



pro
delphus

Surgical Simulators
MADE IN BRAZIL

Marketed by



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SIMULATOR FOR TRAINING IN WOUND MANAGEMENT



Learn how to conduct wound treatment with the Pro Delphus Wound Trainers (WNT) realistic simulators

Through customizable models, it is possible to demonstrate and practice cleaning, debridement, application of simple and vacuum dressings, as well as to choose the best indication for plastic surgeries.



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



WNT-1
Facial and cranial region
wounds
Code 529



WNT-2
Multiple wounds on chest
Code 530



WNT-3
Post burn infected wound on
right hand and arm
Code 531



WNT-4
Back wound, decubitus
and flap ulcers
Code 532



WNT-5
Foot ulcers, infected with
pressure ulcers in the
calcaneus region,
and other pathologies
Code 533



WNT-6
Wound for possible
immobilization. Acute
post-traumatic
injury with loss of substance
Code 534



WNT-7
Diabetic foot. Ulcerated
wounds on leg and
toe amputation
(index toe)
Code 535



WNT-8/WNT-8P
Customizable wound
simulator with
portable base
Code 537/2415

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SIMULATOR FOR TRAINING IN WOUND MANAGEMENT



Components and spare parts:



WNT-14
Back for dressing
in the sacral region
Code 3573



WNT-16
Skin and
stoma block
Code 3575

SUTURE GLOVE SIMULATOR FOR SUTURE



Designed for mixed simulation training, the Delphus Pro Suture Glove allows both suturing practice and analysis of the physician's posture in front of the patient. Sociable approach and surgical techniques are taught and evaluated by the instructor.

ACTION

With his hand and arm hydrated in liquid glycerin, an actor puts on the Neoderma® SUTURE GLOVE, and introduces himself to the student who will be conducting the emergency. During the service, the interactions between the two will be observed, while other students will be able to analyze how the intervention was carried out in terms of sociability and suture technique. The teacher will make the final comments.



SMT-6
Suture Gloves
Code 2567

DURABILITY AND CONSERVATION

Neoderma® has excellent elasticity but does not withstand strong tensions of suture, just like human skin. At the end of the procedure, the nodes must be removed before storing the material for a new use. The Suture Glove should be put on with the help of liquid glycerin and hydrated in the same way after use. Then wrapped in plastic film and stored away from light and heat.

OTHER SUTURE MODELS FROM PRO DELPHUS

Pro Delphus has more than 20 models for suture training. Check our website!

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



Suture Disc
STD-1
Code 1437



Suture Board with 1 cleavage plane
SMT-1V
Code 2369



Tumor Dissection Disc
STD-2
Code 1435

HOP - HANDS ON PUNCTURE SIMULATOR FOR NEEDLING, PUNCTURE AND VENOCYLSIS



Get to know the HOP, a fantastic simulator for multiple venous puncture procedures

The Hands On Puncture (HOP) is an exclusive Pro Delphus product, being the most realistic venipuncture simulator of its kind in the world. Its design meets the needs of doctors, nurses and health professionals in teaching venipuncture procedures.

Mounted on reusable acrylic support, the HOP is equipped with peristaltic pump, allowing speed control and vascular pulse. It has a container for artificial blood accommodation. Its vessels are anatomically integrated into the subcutaneous cell space, which deepens in its path allowing various complexity activities.

If a sequential punctures schedule is obeyed, the HOP allows for hundreds of procedures without leaving marks of the needles. The surgical unit is molded into Neoderma®, developed and produced exclusively by Pro Delphus Simulators. This model does not contain Silicone or Latex in its composition.

With HOP, the learning curve will be reduced, allowing practical teaching with extreme reality. Learn quickly how to perform an infusion with excellence and efficiency.



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



HOP-0
Acrylic Base
Code. 2976



HOP-1
Surgical Unit
Code. 2977

SUTURE DISC SIMULATOR FOR SUTURE AND DISSECTION



Enjoy procedures very close to reality through the use of Neoderma®, exclusive material developed by Pro Delphus that mimics with great realism the human tissues

SUTURE DISC

This Pro Delphus Simulator is a suture training model that provides dozens of suture exercises, from simple needling to nevus, lipoma, hypertrophic scar removal and micro sutures. In addition, Neoderma® is highly flexible and can be used dozens of times without leaving stitch marks. To add even more realism, the SUTURE DISC features cleavage planes and is the only model on the market that comes with exercises on the disc and allows use on its reverse side. The STD simulator allows more than 30 exercises, such as:

- Needling
- Regular suture and irregular edge suture
- Subcutaneous flap
- X, U, inverted U and V sutures
- Suture approach
- Greek rope suture
- Hemostatic suture
- Donati and Semi-Donati suture
- Cyst and nevus removal, foreign body and other procedures
- Intradermal suture and deep suture
- Z-plasty
- Drain placement and fixation
- Ureter suture

The STD simulator consists of an acrylic support and a Neoderma® suture disc with exercises. Note: Surgical instruments are not included. The parts in Neoderma® may have color variation

SUTURE DISC

Pro Delphus Dissection Disc is highly indicated for the practice of abscesses drainage procedures, dissection and excision of tumors, cysts and lipoma. Features scar with keloid and nevus so the students can practice and develop their suture and incision skills with accuracy.

The Dissection Disc can be used both sides:

- Side 1: Tumor dissection, lipoma, nevus, sebaceous cyst, abscess drainage, withdrawal of scar by Z-plasty.
- Side 2: Flat surface ideal for incisions and sutures.

This model is composed by an acrylic support and the surgical unit disc in Neoderma®

STD-1
Suture Disc
Code 1437



DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



STD-2
Dissection Disc
Code 1435

SIMULATOR FOR ULTRASOUND-GUIDED VASCULAR INTERVENTIONS



With the VIP (Vascular Injection Procedure) simulator for ultrasound-guided vascular access procedures, it is possible to train hundreds of punctures with the insertion of guides and large-caliber catheters. The orifice closes after its removal, allowing further examination without persistent acoustic shadowing after 24 hours

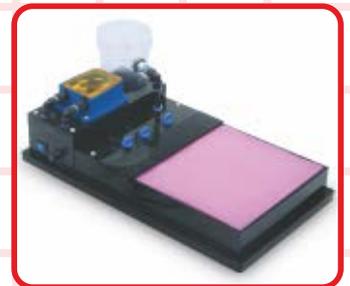


The VIP allows the assessment of the arterial doppler, differentiating it from the venous vascular structure. The sensation of the depression of the vessel during puncture, the loss of resistance of the intraluminal needle, among other tactile perceptions, brings to the VIP characteristics similar only to those obtained in a real patient.

The simulator consists of:



Surgical unit: Made of Neoderma, it has superficial, medium and deep vascular structure. It is multifunctional, with 3 lines of mixed flow vessels (artery and vein) of approximately 20 cm with different calibers. The size of the vessels increases proportionally with depth. It allows several customization options such as atheroma plaques, shunts and more.



Base: Composed by a structure in acrylic, a container for artificial blood, peristaltic pump with speed control, and pressostatic valve that interrupts the vascular flow under pressure, which provides an increase of the internal gauge in the vessel.

Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



VIP-0
Base made of acrylic with
pressurizing unit
Code 2576



VIP-1
Surgical unit with 3 arteries
and 2 distinct veins
Code 2577

SIMULATOR FOR SUTURE TRAINING



The Neo Knot simulator is simple and customizable according to your training focus. With an acrylic and velcro base, it accepts all Pro Delphus suture models, securing them firmly and allowing the practice of skills in a personalized way, and it's also easy to transport. Ideal for training in simple suture, with the possibility of upgrading to laparoscopy with the use of towers, needle holders and camera. It can even be used with acrylic tablet support, providing realistic training like in an abdominal cavity in laparoscopic vision.

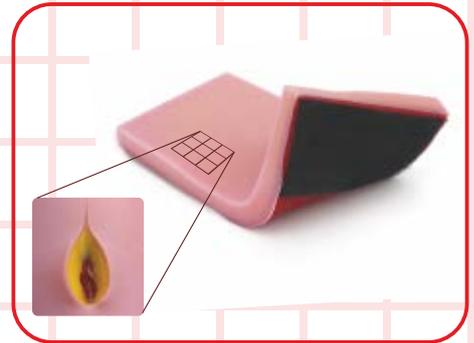
SMT-1 Board with 1 layer

Provides initial realistic training in needling, anodizing, withdrawal of stitches and multiple sutures, in one plate of NEODERMA.



SMT-2 board with 3 layers

It allows all the board training of the SMT-1, plus surgical maneuvers as zetaplasty, flap rotation and multiple sutures showing the cleavage planes.



SMT-0 Multifuncional Base

The SMT multifunctional base allows the use of any Pro Delphus suture training unit, and has option for laparoscopy, WebCam or laparoscopic camera use. Great resource for group lessons.



SMT-0L2 Laparoscopy Upgrade Set

Upgrade set for laparoscopic suturing training using SMT-0 multifunctional board



DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH

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**SIMULATOR FOR
SUTURE TRAINING**



Components and spare parts:



SM-2AV
Irregular needling,
with velcro
Dim.: 9,0 x 1,0 cm
Code 2549



SM-2BV
Regular needling,
with velcro
Dim.: 9,0 x 1,0 cm
Code 2550



SM-3V
Deep and hemostatic
suture, with
velcro. Dim.: 4,5 x 2,5 cm
Code 2536



SMT-OL6
Phone and
tablet support
Code 2776



SM-5
Vertical fastener clip
Dim.: 5,5 x 4,0 cm
Code 428



SM-6V
Deep uterine suture,
post-myomectomy, with velcro.
Dim.: 8,0 x 3,5 cm
Code 2552



SM-7V
Intestinal suture -
2 cleavage levels. Velcro.
Dim.(base): 9,0 x 1,0 cm
Code 2553



SM-8V
Peritoneum and adipose
tissue Velcro.
Dim.: 9,0 x 5,5 cm
Code 2554



SM-9V
Suture disc with tumor,
with velcro
Dim.(base): 9,0 x 1,0 cm
Code 2255



SM-10V
Disc with ureter and
vessels, with velcro.
Dim.: 9,0 x 1,0 cm
Code 2556



SM-11V
Vaginal cuff, with velcro.
Dim.: 5,5 x 2,5 cm
Code 2557



SM-12V
Bladder with 3 cleavage levels,
(allows dissection), with velcro.
Dim.: 9,0 x 5,5 cm. Code 2558



SM-14V
Round model for deep
suturing, with velcro.
Dim.: 7,0 x 3,5 cm
Code 2560



SM-15V
Round model for deep
suturing with tumor, with
velcro. Dim.: 7,0 x 3,5 cm
Code 2561



SM-16V
Model for multiple suturings.
Dim.: 5,0 x 5,0 cm
Code 2562



SM-17V
Suture globe with
vertical fastener clip.
Dim.: 7,0 x 7,0 cm
Code 444



SM-18V
Vascular suture,
with velcro.
Dim.: 11,0 x 11,0 cm
Code 2564



SM-19V
Cylinder for complementary
suture, with velcro.
Dim.: 4,5 x 2,0 cm
Code 2537



SM-20
Cylinder for vertical suture,
with velcro.
Dim.: 4,0 x 3,5 cm
Code 2538



SM-21V
Circle for suture in
multiple angles, with
velcro. Dim.: 9,0 x 1,5 cm
Code. 2539



SM-22V
Circle for suture in multiple
angles and needling, with velcro.
Dim.: 7,0 x 1,5 cm
Code 2540



SM-24V
Set for suture and knot
training, tube, base,
circle, and strings
Code 2066



ETX-11
Cul de Sac.
Dim.: 11,0 x 10,5 x 3,8 cm
Code 368

PEDIATRIC ORTHOPEDICS LEG SIMULATOR FOR GENU VALGUM PROCEDURES



Simulator for training in plaster cast

The SGV simulator was developed for the orthopedic training in newborns with Genu Valgum legs.

It allows education and training in correction procedures using plaster cast.

The surgical unit is limited to the infant leg and it allows multiple and repeated use



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



SGV-0
Reusable acrylic base
Code 2779



SGV-1
Surgical Unit
Code 2780

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SPINETRAINER FOR OPEN AND ENDOSCOPIC SPINE SURGERY



The Spine Trainer was designed and developed by PRODELPHUS for training in endoscopic and open spine surgery with all the equipment of a real surgery.

The pathologies to be offered can be customized. Cerebrospinal fluid circulation and access to nerve roots can be observed during practice, allowing extreme realism. Training in endoscopic or open surgeries for disc herniation, arthrodesis, needle punctures under radiological control, spinal and epidural punctures can be the subject of training. Sectional endoscopic access in multiple spaces on the left and/or right allows multiple pathologies, enabling multiple endoscopic or open surgeries for vertebral fixation and, among many other techniques, the management of complications such as root injuries, traumatic cerebrospinal fluid fistulas, facet stenosis with the presence of the medullary canal, etc.



Equipment similar to those used in a real surgery are needed for the procedures.

Its acrylic base houses a peristaltic pump that keeps the cerebrospinal fluid circulating.

Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



SPT-0
Acrylic base
Code 496



SPT-1
Surgical unit
Code 496



Shoulder Trainer Simulator for ARTHROSCOPY ARTHROPLASTY AND PROSTHESIS IMPLANTATION



The Shoulder Trainer features muscles, ligaments, bones and tendons positioned anatomically or, optionally, with lesions

The SHT simulator system, developed by Pro Delphus, has all the structures and landmarks necessary to allow shoulder endoscopy, arthroplasty in two anatomical positions at the surgeon's preference. The joint capsule is present and will be visible with irrigation or insufflation under low pressure.

Handling techniques with hooks, probes, sutures, application of anchors, shavings/burring are possible to be taught. Resistance to manipulation will be present and comparable to real tissue. Anatomic identification, triangulation, slap repairs, tenotomy/ rafia, tenodesis, Bankart surgery, rotator cuff, subacromial decompression and stabilization of the clavicular acromion joint are some of the possibilities of this simulator, besides the application of joint prosthesis.

