UTILIZZO DI CAGE INTERSOMATICHE PER VIA POSTERIORE A LIVELLO DEL RACHIDE TORACICO BASSO NEL TRATTAMENTO DELLE DEFORMITÀ CUNEIFORMI DEL PASSAGGIO TORACO-LOMBARE: TECNICA CHIRURGICA E CASISTICA

Virtual Conference Presentation (listed as author) Pre-Meeting Virtual SIOT 2021

Link: <https://siot.it/wp-content/uploads/2021/08/programma-pre-meeting-completo.pdf>

[09/13/2021 – 09/13/2021]

LA TECNICA HIPOAD PER IL TRATTAMENTO DELLA SCOLIOSI IDIOPATICA DELL'ADOLESCENTE NELL'ADULTO

Virtual Conference Presentation (listed as author) Pre-Meeting Virtual SIOT 2021

Link: <https://siot.it/wp-content/uploads/2021/08/programma-pre-meeting-completo.pdf>

[09/13/2021 – 09/14/2021]

OSTEOTOMIE DI SOTTRAZIONE PEDUNCOLARE TORACICHE MULTIPLE NON CONTIGUE PER IL TRATTAMENTO DELLE IPERCIFOSICHE TORACICHE RIGIDE, SEVERE E A BREVE RAGGIO: TECNICA CHIRURGICA E SERIE DI CASI

Virtual Conference Presentation (listed as author) Pre-Meeting Virtual SIOT 2021

Link: <https://siot.it/wp-content/uploads/2021/08/programma-pre-meeting-completo.pdf>

[09/13/2021 – 09/13/2021]

L'UTILIZZO DI PROTESI DI GINOCCHIO VINCOLATE NEI PAZIENTI CON ESITI DI POLIOMIELITE: NOSTRA ESPERIENZA E REVISIONE DELLA LETTERATURA

Virtual Conference Presentation (listed as author) Pre-Meeting Virtual SIOT 2021

Link: <https://siot.it/wp-content/uploads/2021/08/programma-pre-meeting-completo.pdf>

[05/12/2022 – 05/14/2022]

L'UTILIZZO DI CAGE INTERSOMATICHE PER VIA POSTERIORE A LIVELLO DEL RACHIDE TORACICO BASSO NEL TRATTAMENTO DELLE DEFORMITÀ CUNEIFORMI DEL PASSAGGIO TORACO-LOMBARE: TECNICA CHIRURGICA E CASISTICA

Presentation (listed as author) at SICV&GIS - BOLOGNA 2022

Link: https://siot.it/wp-content/uploads/2022/08/Programma-SICV_GIS-2022.pdf

[05/12/2022 – 05/14/2022]

PUO' LO STUDIO TC A BASSA DOSE PRE-OPERATORIO MIGLIORARE L'ACCURATEZZA NEL POSIZIONAMENTO DELLE VITI PEDUNCOLARI? RISULTATI DI UNO STUDIO RETROSPETTIVO

Presentation (listed as author) at SICV&GIS - BOLOGNA 2022

Link: https://siot.it/wp-content/uploads/2022/08/Programma-SICV_GIS-2022.pdf

[05/12/2022 – 05/14/2022]

L'UTILIZZO DELLA TECNICA HI-POAD PER IL TRATTAMENTO DELLE SCOLIOSI IDIOPATICHE DELL'ADOLESCENZA SEVERE E RIGIDE, CON AMPIEZZA SUPERIORE A 90° - SERIE DI CASI

Presentation (listed as author) at SICV&GIS - BOLOGNA 2022

Link: https://siot.it/wp-content/uploads/2022/08/Programma-SICV_GIS-2022.pdf

[06/01/2022 – 06/04/2022]

Hi-PoAD technique for the management of severe, stiff, Adolescent Idiopathic Scoliosis curves higher than 90°- personal case series

Presentation (listed as author) at Global Spine Congress 2022 - Las Vegas

Link: http://gsc2022.org/docs/GSC_2022_FP_Web.pdf

[07/01/2022 – 07/02/2022]

La tecnica HIPOAD per il trattamento della scoliosi idiopatica dell'adolescente con curve superiore a 90°

Presentation (listed as author) at AISOT 2022 - Bari

[11/08/2022 – 11/10/2022]

La tecnica HIPOAD per il trattamento della scoliosi idiopatica dell'adolescente con curve superiore a 90°

Conference poster presentation (presenting author) at SIOT 2022 - ROMA

Link: https://www.congressosiot.it/wp-content/uploads/2022/09/E-poster-2_09_2022.pdf

