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ESSENTIAL



FROM YOUR NEED OUR RESEARCH
FROM OUR RESEARCH YOUR IDEAL POSTURE

POSTURE



SOLUTIONS DEVELOPED
OVER THE YEARS

simula

**PROFESSIONAL SIMULATOR
TO BUILD THE IDEAL POSTURE**



INDIVIDUAL POSITIONING SOLUTION ON DEMAND



**INDIVIDUAL CUSTOMISABLE
TECHNOLOGY TO QUICKLY AND
CAREFULLY FIT EVERY POSTURAL NEED**



**THE MOST RESISTANT, PERFORMING AND SAFEST
POSITIONING FRAMES**



**CUSTOMISED
HIGHLY MODULAR
TILT IN SPACE FRAME**



**PERFECT FIT
LIGHTWEIGHT AND MODULAR
TILT IN SPACE FRAME**



**PAEDIATRIC TILTING FRAME,
COMPACTNESS AND
INCREASED TILT IN SPACE**



**RECLINING, STABLE AND RESISTANT
TILT IN SPACE FRAME**



**RECLINING AND TILT IN SPACE FRAME,
DYNAMIC FOR MOVEMENT DISORDERS**



PAEDIATRIC POSITIONING SYSTEM



**INTEGRATED PAEDIATRIC POSITIONING SYSTEM
WITH OUTDOOR TILT IN SPACE FRAME**



**INTEGRATED POSITIONING SYSTEM
WITH INDOOR TILT IN SPACE BASE FRAME**



INTEGRATED POSITIONING SYSTEM FOR TEENAGERS



**INTEGRATED POSITIONING SYSTEM FOR ADULT
AND GERIATRIC USERS**



HEAD SUPPORT SYSTEMS



FIXING ELEMENTS FOR THE POSITIONING



PRO MEDICARE:

BORN, GROWN AND POWERED BY PASSION,
RESEARCH AND INNOVATION IN POSTURE

REAL ANSWERS TO SPECIAL NEEDS

**Solutions as result of collaboration, study and dialogue with users,
clinicians and care givers to concretely meet special needs.**

2009

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INSTRUMENTAL ANALYSIS OF CLINICAL EFFECTIVENESS PROMEDICARE VERSA/ ADACTA

The study has involved 15 users with severe Tetraplegia caused by CP, Muscular Dystrophy, Traumatic Brain Injury, Spinal Cord Injury and Genetic Diseases.

The clinic efficiency and effectiveness of the System Versa Adacta, designed to balance both the user body and gravitational load and to provide a supporting surface to deformities, have been evaluated through clinic instrumental procedures.

The use of this system has also shown the positive impact in terms of reduction of the care burden, body function and residual abilities enhancement.

Finally, the study highlighted the necessity of a continuous follow up during the positioning system use and its adjustment due to the user's modifications and pathology evolution, using the instrumental and clinical evaluation.

Professional simulator
to build the ideal posture

simula

Individual positioning solution on demand



2012

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PTS (Pelvic Total Support) A NEW APPROACH TO THE POSTURE OF THE PELVIS

The posture of the trunk starts from the pelvis, so the ability, functions and posture are strictly related.

This study introduces the foundations of this new approach to the posture of the pelvis: Concept, Methodology and Technology, summarizing its background and introducing some examples of its application.

Individual customisable technology to quickly and
carefully fit every postural need



2013

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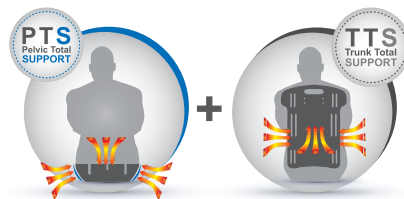
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PTS (Pelvic Total Support) and TTS (Total Trunk Support) GROUNDBREAKING APPROACH TO POSTURE

The harmonious relationship between femurs / pelvis/rachis is fundamental to achieve a well balanced posture, which is safe, relaxed and functional. This study introduces the foundations of the innovative combined approach to the posture of the pelvis and the trunk: Concept, Methodology and Technology, summarizing its background and introducing some examples of its application on wheelchair users affected by various pathologies.



Individual customisable technology to quickly and carefully fit every postural need



2013

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POSTURE MANAGEMENT IN MOVEMENT DISORDERS: A CASE STUDY

This study illustrates a personalized multidisciplinary and multi-professional approach to the management of the posture of the user affected by high extensor tone with severe deformities and strong intensity movements that caused the damage of countless wheelchairs.