The Shoulder Trainer also allows customization for various training needs or demonstration of prosthesis, orthosis, instruments and equipment



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



SHT-1A
Surgical unit for arthroscopy
Code 1543

SHT-1P
Surgical unit for
prosthesis application
Code 1544



SHT-0
Acrylic base for traction
and extension
Code 1542

KNEE TRAINER PORTABLE SIMULATOR FOR ARTHROSCOPY



Versatility and easy assembling are characteristics of the STANDARD base for the KNT-1B surgical unit of the KNT Pro Delphus system

The portable knee trainer and its STANDARD base are a versatile and cost-effective option. Made of acrylic and stainless steel, it is designed to offer easy attachment to the edge of a table or desk, facilitating training using less space than the anatomical model. This base can only be attached to the KNT-1B surgical unit (half thigh, knee and half leg) which has internal structures such as: cruciate ligaments, patella, bone cartilage and meniscus. It is indicated for teaching anatomy, while allowing training in triangulation, sutures and correction of meniscal pathologies using the arthro-shaver. (Requires liquid irrigation).



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



KNT-0P
Portable base
Code 2268



KNT-1B
Portable surgical unit
Code 2267

KNEE TRAINER - KNT SIMULATOR FOR ARTHROSCOPY, ARTHROPLASTY AND PROSTHESIS



The Knee Trainer provides an environment similar to a knee surgery, through endoscopic or open view, allowing the use of instruments and surgical training of extreme reality

The Pro Delphus Knee Trainer System - KNT was developed for training in knee surgery in two options: arthroscopy and prosthesis. It is possible to diagnose lesions and choose the best manner of managing complications.



The surgical unit for arthroscopy allows access through the anatomical portals under low pressure, irrigation (by gravity), instrumental triangulation, access to the menisci and its pathologies (suture, partial removal and use of shaver), and transplant surgery of cruciate ligaments with bone fixation. The model can be customized for other conditions such as hard knee, for example.

The surgical unit for arthroplasty, has the same external structure of the arthroscopy unit, having as a differential the possibility of application of joint prosthesis.

If there is interest only in arthroscopy, triangulation, anatomy demonstration, suture practice and use of the arthro-shaver, the best and most economical option is the use of the KNT-0B and KNT-1B portable models.

Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



KNT-0
Acrylic base
Code 490



KNT-1 / KNT-2
Surgical unit / foot
Code 468 and 2078



KNT-1B / KNT-0B
Portable surgical unit /
portable acrylic base
Code 2267 / 2268

HIP TRAINER SIMULATOR FOR OPEN AND ENDOSCOPIC TRAINING



The ideal solution for hip surgery training

The Hip Trainer was created to meet the needs of surgical education services, allowing the study of the best access and puncture techniques for teaching joint triangulation, hip stabilization treatment, use of anchors, sutures, fixators, prostheses and much more.

Considering the impossibility of using people or cadavers in the training phase of new surgeons, with the Hip Trainer the teaching options are multiple and placed in increasing levels of difficulty, also allowing open surgery after arthroscopy. The presence of skin, fat, muscles, nerves, vessels and bones allows for complete training with the real anatomy of hip and leg pathologies.

Multiple access options can be made during arthroscopy and prosthesis implantation, while the use of real instruments provides the ideal environment for teaching.



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



HIP-0
Acrylic support
Code. 3348



HIP-1
Surgical Unit
Code.3347

MAX-TRAUMA SIMULATOR FOR ORAL AND MAXILLOFACIAL SURGERY

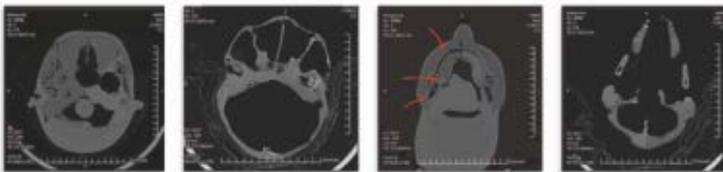


Get to know the anatomic and surgical realism of a MAX simulator

The Pro Delphus MAX simulator system, TRAUMATOLOGY model, was developed for training in orthognathic interventions and oral maxillofacial trauma. It is possible to understand the surgical landmarks of the face during correction surgeries.

The surgical units are composed of a male head with articulated oral cavity, palate, tongue, oropharynx, dental arch, lips, muscular structures, nerves, vessels, orbital cavity and eyes. Condylar, maxilla, mandible, zygomatic fractures, peri and infraorbital lesions among other fractures of the face and skull can be included.

It can be used in to teach the application of plates, screws and artificial tissues for support of the orbit. Regular instruments and synthesis artifacts of a real surgery are necessary, also allowing final radiographic control.



DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH

Components and spare parts:

4 different types of surgical units are available:



MAX-0T
Acrylic base
Code 1476



MAX-1T
Code 1464

Politrauma - Facial polytrauma with up to 7 fractures, for surgical correction of fractures or for orthognathic surgery

MAX-1TA
Code 1467

Anatomical - it does not have previous fractures, offering possibilities of teaching regular techniques of the proposed surgery

MAX-1TS
Code 1608

Subcondylar - Skull with mandible and bilateral subcondylar fracture

MAX-1TZ
Code 2150

Zygomatic - Skull with bilateral zygomatic fracture; fracture of the frontal sinus with mucosa; parasymphysis jaw fracture on the right side and subcondylar on the left

MAX-1TC
Code 2948

Customized Model - Request more information

ALICE SIMULATOR FOR LABOR



Discover the ALICE Birth Simulator and follow the possible maneuvers to achieve a good normal labor or conduct a dystocic birth

Discover the ALICE Birth Simulator and follow the possible maneuvers to achieve a good normal birth or conduct a dystocic birth. The company Pro Delphus, always focused on innovation, adds to the realism of its simulators the technology of the new SIMPEC software, which, together with the ALICE model, meets the needs of any obstetric service. The ALICE simulator has a computerized electromechanical system that allows the obstetrics teacher to choose several pre-programmed birth options. Using a tablet, the SIMPEC system controls everything that happens in the uterine dynamics and also allows the creation of different birth situations. The entire conduction of the cervicovaginal path can be modified by the student's intervention, in response to the programming determined by the teacher. Only obstetric maneuvers can result in a good conclusion of labor. The birth occurs with the baby's head coming out, with the remaining conduction resulting from the student's skill. If dystocic delivery is chosen, the life of the fetus will depend on the surgical decisions (forceps, vacuum, shoulder or head delivery, etc.), making ALICE the only simulator with such options worldwide.



- 01 complete female mannequin in obstetric position containing:
 - 01 removable anterior abdominal wall in Neoderma, detachable limbs and head,
 - 01 pelvis with bony parts and covered with soft parts in anatomical shape, 8 cm dilated cervix
- 03 babies for replacement
- 02 placentas with umbilical cord
- 02 external containers for artificial blood and meconium

ALICE SIMULATOR FOR LABOR



Back of the mannequin:

- 01 acrylic base with containment area for liquids with external drainage

Internal part of the mannequin's torso:

- 01 complete female mannequin in obstetric position containing
- Control of blood and meconium elimination
- 01 SIMPEC Bluetooth communication system control board
- 01 electromechanical box with 02 peristaltic pumps, one for artificial blood and the other for meconium
- 01 stainless steel shaft that provides propulsion and rotation of the baby's head
- 01 mechanical motor for propelling and rotating the baby

SIMPEC software for controlling vital functions and labor movements:

- Blood elimination
- Meconium elimination
- Baby pushing
- Contraction intensity and frequency
- Fetal heartbeat
- Rotation
- Presentation
- Position and any other parameters of labor dynamics
- Android tablet or cell phone for controlling the SIMPEC system, enabling communication interface between the software and the computerized electromechanical control unit

RHIMOT SIMULATOR FOR TRAINING IN RHINOPLASTY



Get to know the realism of the RHIMOT - Rhinoplasty Model Trainer

The RMT simulator, developed by the Pro Delphus Research Center, is a male mid-face with frontal region, nasal bones, septum, nasal cartilage and skin. It allows a variety of rhinoplasty techniques, including cleavage levels, bone fracture, relocation and molding of the nasal cartilage, cartilage implant, nose wing plasty and the final synthesis.