[11/08/2022 – 11/08/2022]

L'OSTEOTOMIA DI SOTTRAZIONE PEDUNCOLARE TORACICA NELLE GRAVI DEFORMITA'

Conference poster presentation (presenting author) SIOT 2022 - ROMA

Link: https://www.congressosiot.it/wp-content/uploads/2022/09/E-poster-2_09_2022.pdf

[11/12/2022 – 11/12/2022]

LA PIANIFICAZIONE TAC 3D NELLA CHIRURGIA DI REVISIONE DELLE SEVERE DEFORMITÀ VERTEBRALI

Presentation (listed as author) SIOT 2022 - ROMA

Link: https://siot.it/wp-content/uploads/2022/09/Programma-16_09_22pdf.pdf

[04/20/2023 – 04/20/2023]

Stenosi Vertebrale, sono tutte da operare?

Presentation (presenting author) Spring School in chirurgia vertebrale 2023 - Bologna

Link: <https://siot.it/wp-content/uploads/2023/04/Programma-spring-school-WEB.pdf>

[06/01/2023 – 06/01/2023]

Are osteopenia and sarcopenia risk factors for surgical site infection after posterior lumbar fusion? A retrospective study

Presentation (presenting author) Global Spine Congress 2023 - Prague

Link: <https://gsc2023.org/index.php/scientific-program/at-a-glance>

[05/31/2023 – 06/02/2023]

Restoration of spinopelvic alignment after reduction of high-grade spondylolisthesis :myth or reality?A systematic review of the literature and meta-analysis

Presentation (among authors) Global Spine Congress 2023 - Prague

[09/29/2023 – 09/29/2023]

Il trattamento chirurgico delle scoliosi idiopatiche dell'adolescente severe in un unico tempo chirurgico: metanalisi della letteratura

Presentation (presenting author) SITOP 2023 - Milan

Link: https://www.sitop.it/wp-content/uploads/2023/09/Sitop_DEF.pdf

[09/29/2023 – 09/29/2023]

La tecnica Hipoad per il trattamento della scoliosi idiopatica dell'adolescente con curve superiori a 90°

Presentation (presenting author) SITOP 2023 - Milan

Link: https://www.sitop.it/wp-content/uploads/2023/09/Sitop_DEF.pdf

[11/11/2023 – 11/11/2023]

SARCOPENIA ED OSTEOPENIA NON SONO FATTORI DI RISCHIO INDIPENDENTI PER INFEZIONE DEL SITO CHIRURGICO E MALATTIA GIUNZIONALE PROSSIMALE IN PAZIENTI SOTTOPOSTI AD ARTRODESI VERTEBRALE LOMBARE POSTERIORE

Presentation (presenting author) SIOT 2023 - Rome

Link: <https://www.congressosiot.it/wp-content/uploads/2023/11/Programma-scientifico-8-11-2023.pdf>

[05/09/2024 – 05/11/2024]

LA DISPLASIA PEDUNCOLARE NELLE CURVE TORACICHE PROSSIMALI NEI PAZIENTI AFFETTI DA SCOLIOSI IDIOPATICA DELL'ADOLESCENTE: COSA STIAMO TRASCURANDO E QUALI POTREBBERO ESSERE LE SUE POSSIBILI IMPLICAZIONI CHIRURGICHE?

Presentation (among authors) 45° SICV&GIS - Rome

Link: <https://www.congressosicvgis.it/programma/>

[05/09/2024 – 05/11/2024]

EVIDENZE SULL'UTILIZZO DELLE OSTEOTOMIE DI PONTE NELLA SCOLIOSI IDIOPATICA DELL'ADOLESCENZA: REVISIONE SISTEMATICA DELLA LETTERATURA E METANALISI DI STUDI COMPARATIVI

Presentation (among authors) 45° SICV&GIS - Rome

Link: <https://www.congressosicvgis.it/programma/>

QUALI FATTORI PREDICONO IL RIPRISTINO DELL'ALLINEAMENTO SAGITTALE CERVICALE DOPO LA CORREZIONE CHIRURGICA DELLA SCOLIOSI IDIOPATICA DELL'ADOLESCENTE CON GRAVE IPOCIFOSI TORACICA? UNO STUDIO RETROSPETTIVO MULTICENTRICO SU 57 PAZIENTI.