It also describes the identifying and designing process of the positioning system characterized by the positioning dynamic frame Adacta Klim combined with Inserto Seat Domino positioning cushion and the personalized positioning backrest Versa. Moreover the study illustrates the planned follow up and the after-delivery adaptations. Finally relevant outcomes are listed such as: improvement in both the comfort and postural performance, reduction of extensor thrust intensity and frequency, starting with voluntary movements, deformities progression reduction, safe use of the wheelchair, reduction in social costs and care burden.

Reclining and tilt in space
frame, dynamic for
movement disorders



Individually customisable
seating solution



Personalised trunk
positioning system



2013/2018

FROM 2013 (4TH EU SEA SYMP), 2014 (PMG CARDIFF), 2016 (ISS VANCOUVER), 2018 (EU SEAT SYMP), 2018 (NORD SEAT SYMP)



Nordic Seating
Symposium 2018

The collection of the thematic studies regarding the postural problems of users with Spinal Cord injury Outcomes starts in 2013 with the study carried out at the Hospital CPO Centro Paraplegici Ostia (IT), in which it was conducted an instrumental analysis considering the impact on biomechanics, seating surfaces pressure and functions. During ADL it was also evaluated the perceived comfort and stability with different cushions and positioning systems for the pelvis. This study creates the fundamentals for the design development of two new positioning solutions for users with Spinal Cord Injury outcomes Inserto Modo and Inserto Novo. The study goes on in 2014 at the Hospital CPO Centro Paraplegici Ostia (IT), at the Unità Spinali Unipolari of Rome and Milan and in 2015 under the authorization of CNOPUS (National Coordination Professional Operators Of Spinal Units), at the Hospital CPO Centro Paraplegici Ostia (Italy) and the Unità Spinali Unipolari of Rome, Milan, Turin, Catania (IT). In these two studies and during these two years, different prototypes of the new seating solutions Inserto Modo and Inserto Novo have been realized and the final design and their materials combination have been validated and tested on users of the Spinal Units. Finally, the clinical indications and identifying criteria as well as the customization and adaptation methodology have been defined.

Individual customisable technology to quickly and carefully fit every postural need



Seating solutions for users
with Spinal Cord Injury outcomes



2015

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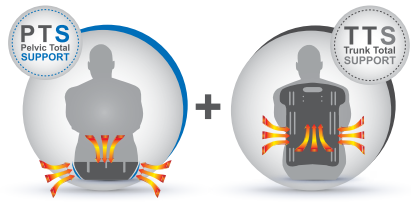
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SIMPLE SOLUTIONS FOR COMPLICATED POSTURES: HOW CAN I IMPROVE MYSELF?

Starting from the combined approach to posture of the PTS (Pelvic Total Support) and TTS (Total Trunk Support) physical and biomechanical principles, the study illustrates the methodology to dynamically balance the femurs / pelvis/ rachis relationship system in the seating position, compensating different postural deficits due to different pathologies outcomes, preventing pressure sores and enhancing physical and mental energy to allow functional performances.



Individual customisable technology
to quickly and carefully fit every postural need



2014/2018

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Nordic Seating
Symposium 2018



A PERSONALIZED SHOCK ABSORBING POSITIONING SYSTEM FOR MOVEMENT DISORDERS

The work illustrates different posture, movements and needs manifestations of users affected by movement disorders.

In a long term prospective, it describes also the researches carried out, firstly clinical and experimental, later industrial and the solutions developed for the combined management of the posture and of movements. The significant milestone is the combination of mechanical movements and the capability to absorb and sweetly return them to the frame base, together with the combined performances of the shock absorbing and low spring back action materials features and the customisable positioning system design adaptable to the user morphology.

The clinical cases study presents many clinical benefits during the years of use.

Reclining and tilt in space
frame, dynamic for
movement disorders



Individually
customisable
seating solution



Individual customisable technology
to quickly and carefully fit every
postural need



2019

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MODULAR POSTURE PAD HIPPO MB: FROM IDEA TO CLINICAL PRACTICE

Object of the poster is the development in collaboration with a multi-professional and multidisciplinary team of an innovative Modular Posture Pad to practice Hippotherapy. It describes the main purposes, such as: provide the user comfort in each posture assumed by the horse, facilitate the therapist actions in order to maximise the therapeutic efficacy of the horse stimulus perceived by the user, guarantee comfort and safety for the user and for the horse. It describes as well the methodology, the developing stages and the results achieved during the use on a little girl with CP. Finally it underlines the benefits, guaranteeing an improvement of the skills and of the rehabilitation performances of Hippotherapy in paediatric users with different rehabilitation needs.



Our positioning solutions meet the European Community regulations and international harmonised standard requirements which can be applied to positioning and assistance systems for people with restricted mobility, through the execution of the tests and required laboratory proofs, such as fatigue, stability, crash, structure, flammability. The designing, production, control and testing are done in compliance with the quality management system UNI EN ISO 13485.



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