Procedures with the RMT-1 surgical unit require the use of the same apparatus and instruments of a regular surgery.

The model has an acrylic fixation base, which allows surgical procedures to be performed in the dorsal decubitus position.



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



RMT-0
Reusable acrylic base
Code 1422



RMT-1
Surgical unit
Code 1423

PREPARTUM CERVICAL CHECKS - EPP SIMULATOR FOR CERVICAL EVALUATIONS IN LABOR



Evaluate different presentations, learning how to identify the fetal positioning in a practical and fast way using the Pro Delphus Prepartum Simulators

Prepartum EPP stations are cervical examination modules, composed by an individual base made of acrylic and a vaginal shape block made of Neoderma. It allows prepartum cervical checks with bidigital palpation in several dilations.

These models can be customized with various fetal presentations, giving the students the opportunity to familiarize themselves with the birth canal and to make observations only possible in a patient in real labor

Fetal presentations can be customized per request according to what is wanted to be trained.



DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH

Product Description

EPP-0	Acrylic base	2594
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Obstetric units:

EPP-1	Hard and immature cervix, dilation less or equal to 1 cm	2579
EPP-2	Somewhat effaced cervix, 6 cm dilated, and Right Occiput Anterior (ROA) presentation	2580
EPP-3	Immature cervix, 5 cm dilated with pelvic podalic or breech presentation	2581
EPP-4	Effaced cervix, 9 cm dilated, and Left Occiput Transverse (LOT) presentation	2582
EPP-5	Effaced cervix, 7 cm dilated, and Right Occiput Transverse (ROT) presentation	2583
EPP-6	Somewhat effaced cervix, 5 cm dilated, and breech on Left Sacrum Anterior (LSA) presentation	2584

PREPARTUM CERVICAL CHECKS - EPP SIMULATOR FOR CERVICAL EVALUATIONS IN LABOR



Obstetric units:

EPP-7	Somewhat effaced cervix, 1 cm dilated	2585
EPP-8	Effaced cervix, 8 cm dilated, with a complete extension of the head or face presentation	2586
EPP-9	Immature cervix, 3 cm dilated, with umbilical cord prolapse	2587
EPP-10	Hard and immature cervix, dilation less or equal to 2 cm, and cephalic or occiput anterior presentation	2588
EPP-11	Effaced cervix, 8 cm dilated, and Left Occiput Posterior (LOP) presentation	2589
EPP-12	Effaced cervix, 9 cm dilated, and occiput posterior presentation	2590
EPP-13	Immature cervix, 5 cm dilated, and hand prolapse	2591
EPP-14	Effaced cervix, 9 cm dilated, and anterior asynclitism presentation	2592
EPP-15	Effaced cervix, 8 cm dilated, and frontal presentation	2593
EPP-16	Closed cervix	3340
EPP-17	Shoulder presentation 6 cm	3341
EPP-18	Male pelvic presentation 6 cm	3342
EPP-19	Female pelvic presentation 6 cm	3343
EPP-20	Effaced cervix, 7 cm dilated, and posterior asynclitism presentation	3344

ETP-LOUISE SIMULATOR FOR EGG COLLECTION AND EMBRYO IMPLANTATION



Technology and realism in learning artificial insemination procedures through the Pro Delphus ETP-LOUISE simulation system

The ETP-LOUISE simulator was developed for training in egg collection and embryo implantation, allowing an ultrasonic interface.

Its surgical unit is a block made of Neoderma, composed of the pelvic bones and soft tissues with vaginal cavity, uterus and ovaries, enabling egg collection by puncture inside the ovary, guided by endovaginal ultrasound.

When the eggs are completely removed, a new ovary can be replaced to continue the training. The procedure can also be complemented by intrauterine embryo implantation, also guided by ultrasound.

Note: If the liquid is reinjected during the completion of egg collection, the model can be used again for new punctures.



DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH

Components and spare parts:



ETP-OL
Acrylic support
Code 3301



LOUISE surgical unit

POST-PARTUM BLEEDING STATION SIMULATOR FOR DIAGNOSTIC AND INJURY CONTROL



Its realism challenges the student to overcome stress and intervene quickly to stop the bleeding and save the patient's life.

The Postpartum Treatment Station System (ETP) simulates a patient with an acute bleeding after normal delivery. A fluid pump is activated causing intense and continuous bleeding. The purpose of training is to find the source(s) of the bleeding, as well as to take the appropriate conducts for the identified lesion.

The ETP model can be customized to identify the following diagnoses:

- Uterine cervix rupture
- Bladder rupture
- Vaginal laceration and rupture
- Uterine rupture
- Retention of cotyledons and / or placenta

At the end, it's possible to quantify the lost blood volume, thus enabling to understand the success of the intervention.



DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



ETP-0

Reusable base made of fiberglass
Code 3043



ETP-1 / ETP-2P / ETP-3P

Surgical unit, placenta, and cotyledons
Code 1598/1600/1601



Peristaltic pump in-out

Marketed by



MULTIFUNCTIONAL SIMULATORS ETXY-P



The practicality of ETXY portable simulators for training in diagnostic and surgical hysteroscopy

Develop your skills in diagnostic hysteroscopy and practice surgical interventions such as myomectomy, polypectomy, ablation and more.

ETXY is a "portable" version of the same simulator with a fiberglass pelvis. Internally, the endoscopic images will be the same for both. It includes a simple acrylic base, a surgical unit for accommodating the artificial uterus made of Neoderma. It allows training in decision-making for multiple diagnoses, as well as performing endometrial resection with complications such as bleeding and uterine perforation. The portable ETXY-Hystero simulator is easy to assemble and allows from a simple speculum examination to the handling of the most complex diagnoses found inside the uterus. The variation of uterine models allows monopolar or bipolar energy (Neoderma uteruses).



The support structure of this simulator can also be used for speculum examinations, cervical pathologies, IUD application, teaching cervical dilation, uterine curettage, IUD implantation, as well as being used as a platform for urology and proctology, simply replacing models of surgical units. For more information, please contact our sales team.

Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



ETXY-0P

Portable stainless steel support
Code 528



ETXY-1

Vagina for resectoscopy (short)
Code 374



ETXY-2

For vagino hysteroscopy (long)
Code 375



ETH10/2G

Artificial bladder
Code 378



ETH7

Artificial uterus for diagnosis
and surgery (Various
pathologies available)



ETH8

Artificial uterus for ablation
(Various pathologies available)
Bipolar energy



ETH9

Artificial uterus for resection with
biological implant- can be used
with Monopolar or bipolar energy

SIMULATOR FOR TRAINING OF PREVIEW AND IDENTIFICATION OF UTERINE PATHOLOGIES



Ideal for both classes and demonstrations, the Pro Delphus resinated artificial uterus allows the visualization of the most diverse uterine pathologies with realism and durability. Its life-size provides the students familiarity with each situation for fast diagnosis



DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH

The models are presented in frontal plane and resinated in order to provide the visualization of intra-uterine pathologies, as per request. Its high durability allows it to be manipulated with no risk of being compromised.