Presentation (among authors) 45° SICV&GIS - Rome

Link: <https://www.congressosicvgis.it/programma/>

[05/09/2024 – 05/11/2024]

IMPATTO DELLA FRAGILITÀ SULLE INFEZIONI DEL SITO CHIRURGICO DOPO ARTRODESI VERTEBRALE PER PATOLOGIA DEGENERATIVA DEL RACHIDE. UN INDICE DI FRAGILITÀ PUÒ RAPPRESENTARE UN INDICATORE SINTETICO DI RISCHIO? UNA METANALISI DELLA LETTERATURA

Presentation (presenting author) 45° SICV&GIS - Rome

Link: <https://www.congressosicvgis.it/programma/>

[05/09/2024 – 05/11/2024]

REGOLAZIONE EPIGENETICA DELLA PROGRESSIONE DELLA CURVA SCOLIOTICA NEI PAZIENTI AFFETTI DA SCOLIOSI IDIOPATICA DELL'ADOLESCENTE; STUDIO DEL RUOLO DEL WNT SIGNALLING PATHWAY

Presentation (presenting author) 45° SICV&GIS - Rome

Link: <https://www.congressosicvgis.it/programma/>

[05/09/2024 – 05/11/2024]

DEGENERAZIONE E DOLORE DELL'ARTICOLAZIONE SACROILIACA DOPO ARTRODESI SPINALE: UNA REVISIONE SISTEMATICA

Presentation (presenting author) 45° SICV&GIS - Rome

Link: <https://www.congressosicvgis.it/programma/>

[05/09/2024 – 05/11/2024]

COME OTTIMIZZARE LA MANOVRA DI RIDUZIONE NELLE SPONDILOLISTESI AD ALTO GRADO DI DISPLASIA: ANTIVERSIONE MANUALE DELLA PELVI VS RIDUZIONE SU VITI STANDARD PER VIA POSTERIORE.

Presentation (presenting author) 45° SICV&GIS - Rome

Link: <https://www.congressosicvgis.it/programma/>

CONFERENCE POSTER

[05/12/2022 – 05/14/2022]

LA SARCOPENIA E' UN FATTORE DI RISCHIO POST OPERATORIO PER INFEZIONE DEL SITO CHIRURGICO NEL PAZIENTE SOTTOPOSTO AD ARTRODESI LOMBARE CON ACCESSO POSTERIORE?

SICV/GIS 2022 - BOLOGNA

Link: https://siot.it/wp-content/uploads/2022/08/Programma-SICV_GIS-2022.pdf

[05/12/2022 – 05/14/2022]

TRATTAMENTO CHIRURGICO DELLA SCOLIOSI IN PAZIENTI AFFETTI DA DISTROFIA MUSCOLARE CONGENITA DI ULLRICH

SICV/GIS 2022 - BOLOGNA

Link: https://siot.it/wp-content/uploads/2022/08/Programma-SICV_GIS-2022.pdf

[06/01/2022 – 06/04/2022]

Is sarcopenia a risk factor for postoperative surgical site infection after posterior lumbar spinal fusion?

Global Spine Congress 2022 - Las Vegas

Link: http://gsc2022.org/docs/GSC_2022_FP_Web.pdf

[10/19/2022 – 10/21/2022]

Return to sport after posterior spinal fusion for adolescent idiopathic scoliosis: What variables actually have an influence? A retrospective study

Eurospine 2022 - Milan

Link: <https://www.sciencedirect.com/science/article/pii/S2772529422002557?via%3Dihub>

[10/19/2022 – 10/21/2022]

Is Sarcopenia a Risk Factor for Post-Operative Surgical Site Infection After Posterior Lumbar Spinal Fusion?

Eurospine 2022 - Milan

Link: <https://www.sciencedirect.com/science/article/pii/S2772529422002272?via%3Dihub>

[11/10/2022 – 11/10/2022]

LA TECNICA HIPOAD PER IL TRATTAMENTO DELLA SCOLIOSI IDIOPATICA DELL'ADOLESCENTE CON CURVE SUPERIORI A 90°

SIOT 2022 - ROMA

Link: https://www.congressosiot.it/wp-content/uploads/2022/09/E-poster-2_09_2022.pdf

[11/10/2022 – 11/10/2022]

L'OSTEOTOMIA DI SOTTRAZIONE PEDUNCOLARE TORACICA NELLE GRAVI DEFORMITÀ

SIOT 2022 - ROMA

Link: https://www.congressosiot.it/wp-content/uploads/2022/09/E-poster-2_09_2022.pdf

[11/10/2022 – 11/10/2022]

