

JuniOrtho™
paediatrics powered by **ORTHOFIX®**



JuniOrtho™ is a range of products and resources created by Orthofix, dedicated to children and young adults with bone fractures and deformities

You can't always see the hero inside...


ORTHOFIX®

“Only children believe
they’re capable of
everything”

Paulo Coelho





With a long history of developing innovative and leading-edge solutions, Orthofix has now brought all of its paediatric expertise and products together under the JuniOrtho banner

Orthofix is a diversified medical device company focused on improving patients' lives, by providing superior reconstructive and regenerative orthopaedic and spine solutions to physicians worldwide.

The JuniOrtho team, and range of products, is devoted to helping children with trauma and deformity be the very best that they can be.

Offering help and support

We are not just suppliers of paediatric products – we immerse ourselves in the process and offer help and support before, during and after surgery.

We offer various support tools to help families and medical professionals alike, including:

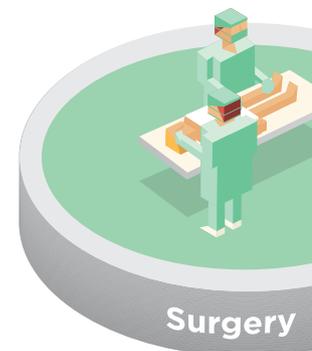
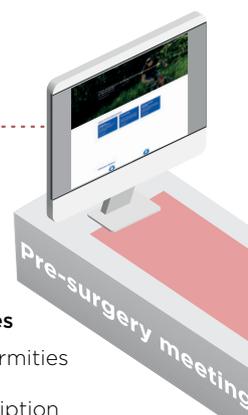
- **The JuniOrtho™ website - www.juniortho.club**
The website features helpful advice, resources and tools for families, surgeons and other professionals.
- **www.limbhealing.com** - featuring information on deformity, patient stories and more useful resources.
- **Apps, games and literature** to help children understand and be comfortable with the procedures they undergo.

Our aim is to reduce any worries about the surgery and healing process for families and patients by informing and educating, and to give surgeons resources to aid them in answering families' questions.

18+
years old

LIMBHEALING.COM Adult patients and families

- Description of limb deformities
- Treatment options
- TL-HEX treatment description
- Patient testimonials
- Resources
- Surgeon locator



KIT FOR KIDS

Varied fun games to entertain the young patient and help the surgeon and parents explain their treatment

7-12
years old



COMIC STRIP

Launch "platform" to mySuperheroAcademy™ edugame and to the superhero section in the www.limbhealing.com

10-15
years old



mySuperhero Academy™

4 match 3 and 8 runner games will entertain patients 10-15 years old



18+ years old

INFORMATIVE BROCHURE
Adult patients and families

10-15 years old



mySuperheroAcademy™



A quiz area designed to educate paediatric patients during the pre-surgery meetings with the orthopaedic surgeon or the care team members. 4 match 3 and 8 runner games will entertain patients 10-15 years old. Unlocking code required (printed on the comic strip)

post-operative management

Implant removal

End of treatment

- Struts adjustment
- Pin-site care
- Diary
- Prescription
- Time-lapse

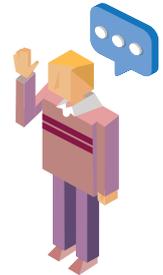
18+ years old

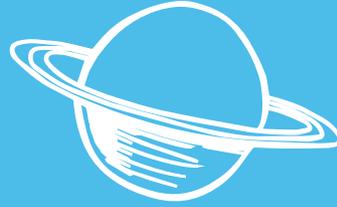


myHEXplan™
Adult patients and families



Deformity correction journey on your mobile device





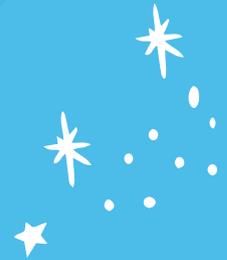
A broad portfolio of solutions

The JuniOrtho™ team is committed to thinking, planning and engineering products and services for kids and young adults. We believe that adapting standard adult products to children is simply suboptimal and we are changing that. We offer innovative and minimally invasive solutions for surgeons to help improve the quality of life of our patients.

Our orthopaedics products are designed to address the lifelong bone-and-joint health needs of patients. Our well-rounded product lines offer comprehensive solutions within both the limb reconstruction and trauma specialties.