PRODUCT DESCRIPTION

CODE

ETH7R-ADH/2G	Resinated uterus: adenomiosis	2688
ETH7R-HVR/2G	Resinated uterus: hyperplasia with regular vascularization	2689
ETH7R-HYP/3G	Resinated uterus: endometrial hyperplasia with polyps	2690
ETH7R-ADC/3G	Resinated uterus: endometrial hyperplasia - adenocarcinoma	2691
ETH7R-PCPN/2G	Resinated uterus: one polyp with vegetation and one normal	2692
ETH7R-GESTP/2G	Resinated uterus: pregnancy with polyps	2693
ETH7R-PS/3G	Resinated uterus: pink polyp and septum	2694
ETH7R-ADM	Resinated uterus: adenomiosis	2695
ETH7R-MET/2G	Resinated uterus: osseous metaplasia	2696
ETH7R-MT1P/2G	Resinated uterus: myoma type "1" and polyp	2697
ETH7R-PS/2G	Resinated uterus: red polyp and septum	2698
ETH7R-S/2G	Resinated uterus: septum	2699
ETH7R-2P/2G	Resinated uterus: two polyps	2700
ETH7R-UT/2G	Resinated uterus: T-shaped	2701
ETH7R-MT0/2G	Resinated uterus: myoma type "0"	2702
ETH7R-MT0T1/2G	Resinated uterus: myoma type "0" and "1"	2703
ETH7R-MT0T2/2G	Resinated uterus: myoma type "0" and "2"	2704
ETH7R-MT1T2/2G	Resinated uterus: myoma type "1" and "2"	2705
ETH7R-ADC/2G	Resinated uterus: adenocarcinoma	2706
ETH7R-HYP/2G	Resinated uterus: endometrial hyperplasia	2707

SIMULATOR FOR TRAINING OF PREVIEW AND IDENTIFICATION OF UTERINE PATHOLOGIES



PRODUCT DESCRIPTION

CODE

ETH7R-4P/2G	Resinated uterus: four polyps	2708
ETH7R-GEST/2G	Resinated uterus: embryo implantation process	2709
ETH7R-AM/2G	Resinated uterus: tortuous cervix 1	2710
ETH7R-AM/3G	Resinated uterus: tortuous cervix 2	2711
ETH7R-PA/2G	Resinated uterus: polyp and adenomiosis	2712
ETH7R/2G	Resinated uterus without pathology	2713
ETH7R-EX	Resinated uterus: externalized endocervical polyp	2714
ETH7R-CE	Resinated uterus: cervical ectropion	2715
ETH7R-PV	Resinated uterus: endocervical vegetative polyp and catheter	2716
ETH7R-CC	Resinated uterus: cervical cancer with catheter	2717
ETH7R-BC	Resinated uterus: bicornuate	2718
ETH7R-DD	Resinated uterus: didelphic	2719
ETH7R-MS3	Resinated uterus: submucous myoma	2720
ETH7R-PP	Resinated uterus: pedunculated polyp	2721
ETH7R-TO	Resinated uterus: 7 cm unilateral ovary tumor	2730
ETH7R-M5O	Resinated uterus: 5 cm myoma and normal ovary	2731
ETH7R-M3O	Resinated uterus: 3 cm myoma and normal ovary	2732
ETH7R-MIO	Resinated uterus: isthmic myomas and normal ovary	2733
ETH7R-GEST12	Resinated uterus: 12 cm pregnant	2734
ETH7R-N	Resinated uterus: normal	2735
ETH7R-OBTUB/2G	Resinated uterus: proximal and open tubal obstruction	2762
ETH7R-RP	Resinated uterus: placental residues	2763

HYSTEROSCOPIC ETXY SIMULATOR FOR DIAGNOSTIC AND SURGICAL PROCEDURES



The practicality of the multifunctional ETXY anatomical base for training in diagnostic and surgical hysteroscopy, urology and proctology procedures

Develop your skills in diagnostic hysteroscopy and practice surgical interventions such as myomectomy, polypectomy, ablation and much more. The model comes with artificial uteruses made of Neoderma, with pathologies.

It allows training in the choice of conduct in all hysteroscopic pathologies, in addition to allowing the performance of surgical procedures with energy. Endometrial resection and its complications such as bleeding and uterine perforation are training subjects.

The ETXY-Hystero simulator is easy to assemble, allowing from a simple speculum examination to the most complicated diagnosis found inside an uterus. The multifunctional base of this simulator can also be used for proctology and endourology, with the exchange of its surgical units made of Neoderma. Monopolar energy, although possible, has limited application, but bipolar energy can be used in any pathologies of the uterine cavity.

Note: It is necessary to inform the pathology and energy that you intend to use



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



ETXY-0
Reusable anatomical base,
made of fiberglass
Code 373



ETXY-1
Artificial short vagina for
resectoscopy
Code 374



ETXY-2
Artificial long vagina
for vaginohysteroscopy
Code 375

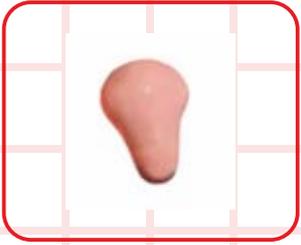


ETXY-10/2G
Artificial bladder-optional
Code 378

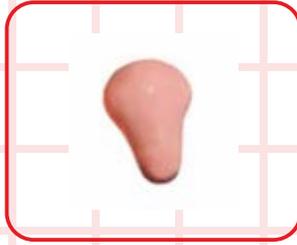
HYSTEROSCOPIC ETXY SIMULATOR FOR DIAGNOSTIC AND SURGICAL PROCEDURES



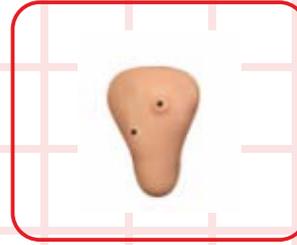
Components and spare parts:



ETH 7
Artificial uterus for
diagnosis (Various
pathologies to chose from)



ETH 8
Artificial uterus for ablation
(Various pathologies to
chose from)