TRATTAMENTO DEL MALTRACKING ROTULEO DOPO SOSTITUZIONE PROTESICA TOTALE DI GINOCCHIO: UNA REVISIONE SISTEMATICA

SIOT 2022 - ROMA

Link: https://www.congressosiot.it/wp-content/uploads/2022/09/E-poster-2_09_2022.pdf

[11/10/2022 – 11/10/2022]

TRATTAMENTO CHIRURGICO DELLA SPONDILOLISTESI ISTMICA AD ALTO GRADO DI DISPLASIA TRAMITE RIDUZIONE E ARTRODESI POSTERIORE: TECNICA E SERIE DI CASI

SIOT 2022 - ROMA

Link: https://www.congressosiot.it/wp-content/uploads/2022/09/E-poster-2_09_2022.pdf

[11/10/2022 – 11/10/2022]

3 IL RUOLO DELL'OFFEST CONDILARE FEMORALE POSTERIORE SUI RISULTATI CLINICI E FUNZIONALI DOPO SOSTITUZIONE PROTESICA DEL GINOCCHIO

SIOT 2022 - ROMA

Link: https://www.congressosiot.it/wp-content/uploads/2022/09/E-poster-2_09_2022.pdf

[03/2023 – 03/2023]

A Comprehensive MRI Classification System for Lumbar Spine Stenosis

ECR 2023 - Vienna

[05/31/2023 – 06/02/2023]

Sacroiliac joint degeneration and pain after spinal arthrodesis: a systematic review

Global Spine Congress 2023 - Prague

Link: <https://gsc2023.org/index.php/scientific-program/at-a-glance>

[05/31/2023 – 06/02/2023]

Epigenetic and genetic factors related to curve progression in adolescent idiopathic scoliosis: a systematic scoping review of the current literature

Global Spine Congress 2023 - Prague

Link: <https://gsc2023.org/index.php/scientific-program/at-a-glance>

[05/31/2023 – 06/02/2023]

Surgical treatment of severe adolescent idiopathic scoliosis through one-stage posterior-only approach: A systematic review and meta-analysis

Global Spine Congress 2023 - Prague

Link: <https://gsc2023.org/index.php/scientific-program/at-a-glance>

[11/10/2023 – 11/10/2023]

IL TRATTAMENTO ONE-STAGE, ALL-POSTERIOR DELLE SCOLIOSI IDIOPATICHE SEVERE DELL'ADOLESCENTE: RISULTATI DI UNA REVISIONE SISTEMATICA DELLA LETTERATURA E METANALISI

SIOT 2023 - Rome

Link: <https://www.congressosiot.it/wp-content/uploads/2023/11/Programma-scientifico-8-11-2023.pdf>

[11/10/2023 – 11/10/2023]

RIPRISTINO DELL'ALLINEAMENTO SPINOPELVICO DOPO RIDUZIONE DELLA SPONDILOLISTESI DI ALTO GRADO: MITO O REALTÀ? REVISIONE SISTEMATICA DELLA LETTERATURA E METANALISI

SIOT 2023 - Rome

Link: <https://www.congressosiot.it/wp-content/uploads/2023/11/Programma-scientifico-8-11-2023.pdf>

[11/10/2023 – 11/10/2023]

IL RITORNO ALLO SPORT DOPO ARTRODESI POSTERIORE PER SCOLIOSI IDIOPATICA DELL'ADOLESCENTE: QUALI VARIABILI REALMENTE LO INFLUENZANO? RISULTATI DI UNO STUDIO RETROSPETTIVO

SIOT 2023 - Rome

Link: <https://www.congressosiot.it/wp-content/uploads/2023/11/Programma-scientifico-8-11-2023.pdf>

[05/09/2024 – 05/11/2024]

UNO STUDIO PILOTA SUI BIOMARCATORI CIRCOLANTI, CELLULARI E TISSUTALI IN PAZIENTI SOTTOPOSTI A CHIRURGIA DELLA COLONNA VERTEBRALE AFFETTI DA OSTEOSARCOPENIA

45° SICV&GIS - Rome

Link: <https://www.congressosicvgis.it/programma/>

[05/09/2024 – 05/11/2024]

ESISTE UN INDICE DI ETÀ SCHELETRICA CHE PUÒ PREDIRE CON PRECISIONE LA PROGRESSIONE ACCURATA DELLA CURVA NELLA SCOLIOSI IDIOPATICA DELL'ADOLESCENTE? UNA REVISIONE SISTEMATICA

45° SICV&GIS - Rome

Link: <https://www.congressosicvgis.it/programma/>

[05/09/2024 – 05/11/2024]