“Free the child’s potential, and you will **transform** him into the world”

Maria Montessori



TL-HEX TrueLok
Hexapod System®



TL-HEX TrueLok Hexapod System®



The TL-HEX system is intended for limb lengthening by metaphyseal or epiphyseal distractions, fixation of open and closed fractures, treatment of non-union or pseudoarthrosis of long bones and correction of bony or soft tissue defects or deformities. It consists of hardware and associated software for simplified deformity correction and trauma management.



AGILE Nail™



The AGILE nail is designed to address femoral fractures and deformity correction procedures. It consists of antegrade intramedullary nails for the femur with respective end-caps and locking screws. The intramedullary nails feature proximal and distal holes to accept locking screws. Nails, end-caps and screws are available in several sizes and are manufactured from a titanium alloy. All implantable devices are designed for single use only.



eight-Plate Guided Growth System+™



An extra-periosteal plate that uses the robust growth potential of the child's physis to gently guide the correction of angular deformity. Indicated for gradually correcting angular growth deformities in growing children. Specific conditions/diseases for which the device will be indicated include: valgus, varus or flexion, extension deformities of the knee (femur and/or tibia); valgus, varus, or plantar flexion deformities of the ankle; valgus or varus deformities of the elbow (humerus), and radial or ulnar deviation, flexion or extension deformities of the wrist (radius).



LRS paediatric



The paediatric LRS system aims to successfully treat congenital and post-traumatic deformities in children: short stature; bone loss; open fractures; non-union; angular deformities.



MJ-FLEX The New Metaizeau Nail™



MJ-FLEX is an intramedullary implant system specifically designed for Elastic Stable Intramedullary Nailing (ESIN) fracture fixation. The principle of ESIN involves balanced nailing to provide elasticity and stability at the fracture site.



Galaxy Fixation™



Galaxy fixation is a modular external fixation system for fracture treatments of lower and upper limbs.



Small DAF

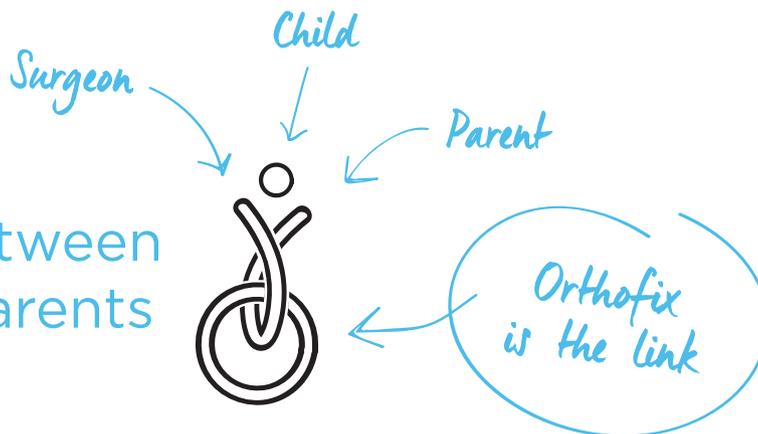


A modular system intended as a means for stabilization of bone segments in a broad range of indications, including fractures and angular corrections (hemicallosis).

MJ-FLEX The New
Metaizeau Nail™



The link between surgeon, parents and child



We understand that there is no stronger bond than the love of a parent for their child, and that they will move mountains to ensure the safety and happiness of their son or daughter.

JuniOrtho products and resources act as the link between surgeon, parents and child. The focus is to help surgeons give children with bone traumas and deformities the best opportunity at achieving their potential.





This is
why we
do what
we do...



...Kevin's Story

Kevin is a 10 year-old boy with a dream... he wants to walk.

He was born with Moebius syndrome, which renders him unable to smile, blink, grimace, or make any kind of facial expression. It also caused bi-lateral club foot, leaving him unable to stand.

Like many patients with club foot, physicians tried to correct Kevin's feet by placing his legs in serial casts, but, unfortunately, this was not successful for him.

His parents were resigned to the reality that he would never walk, but Kevin had a different plan.

"Kevin was seven when he started showing signs that he wanted to walk," said his mother, Kacie. "He started pulling to stand, climbing onto furniture, asking for our hands to walk around, but his feet were so turned in and so deformed at that point, he did not have a good base to stand on."