ETH 9
Artificial uterus for resection
with biological implant

UTERUS - for use with scissors and grasper/ diagnosys only

SKU PRODUCT

CODE

ETH7-GEST/2G	Artificial uterus: embryo implantation process - made of Neoderma®	379
ETH7-AM/2G	Artificial uterus: anatomic model with tortuous cervix, type 1 - made of Neoderma®	380
ETH7-2P/2G	Artificial uterus: two polyps - made of Neoderma®	381
ETH7-4P/2G	Artificial uterus: four polyps - made of Neoderma®	382
ETH7-PS/2G	Artificial uterus: one polyp and septum - made of Neoderma®	383
ETH7-S/2G	Artificial uterus: septum - made of Neoderma®	384
ETH7-ADH/2G	Artificial uterus: endometrial adhesions - made of Neoderma®	385
ETH7-MT0T1/2G	Artificial uterus: myomas type "0" (zero) and "1" (one) - made of Neoderma®	386
ETH7-MT1T2/2G	Artificial uterus: myomas type "1" (one) and "2" (two) - made of Neoderma®	387
ETH7-MET/2G	Artificial uterus: endometrial osseous metaplasia - made of Neoderma®	388
ETH7-HYP/2G	Artificial uterus: endometrial hyperplasia - made of Neoderma®	389
ETH7-ADM/2G	Artificial uterus: adenomyosis - made of Neoderma®	390
ETH7-ADC/2G	Artificial uterus: adenocarcinoma - made of Neoderma®	391
ETH7/2G	Artificial uterus: normal, no pathologies - made of Neoderma®	792
ETH7-UT/2G	Artificial uterus: uterine malformation (uterus in "T") - made of Neoderma®	1358
ETH7-MT0/2G	Artificial uterus: myoma type "0" (zero) - made of Neoderma®	1359
ETH7-ADC/3G	Artificial uterus: endometrial hyperplasia, adenocarcinoma - made of Neoderma®	1363
ETH7-HYP/3G	Artificial uterus: endometrial hyperplasia with polyps - made of Neoderma®	1365
ETH7-OBTUB/2G	Artificial uterus: proximal and open tubal obstruction - made of Neoderma®	1370
ETH7-HVR/2G	Artificial uterus: endometrial hyperplasia with regular vascularization - made of Neoderma®	1371
ETH7-PCPN/2G	Artificial uterus: two polyps, one cancerous and one normal - made of Neoderma®	1372

HYSTEROSCOPIC ETXY SIMULATOR FOR DIAGNOSTIC AND SURGICAL PROCEDURES



ETH7-GESTP/2G	Artificial uterus: polyp during pregnancy - made of Neoderma®	1373
ETH7-MT1P/2G	Artificial uterus: myoma type "1" (one) and polyp - made of Neoderma®	1374
ETH7-AM/3G	Artificial uterus: anatomic model with tortous cervix, type 2 - made of Neoderma®	1401
ETH7-CE	Artificial uterus: cervical ectropion - made of Neoderma®	1436
ETH7-PS/3G	Artificial uterus: pink polyp and septum - made of Neoderma®	1540
ETH7-MT0T2/2G	Artificial uterus: myomas type "0" (zero) and "2" (two) - made of Neoderma®	2077
ETH7-PA	Artificial uterus: with polyp and adenomyosis - made of Neoderma®	2265
ETH7-RP	Artificial uterus: placental residues - made of Neoderma®	2266
ETH7-PV	Artificial uterus: cancerous endocervical polyp, with catheter - made of Neoderma®	2501
ETH7-EX	Artificial uterus: externalized endocervical polyp - made of Neoderma®	2566
ETH7-CC	Artificial uterus: cervical cancer, with catheter - made of Neoderma®	2574
ETH7-DD	Artificial uterus: didelphys - made of Neoderma®	3239
ETH7-PP	Artificial uterus: pedunculated polyp - made of Neoderma®	

UTERUS - for resection

SKU PRODUCT

CODE

ETH8/2G	Artificial Uterus for bipolar resections - made of Neoderma®	392
ETH8-M/2G	Artificial Uterus with myoma, for bipolar resections only - made of Neoderma®	1377
ETH8-1P/2G	Artificial Uterus with 1 pediculated polyp, for bipolar resections - made of Neoderma®	2411
ETH8-2P/2G	Artificial Uterus with 2 polyps: 1 pediculated and 1 sessile, for bipolar resections - made of Neoderma®	2412
ETH8-2PG/2G	Artificial Uterus with 2 large sessile polyps, for bipolar resections - made of Neoderma®	2596
ETH8-3P/2G	Artificial Uterus with 3 polyps: 1 pediculated and 2 sessile, for bipolar resections - made of Neoderma®	2413
ETH8-4P/2G	Artificial Uterus with 4 polyps, for bipolar resections only - made of Neoderma®	1541
ETH8-1PM/2G	Artificial Uterus with 1 large polyp and myoma, for bipolar resections only - made of Neoderma®	2595
ETH9-RB1	Artificial Uterus with 2 holes in its body, for resection with biological implant. Monopolar or bipolar, myomectomy and polypectomy - made of Neoderma®	393
ETH9-RB2	Artificial Uterus with 1 hole in its body and 1 hole in its fundus, for resection with biological implant. Monopolar or bipolar, myomectomy and polypectomy - made of Neoderma®	1451

MASTOTRAINER SIMULATOR FOR BREAST SURGICAL INTERVENTIONS



Examinations and surgical procedures in a single simulator, customizable for various pathologies and sizes.

The Mastotrainer System was designed to provide multiple opportunities for clinical, surgical training. It is available in four options of breast shapes and sizes, allowing dozens of customizations. It comes with an acrylic base and unit positioned in a system of shock absorbers, allowing movement and view in an elevated position.



Possible surgical maneuvers:

- De-epidermalization
- Identification of surgical cleavage points Mastopexy
- Prosthesis application (infra and supra muscular)
- Mastoplasty with sutures
- Correction of asymmetry
- Oncoplastic procedures
- USG-guided punctures and more.

Customization options:

- Cysts
- Fibroadenomas
- Carcinomas
- Lymph nodes

Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



MMT-0
Mastotrainer acrylic base
Code 1632



MMT-1PA
Small and asymmetrical breasts surgical unit
Code 1633



MMT-1MA
Medium and asymmetrical breasts surgical unit
Code 2372



MMT-1GG
Large breasts surgical unit
Code 2452



MMT-1GP
Large with pronounced ptosis surgical unit
Code 2071



MMT-CASE
Breast Case
Code 1641

ADAM - ETXY URO-EP SIMULATOR FOR PROSTATIC EXAMINATION



The practicality of ETXY anatomical supports for training in Urology

The URO-EP simulator allows a digital rectal examination that is very similar to the real procedure. With six different types of prostate, it allows the student to feel variations of a normal prostate, an enlarged prostate, one with or without nodules and even a prostate completely compromised by a tumor. In addition to the realism offered by this Biomed simulator, it also provides an ethical, safe and effective environment for developing tactile skills in this type of examination.



NOTE:

The multifunctional base of this simulator can also be used for hysteroscopy and proctology, with the exchange of its surgical units made of Neoderma.

Components and spare parts:



ETXY-0
Multifunctional
anatomic base
Code. 373



ETXY-0P
Multifunctional
anatomic base
Code. 528



ETXY-7B
Urinary system
with bladder
Code. 400



ETXY-9A
Uro support base
Code. 1413



ETXY-9B
Kit with 6 different
prostate pathologies
Code. 1414

Marketed by



ADAM ENDOUROLOGY - ETXY SIMULATOR FOR UROLOGIC MULTIPLE PROCEDURES



The practicality of the ETXY anatomical base for training in endourology

Acquire skills in prostate section and adenoma enucleation, removal of stones, polyps and tumors in a simple and realistic way. Neoderma allows the use of bipolar energy and laser interventions in the urethra, prostate, bladder, ureter and kidney, just like a real patient. Also learn the process of applying the double "J" and much more in this exclusive simulator on the market.

Note: Resections performed in Neoderma only work with bipolar energy in the presence of saline solution, and must be requested for this purpose.

Always inform your need for training so that we can indicate the most appropriate simulator

The multifunctional base of this simulator can also be used for hysteroscopy and proctology, with the exchange of its surgical units made of Neoderma.