L'ARTRODESI VERTEBRALE ESTESA AD L3 O L4 NELLA SCOLIOSI IDIOPATICA DELL'ADOLESCENTE DETERMINA TASSI COMPARABILI DI DEGENERAZIONE DISCALE NEL LONG TERM FOLLOW-UP: RISULTATI DI UNA REVISIONE SISTEMATICA DELLA LETTERATURA E META-ANALISI

45° SICV&GIS - Rome

Link: <https://www.congressosicvgis.it/programma/>

[05/09/2024 – 05/11/2024]

RIPRISTINO DEI PARAMETRI SPINO-PELVICI IN SEGUITO A RIDUZIONE ED ARTRODESI NELLA SPONDILOLISTESI AD ALTO GRADO DI DISPLASIA: MITO O REALTÀ? REVISIONE SISTEMATICA DELLA LETTERATURA E META-ANALISI

45° SICV&GIS - Rome

Link: <https://www.congressosicvgis.it/programma/>

[05/2024 – 05/2024]

What Factors Predict Cervical Sagittal Alignment Restoration After Correction Of Thoracic Adolescent Idiopathic Scoliosis With Severe Thoracic Hypokyphosis? A Multicenter Retrospective Study On 57 Patients

Global Spine Congress 2024 - Bangkok

Link: <https://www.gsc2024.org/index.php/program/scientific-program>

[05/2024 – 05/2024]

Ponte Osteotomies In The Surgical Treatment Of Adolescent Idiopathic Scoliosis: Better Defomity Correction Or Just Extra Blood Loss? A Systematic Review Of The Literature And Meta- Analysis Of Comparative Studies

Global Spine Congress 2024 - Bangkok

Link: <https://www.gsc2024.org/index.php/program/scientific-program>

[05/2024 – 05/2024]

Risk Factor For Postoperative Coronal Imbalance After Surgical Correction Of Adult Spinal Deformities: A Systematic Review With Pooled Analysis

Global Spine Congress 2024 - Bangkok

Link: <https://www.gsc2024.org/index.php/program/scientific-program>

[05/2024 – 05/2024]

What Factors Are Associated With Post-Operative Coronal Imbalance After Adult Spinal Deformity Surgery? Result Of A Retrospective Study On 127 Patients

Global Spine Congress 2024 - Bangkok

Link: <https://www.gsc2024.org/index.php/program/scientific-program>

[05/2024 – 05/2024]

A New Comprehensive MRI Classification And Grading System For Lumbosacral Central And Lateral Stenosis: Clinical Application And Comparison With Previous Systems

Global Spine Congress 2024 - Bangkok

Link: <https://www.gsc2024.org/index.php/program/scientific-program>

AWARDS

[08/31/2021 – 08/31/2021]

High Thoracic Pedicle Subtraction Osteotomy in the Management of Severe Congenital Kyphoscoliosis in the Adult

AAOS 2020 - OVT Award Winner (Spine) American Academy of Orthopaedic Surgeons

Link: https://www.aaos.org/videos/video-detail-page/23242_Videos

[03/22/2022 – 03/22/2022]

Two-Level Noncontiguous Simultaneous Thoracic Pedicle Subtraction Osteotomy in the Treatment of Severe Fixed Thoracolumbar Hyperkyphosis

AAOS 2021 - OVT Award Winner (Spine) American Academy of Orthopaedic Surgeons

Link: https://www.aaos.org/videos/video-detail-page/25481_Videos

[03/2023 – 03/2023]

High-Dysplastic Spondylolisthesis With Associated Severe Scoliosis: Treatment Principles and Surgical Technique

AAOS 2022 - OVT Award Winner (Spine) American Academy of Orthopaedic Surgeons

Link: https://www.aaos.org/videos/video-detail-page/26719_Videos

[03/2024 – 03/2024]

Cervical Corpectomy in the Management of Multilevel Cervical Stenosis: Principles of Therapy and Surgical Technique

AAOS 2023 - OVT Award Winner (Spine) American Academy of Orthopaedic Surgeons

Link: https://www.aaos.org/videos/video-detail-page/27076_Videos

REVIEWER FOR INTERNATIONAL ORTHOPAEDIC JOURNALS

[04/30/2020 – Current]

Spine

Scope of the journal:

Spine is a peer-reviewed, multidisciplinary journal directed to an audience of spine physicians and scientists. The journal publishes original articles in the form of clinical and basic research. Spine will only publish studies that have institutional review board (IRB) or similar ethics committee approval for human and animal studies and have strictly observed a sufficient follow-up period. With the exception of reference presentation, Spine requires that all manuscripts be prepared in accordance with the Uniform Requirements for Manuscripts Submitted to Biomedical Journals.