The family found hope that Kevin may yet walk in TL-HEX external fixation. Kacie contacted Dr. Daniel Hatch, a podiatric foot and ankle surgeon with Foot and Ankle Colorado.

Dr. Hatch had treated Kevin in the past and Kacie contacted him to see if anything could be done.

"It's done very gradually, with one millimetre a day adjustments, and has proven to be very successful with this type of deformity," said Dr. Hatch.

With a careful therapy regime and Kevin's determination, a 10 year old little boy who had never walked soon found himself up and about.

Kacie says, "If I was going talk to another parent about the fixators, I would definitely tell them that it is a long road. It is not easy but it is so worth it."

References

TL-HEX TrueLok Hexapod System®

- Evaluation of the external fixator TrueLok Hexapod System for tibial deformity correction in children. Pesenti S, Iobst CA, Launay F. Orthop Traumatol Surg Res. 2017 Sep; 103(5):761-764.
- Mare P, Thompson D. The use of gradual correction with the TL-HEX external fixator in Blount's disease. Bone Joint J 2014 vol. 96-B no. SUPP 19 11.

eight-Plate Guided Growth System +™

- Guided growth of the trochanteric apophysis combined with soft tissue release for Legg-Calve-Perthes disease. Stevens PM, Anderson LA, Gililand JM, Novais E. Strategies Trauma Limb Reconstr. 2014 Apr; 9(1):37-43.
- Burghardt RD, Herzenberg JE. Temporary hemiepiphysiodesis with the eight-Plate for angular deformities: mid-term results. J Orthop Sci. 2010 Sep;15(5):699-704. doi: 10.1007/s00776-010-1514-9. Epub 2010 Oct 16.
- Correction of Bone Angular Deformities: Experimental Analysis of Staples Versus 8-plate. Goyeneche
- RA, Primomo CE, Lambert N, Miscione H. J Pediatr Orthop 2009; 29:736-740.
- Guided Growth for Fixed Knee Flexion Deformity. Klatt J, Stevens PM. J Pediatr Orthop 2008; 28:626-631.

MJ-FLEX The New Metaizeau Nail™

- Bah M, Suchier Y, Denis D, Metaizeau JD. Pre-clinical analysis of the performance of a new elastic stable intramedullary nail design. Orthopedic Proceedings Feb 2017 vol. 99-B SUPP 3 24.

LRS paediatric

- Paediatric tibial shaft fractures treated by open reduction and stabilization with monolateral external fixation. Simon AL, Apostolou N, Vidal C, Ferrero E, Mazda K, Ilharberborde B. J Child Orthop. 2018 Feb 1; 12(1):20-28.
- Monolateral external fixation for the progressive correction of neurological spastic knee flexion contracture in children. Carbonell PG, Valero JV, Fernández PD, Vicente Franqueira JR. Strategies Trauma Limb Reconstr. 2007 Dec; 2(2-3):91-7.
- Acute correction of lower limb deformity and simultaneous lengthening with a monolateral fixator Donnan LT, Saleh M, Rigby AS. J Bone Joint Surg Br. 2003 Mar; 85(2):254-60.
- Juvenile Blount's disease: bilateral case with asynchronous onset. Shimode K, Miyagi N, Aoki Y, Yasuda K, Yamazaki S, Minami A. J Orthop Sci. 2003; 8(2):222-6.

Small DAF

- Bone lengthening with extra-articular arthrodesis of the hip using external fixation. Mesa PA. Strategies Trauma Limb Reconstr. 2008 Sep; 3(2):75-81.

Distributed by:

Proper surgical procedure is the responsibility of the medical professional. This Manual is furnished as an informative guideline. Each surgeon must evaluate the appropriateness of a technique based on his or her personal medical credentials and experience. Please refer to the Instructions for Use supplied with the products for specific information on indications for use, contraindications, warnings, precautions, adverse effects and sterilization (also available on www.juniortho.club/products).



Manufactured by:



ORTHOFIX Srl
Via Delle Nazioni 9, 37012 Bussolengo (Verona), Italy
Telephone +39 045 6719000, **Fax** +39 045 6719380
Web www.orthofix.com

CE 0123

JO-1701-PL-EO B 11/18

www.juniortho.club