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



ETXY-0

Multifunctional reusable anatomical base, made of fiber glass
Code373



ETXY-5A

Support for the surgical unit of the urinary system with bladder and kidneys
Code395



ETXY-5B

Surgical unit of the urinary system with bladder and kidneys
Code396



ETXY-7A

Support for the surgical unit of the urinary system with bladder
Code399



ETXY-7B

Surgical unit of the urinary system with bladder
Code400

Marketed by



PROCOTRAINER - ETXY PROCOTO SIMULATOR FOR TRANSANAL ENDOSCOPIC OPERATION - TEO



The practicality of the ETXY multifunctional anatomic base for training in proctology

With the PROCTOTRAINER, the approach and removal of rectal tumors gains insights never seen before. Treat fissures and fistulas using real instruments and identify cleavage planes using the endoscopic method. Perform surgeries using TEO (Transanal Endoscopic Operation), where cleavage levels can be dissected between the tumor and the bowel wall. Our technology provides safe, realistic and innovative training for physicians and students..

The multifunctional base of this simulator can also be used for hysteroscopy and endourology, with the exchange of its surgical units made of Neoderma.



Components and spare parts:

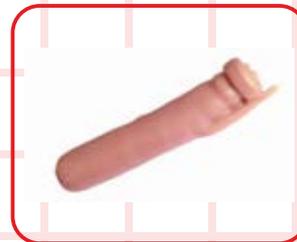
DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



ETXY-0
Reusable anatomical base, made of fiberglass
Code 373



ETXY-8A
Artificial vagina for surgical unit support
Code 499



ETXY-8B
Surgical unit for diagnosis of pathologies

Optional pathologies:

ETXY-88	Rectum without pathologies	2774
ETXY-88F	Rectum with 1 fistula, 2 polyps, 2 diverticula, and hemorrhoids	1530
ETXY-880	Rectum with 2 polyps, 2 diverticula, and hemorrhoids	500
ETXY-88P3	Rectum with 3 polyps	2373
ETXY-88F1	Rectum with 1 fistula	1532
ETXY-88F2	Rectum with 2 fistulas	1533
ETXY-88F3	Rectum with 3 fistulas	1534
ETXY-88F1H	Rectum with 1 fistula, and hemorrhoids	1535
ETXY-88F2H	Rectum with 2 fistulas, and hemorrhoids	1536
ETXY-88F3H	Rectum with 3 fistulas, and hemorrhoids	1537



SIMULATOR FOR LAPAROTOMIC AND LAPAROSCOPIC SUTURES NEO-KNOT



The practicality of the ETXY anatomical base for training in endourology

Acquire skills in prostate resection, removal of stones, polyps and tumors in a simple and realistic way. Neoderma allows the use of interventions with bipolar energy and laser just like a real patient. Also learn the process of applying the double "J" and much more.

Note: For resections with bipolar energy, the use of saline solution is mandatory, and models must be requested for this purpose. Training needs should always be informed so that we can recommend the most suitable simulator.



The multifunctional base of this simulator can also be used for hysteroscopy and proctology, with the exchange of its surgical units made of Neoderma.

Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



ETXY-0
Reusable anatomical base,
made of fiberglass
Code 373



ETXY-0P
Portable support in
acrylic and stainless steel
Code 528



ETXY-5B
Surgical unit of the
urinary system with
bladder and kidneys
Code 396



ETXY-7B
Surgical unit of the urinary
system with penis, bladder
for prostate resection
Code 400



ETXY-7C
Urinary system surgical unit
with penis, bladder and
prostatic adenoma
for enucleation
Code 3405



ETXY-5A
Support for the surgical
unit of the urinary system
Code 395



ETXY-7A
Support for the surgical
unit of the urinary system
Code 395

SIMULATOR FOR TRAINING IN SINUS AND SKULL BASE ENDOSCOPIC SURGERY

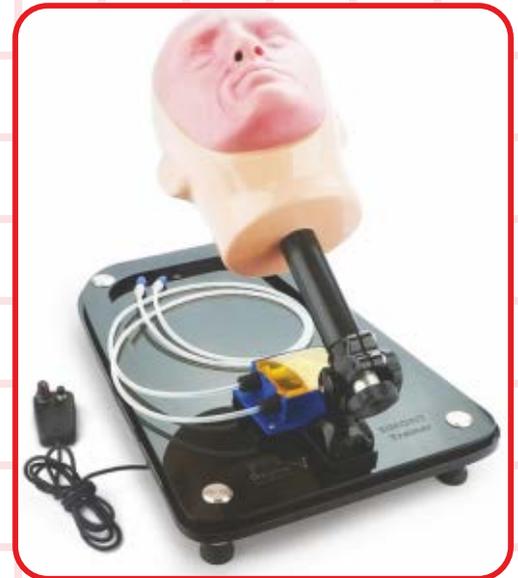


The SIMONT(SOT) simulator allows endoscopic sinus surgery from a simple SOT ostium opening up to the access of the skull base

The SIMONT simulator (Sinus Model Otorhino Neuro Trainer) was developed by Pro Delphus with the anatomy of the face sinuses, turbinates, nasal septum, vessels, including sella turcica with adenoma, among other structures. Specific pathologies such as cysts, tumors, and tissues similar to inflammatory processes are inserted on the model to make the intervention even more realistic, allowing therapeutic behaviors from the simplest flap up to the opening of the sella turcica and removal of the pituitary adenoma.

Several surgeries can be performed on SIMONT, such as:

- Turbinectomies, removal of the uncinate process;
- Enlargement of the maxillary ostium;
- Drainage of maxillary cysts;
- Removal of the ethmoidal bull;
- Periorbital approach by the lamina papyracea;
- Removal of agger nasi and frontal opening;
- Abscess drainage;
- Identification and dissection of the artery and the sphenopalatine orifice;
- Training in several models of septal flap;
- Identification and expansion of the sphenoid ostium for allow entry into the sphenoid;
- Removal of the intersfenoidal septum;
- Opening of the sella turcica;
- Removal of pituitary adenoma and craniopharyngioma.



DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH

Components and spare parts:



SOT-0
Acrylic base
Code 394

SOT-3
Optional portable
base
Code 412



SOT-1ENT
Code 409
Anatomic Model
surgical unit
For studies and
anatomical dissection

SOT-1AM
Code 408
Sinus Pathologies
surgical unit
Dissection of sinus
pathologies

SOT-1SB
Code 406
Sinus Pathologies
+ Skull
Base surgical unit
Endoscopic access
to the skull base



SOT-2
Surgical unit holder
Code 411

Marketed by



SIM-L SIMULATOR FOR LAPAROSCOPY WITH INSUFLATION



Experience the SIM-L system, designed by Pro Delphus for realistic training in laparoscopy

Practice laparoscopic procedures on the SIM-L standard simulator, which allows pneumoperitoneum by introducing Veress needles, surgical punctures at various access angles of the pelvis and the practice of suturing and endocavitary laparoscopic dissection, similar to the difficulties of real surgery.

It can be customized to provide procedural training for gynecologists, surgeons, urologists and fetoscopist, where a meningocele can be subject of training. A laparoscopic tower and specific instrumentals are required for training with the standard SIM-L simulator.

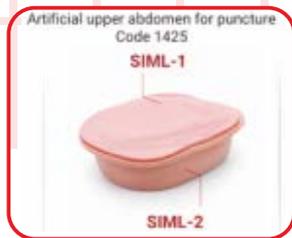


Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



SML-1
Acrylic base
Code 1424



SML-2
Artificial lower abdomen
Code 2256



SML-3
Insufflation pump with
pressure control
Code 2257



ETR-1
Suture set, basic level
Code 417

LARS LARS XY SIMULATOR FOR ROBOTIC LAPAROSCOPY



The LARS Simulator, from Pro Delphus, was designed to offer training solutions for robotic and laparoscopic surgery.