Link: <https://journals.lww.com/spinejournal/Pages/AbouttheJournal.aspx>

[2021 – Current]

Muskoloskeletal Surgery

Musculoskeletal Surgery – formerly *La Chirurgia degli Organi di Movimento*, founded in 1917 at the Istituto Ortopedico Rizzoli – is a peer-reviewed journal published three times a year. The Journal provides up-to-date information for clinicians and scientists through the publication of original papers and reviews dealing with the pathogenesis and treatment of orthopaedic conditions.

At a time when the number of specialty journals is increasing, Musculoskeletal Surgery will continue to fulfil its special role as a general orthopaedic journal. The aim, reflecting the vision of the founder, Prof. Vittorio Putti, is to contribute to orthopaedic knowledge through solid scientific publications that help orthopaedic surgeons in their current practice.

The Journal is international in both scope and readership, as reflected by its editorial team and contributors, who include experts from around the globe. The Journal is indexed in PubMed/MEDLINE and is available in electronic format at www.springerlink.com.

[12/29/2022 – Current]

International Journal of Environmental Research and Public Health

International Journal of Environmental Research and Public Health is an interdisciplinary, **peer-reviewed**, open access journal published semimonthly online by MDPI. It covers Environmental Sciences and Engineering, Public Health, Environmental Health, Occupational Hygiene, Health Economic and Global Health Research, etc. The **International Society Doctors for the Environment (ISDE)** and **Italian Society of Environmental Medicine (SIMA)** are affiliated with *IJERPH* and their members receive a discount on the article processing charges.

Link: https://www.mdpi.com/journal/ijerph/submission_reviewers

[02/09/2023 – Current]

Healthcare

Healthcare (ISSN 2227-9032) is an international, scientific, open access journal on health care systems, industry, technology, policy, and regulation, and is published quarterly online by MDPI.

ISSN: [2227-9032](https://doi.org/10.3390/2227-9032)

Link: <https://www.mdpi.com/journal/healthcare>

[03/17/2023 – Current]

Journal of personalized medicine

Journal of Personalized Medicine (JPM; ISSN 2075-4426) is an international, open access journal aimed at bringing all aspects of personalized medicine to one platform. *JPM* publishes cutting edge, innovative preclinical and translational scientific research and technologies related to personalized medicine (e.g., precision medicine, pharmacogenomics/proteomics, systems biology, 'omics association analysis).

Link: <https://www.mdpi.com/journal/jpm>

[04/2023 – Current]

International Journal of Molecular Sciences

The International Journal of Molecular Sciences (ISSN 1422-0067) provides an advanced forum for chemistry, molecular physics (chemical physics and physical chemistry) and molecular biology. It publishes research articles, reviews, communications and short notes. Our aim is to encourage scientists to publish their theoretical and experimental results in as much detail as possible. Therefore, there is no restriction on the length of the papers or the number of electronics supplementary files. For articles with computational results, the full experimental details must be provided so that the results can be reproduced. Electronic files regarding the full details of the calculation and experimental procedure, if unable to be published in a normal way, can be deposited as supplementary material (including animated pictures, videos, interactive Excel sheets, software executables and others).

ISSN: [1422-0067](https://doi.org/10.3390/ijms14220067)

Link: <https://www.mdpi.com/journal/ijms>

[05/2023 – Current]

Journal of Clinical Medicine

Journal of Clinical Medicine (ISSN 2077-0383), is an international scientific open access journal, providing a platform for advances in health care/clinical practices, the study of direct observation of patients and general medical research. This multi-disciplinary journal is aimed at a wide audience of medical researchers and healthcare professionals. Unique features of this journal: manuscripts regarding original research and ideas will be particularly welcomed. JCM also accepts reviews, communications, and short notes. There is no limit to publication length: our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible.

ISSN: [2077-0383](https://doi.org/10.3390/jcm20770383)

Link: <https://www.mdpi.com/journal/jcm>

[06/14/2023 – Current]

Global Spine Journal

Global Spine Journal (GSJ) is an [open access](https://www.sagepub.com/open-access), peer-reviewed journal which focuses on the study and treatment of spinal disorders, including diagnosis, operative and non-operative treatment options, surgical techniques, and emerging research and clinical developments.

Link: <https://journals.sagepub.com/description/GSJ>

[09/29/2023 – Current]

Frontiers in Surgery

A multidisciplinary journal which explores surgical practices - from fundamental principles to advances in microsurgery and minimally invasive techniques. It fosters innovation and improves the clinical management of patients.

Link: <https://www.frontiersin.org/journals/surgery>

[Current]

Archives of Orthopaedic and Trauma Surgery

Archives of Orthopaedic and Trauma Surgery is a rich source for research and clinical practice in the field of orthopaedics and traumatology:

- Publishes papers dealing with diseases and injuries of the musculoskeletal system.
- Places special emphasis on clinical relevance.
- Serves the information needs of orthopaedic clinicians and practitioners.

Link: <https://link.springer.com/journal/402>

CERTIFICATES AND COURSES

[04/01/2023 – 05/27/2023]

AO Spine Online Course—The MISS Spectrum Series

Goal of the course

This course covers Minimally Invasive Spine Surgery (MISS), starting with indications and general skills and moving to specific procedures with the areas of microscopic, endoscopic, and instrumented procedures. All content is presented in a standardized fashion based on the AO Spine MISS Curriculum and published nomenclature.

Learning objectives

On completion of this course, participants will be able to:

- Diagnose the patient problem correlating the clinical findings with imaging and work up
- Recognize appropriate indications based on your skill set and case experience
- Select appropriate MISS procedure for the pathology and indication
- Recognize when MISS is not an appropriate option
- Describe how to set up the technology, operating room, and the team for MISS procedures
- Describe the phases and steps for core microscopic, endoscopic, and instrumented MISS procedures
- Describe how to manage complications and apply a backup plan

Course description

The online course is delivered as a series of self-directed learning activities and resources, combined with 4 live online hours of 1 hour. Readings and prerecorded presentations are viewed to prepare for 3 synchronous (live) online small group discussions, which are led by international experts in the various areas of MISS. Additional AO Spine resources such as Surgery Reference, and MyAO case application, and case uploading are integrated in the learning experience.

Link: <https://aofoundation.force.com/s/lt-event?>

[id=a1R0800000A6gle&site=a0a1p00000a7dirAAA&_ga=2.19187512.1208921590.1686412399-494099.1681819601](https://aofoundation.force.com/s/lt-event?id=a1R0800000A6gle&site=a0a1p00000a7dirAAA&_ga=2.19187512.1208921590.1686412399-494099.1681819601)

[06/07/2024 – 06/09/2024]

Current Concepts in Spine Deformity

Presented in collaboration with the Scoliosis Research Society and EUROSPINE, the current concepts courses offer a unique opportunity to learn from esteemed experts at the forefront of spinal deformity research and treatment.

Learning Objectives

Upon completion of this course, participants should be able to:

- Describe the biomechanical principles of spinal deformities.
- Classify and identify indications for scoliotic patients of varying ages including neuromuscular and kyphotic cases.
- Formulate a pre-operative plan and analyze its results post operatively for spinal deformity cases.
- Recognize and associate appropriate treatment options for varying spine deformity patients.
- Analyze factors that lead to complications and apply complication prevention strategies for differing procedures and approaches for spine deformity treatment.

Link: <https://www.srs.org/Meetings-Conferences/Regional-Courses/Current-Concepts-in-Spine-Deformity>

CONFERENCES AND SEMINARS

[07/05/2021 – 07/05/2021] Webinar

La doppia mobilità nella protesi primaria d'anca

Link: https://siot.it/wp-content/uploads/2021/06/Programma-Webinar_SIdA_5.07.2021.pdf

[04/08/2022 – 04/09/2022] Modena, Italy

VIII Congresso Nazionale AIR - Associazione Italiana Riprotesizzazione

Link: <https://adarteventi.com/CongressoAIR2022>

[10/06/2021 – 10/08/2021] Wien - Austria

Eurospine - 2021 Wien

Link: <https://www.eurospine.org/p31004150.html>

[05/11/2022 – 05/11/2022] Turin - Italy

Chirurgia protesica for dummies - Protesi Totale di Ginocchio

Link: <https://www.lcfcongress.com/eventi/corso-chirurgia-protesica-for-dummies/>

[05/12/2022 – 05/14/2022] Bologna, Italy

SICV&GIS - 2022 Bologna

Link: <https://www.congressosicvgis.it/>

[05/31/2022 – 05/31/2022] Webinar SICM

Management delle fratture del radio distale

Link: <https://www.sicm.it/it/webinar.html>

[10/04/2022 – 10/05/2022] Riccione - Italy

BOOTCAMP OTODI 2022 - Riccione

Link: <https://www.lcfcongress.com/eventi/boot-camp-2022/>

[10/19/2022 – 10/21/2022] Milan - Italy

Eurospine 2022 - Milan

Link: <https://www.eurospinemeeting.org/>

[11/10/2022 – 11/11/2022] Rome - Italy

SIOT 2022 - Rome

Link: https://siot.it/wp-content/uploads/2022/09/Programma-16_09_22pdf.pdf

[05/31/2023 – 06/02/2023] Prague - Czech Republic

Global Spine Congress 2023 - Prague

Link: <https://gsc2023.org/>

[04/19/2023 – 04/21/2023] Bologna - Italy

Spring School in Chirurgia Vertebrale "Memorial Piergiorgio Marchetti ed Alessandro Faldini"

Link: https://siot.it/congressi/spring-school-in-chirurgia-vertebrale-memorial-piergiorgio-marchetti-ed-alessandro-faldini/#link_acc-1-2-d

[09/28/2023 – 09/30/2023] Milan - Italy

Congresso Nazionale SITOP 2023

Link: https://www.sitop.it/wp-content/uploads/2023/09/Sitop_DEF.pdf

[07/05/2023 – 07/05/2023] Webinar

Il trattamento chirurgico della scoliosi idiopatica

Link: <https://siotformazione.algores.it/>

[09/20/2023 – 09/20/2023] Webinar

Ernia del disco cervicale e lombare

Link: <https://siotformazione.algores.it/>

[11/09/2023 – 11/11/2023] Rome - Italy

SIOT 2023 - Rome

Link: <https://www.congressosiot.it/2023/>

[11/09/2024 – 11/11/2024] Rome - Italy

SICV&GIS 2024 - Rome

Link: <https://gis-italia.org/congressi/45-congresso-nazionale/>

[06/13/2024 – 06/14/2024] Zürich - Switzerland

Schulthess Clinic Accademy 2024 - Spine

Link: <https://www.schulthess-klinik.ch/de/kurse-und-veranstaltungen/schulthess-clinic-academy-2024-spine>

[09/11/2024 – 09/14/2024] Barcelona - Spain

SRS Annual Meeting

Link: <https://www.srs.org/Meetings-Conferences/Annual-Meeting/AM24>

NETWORKS AND MEMBERSHIPS

[2022 – Current]

Membership / associations

- Member of *OMCeO (Ordine dei Medici Chirurghi e degli Odontoiatri)* Province of Lucca, Italy
- Past Member of "Listamina: direct, practical, free"
- AO SPINE Member Plus
- SIOT - Società Italiana Ortopedia e Traumatologia

TEACHING ACTIVITIES

[04/03/2024 – 04/03/2024]

Lecture "Ortopedia 2" Online

Orthopedics and Traumatology lecture for AIMS (accademia italiana medici specializzandi)

DIGITAL SKILLS

Picture Archiving and Communication System (PACS) / Google Drive / Google Docs / Organizational and planning skills / Surgimap / Medical Database / Davinci Resolve 17 / Orthopedic video / Social Media (Facebook, Twitter, Instagram, LinkedIn) / Gmail / Google / Browser Utilisation / PDF management / Whatsapp / Windows (Optimal Knowledge) / Autonomous E-Mail managing

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills. - Good communication skills with patients gained through curricular traineeship in hospital departments of the Pisa University Hospital Company, through Erasmus traineeship in "Centre Hospitalier Universitaire" CHU of Bordeaux and through IRCCS - Istituto Ortopedico Rizzoli

ORGANISATIONAL SKILLS

Organisational / managerial skills - Leadership:

1) Student representative in the council of Department of Translational Research and New Technologies in

Medicine and Surgery, University of Pisa

2) Student representative in the council of Corso di Laurea in Medicine and Surgery, University of Pisa

VOLUNTEERING

[08/31/2007 – 01/31/2019] Misericordia di Massarosa

Advanced level rescuer

Link: <http://www.misericordiamassarosa.it/>

DRIVING LICENCE

Driving Licence: AM

Driving Licence: A1

Driving Licence: B

I authorize the processing of my personal data included in the CV in accordance with Legislative Decree No. 196 of June 30, 2003, 'Code regarding the protection of personal data' and Article 13 of the GDPR (EU Regulation 2016/679).

Bologna, Emilia-Romagna, Italy, 09/28/2024



Marco Manzetti