Made of surgical Neoderma, a revolutionary material from Pro Delphus, the LARS simulator has internal structures coated with Neoderma and no rigid parts, only the bones, anatomically positioned. The LARS model has a rich internal anatomy, customizable for men or women. Its base can be positioned in different ways, facilitating the necessary surgical access.

It allows the exchange of anatomical systems, such as: liver with bile ducts; spleen; intestines; male to female pelvis, in addition to the possibility of multiple surgeries in various specialties through laparoscopic or robotic access. The way it is made also does not allow errors detected by the robotic arm when coming into contact with rigid parts of the simulator, as it will behave as in a real surgery



DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH

GENERAL SURGERY

Cholecystectomy, adhesion lysis, removal of liver tumors and cysts, appendectomy, gastroplasty and bariatric surgeries in various techniques, perforated ulcer, omentectomy, intestinal sutures with tumor removal, splenectomy, pancreatic tumor surgery, epigastric hernia surgery, inguinal hernioplasty, nephrectomy, among many others.

GENITAL TRACT

Gynecology and urology- Myomectomy, hysterectomy, adhesion lysis, endometriosis surgery, ovarian endometriomas, ovarian cysts, salpingolysis, salpingectomy, bladder surgeries, ectopic pregnancy surgery, cystectomies with sutures, etc.

CUSTOMIZATION

The LARS model can be requested with several pathological options. Before purchasing it, inform your needs to the Pro Delphus team, who will be available to offer solutions for your training.

LARS LARS XY SIMULATOR FOR ROBOTIC LAPAROSCOPY



LARS XY SIMULATOR FOR ROBOTIC LAPAROSCOPY (STANDARD) - 3699

COMPONENTS

LARS XY-0: Acrylic base

LARS XY-1: Complete abdominal surgical unit with organs and intrapelvic unit (male or female)

LARS XY-2: External unit of upper abdomen

LARS XY-3: External unit of lower abdomen

LARS XY-4: Anterior abdominal wall with E.V.A



Spare parts and components (to choose)

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



LARS XY-0
Acrylic support
Code 3704



LARS XY-1A
Complete abdominal
surgical unit with organs
Code 3832



LARS XY-2
External unit for
upper abdomen
Code 3705



LARS XY-3
External unit for
lower abdomen
Code 3706



LARS XY-4
Abdominal wall
with E.V.A
Code 3700



LARS XY-5
Female intrapelvic
surgical unit
Code 3702

LARS LARS XY SIMULATOR FOR ROBOTIC LAPAROSCOPY



Spare parts and components (to choose)



LARS XY-6
Male intrapelvic surgical
unit without penis
Code 3703



LARS XY-7
A surgical unit with
liver and the biliary tract
Code 3707



LARS XY-14
Male intrapelvic
surgical unit with penis
Code 3731



LARS CASE
Optional polycarbonate case
Code 3701

HERNIOTRAINER- HRT SIMULATOR FOR INGUINAL HERNIOPLASTY



Herniotrainer - An innovative training system that can be used for anatomical teaching of the hernial processes or for teaching of hernioplasty by laparoscopy

The Herniotrainer (HRT) is a simulator that has a pelvic shape, in which is possible to perform retroperitoneal dissection and identification of structures related to the correction of inguinal hernias. The HRT offers indirect and direct options.

Through this training it is possible to identify bladder, vessels and inguinal structures such as: spermatic canal, cooper ligament, ureter, iliac vessels, genitofemoral nerve, inferior epigastric vessels, ileopubic tract, and muscles.

After its use and after removing the peritoneum of the pelvis with hernia correction, the surgical unit made of Neoderma allows reutilization and recycling, making the training more economical.

The HRT system can be connected to the Pro Delphus NEO-KNOT and some laparoscopic training boxes, allowing the use of forceps, real laparoscopic optics, digital camera with computer or even tablets.



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



HRT-1

Hernioplasty surgical unit
Code. 2722

SIMULATOR FOR SIALENDOSCOPY TRAINING



Get to know the anatomic and surgical realism of a MAX-SIALO simulator

The MAX-SIALO is one of the Pro Delphus MAX system of simulators, developed for training in endoscopic interventions of the salivary ducts.

The surgical units are composed of a half male head with articulated oral cavity, palate, tongue, oropharynx, dental arch, lips, orbital cavity and eyes. It has skin, subcutaneous cellular tissue and muscles. The salivary ducts and their orifices allow the introduction of the sialoendoscope between the various arboriform bifurcations of the ducts. The use of baskets and laser provides a realistic training similar to the ones performed in living beings. It also allows radiographic control.



Reusable base (MAX-0S): Made of acrylic to support the surgical unit

Surgical Unit (MAX-1S): Provides internal anatomy of the ducts of the salivary gland with calculus, and training is done through the use of a sialoendoscope.

After each removal of duct stones, it is possible to relocate the stones retrogradely with the sialoscope to provide new training.

Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



MAX-SIALO
Complete Simulator



MAX-0S
Acrylic base
Code 1475



MAX-1S
Surgical unit
Code 1466

SIMULATOR FOR LAPAROTOMIC AND LAPAROSCOPIC SUTURES NEO-KNOT



Innovative and unique Pro Delphus system that provides functional suture training through a new concept of Realistic Modulated Surgical Simulation

The NEO-KNOT provides training from a simple suture to the complexity of a laparoscopic suture. Its versatility added to the multiple Pro Delphus suture models (SMT and ETR), allow several options that complete one another:

1. Laparotomic Sutures:

A multifunctional acrylic SMT-0 velcro-coated stand acts as a base for easy attachment of suture models anywhere on its surface. The Pro Delphus suture models offer any type of laparotomic suture through Basic (ETR-1V), Advanced (ETR-2V), Master (ETR-3V) and Top Master (ETR-4V) suture kits. There are also other models such as the Suture Disc, Dissection Disc and the Suture Globe.

2. Laparoscopic Sutures with camera and surgical optics:

With the use of SMT-0L2 towers in SMT-0 multifunctional support, Neo-Knot becomes a unique model for laparoscopic suture training. The two tweezer towers and the camera tower can be moved in various positions of the support, giving the trainee the possibility of simulating various laparoscopic punctures, similar to an actual abdominal wall (The simulator does not include a needle holder).

The comfort of the vertical adjustment of the towers, and the rotation of the fixation element of the graspers, offer the similar sensation of being operating in a real abdominal wall, offering angulations and similar movements to the reality. Through the integration of simulators' system Pro Delphus multiply the options of difficulties for those who want training in this type of exercise.

3. Laparoscopic Suture with USB camera:

The same training described in item 2 can also use the option of a digital camera (SMT-0L3), with Small Delay, offering the opportunity to use your own computer or a TV with USB input as a monitor, bringing to the home of the training the possibility of practicing laparoscopic suture.

4. SMT-0L6 stand for tablets and smartphones:

The SMT-0L6 adjustable stand attaches to the SMT-0 base allowing a Tablet/Smartphone of any size to be positioned above the Neo-Knot offering virtual imaging, while the laparoscopic dissection or suture procedure occurs. If you have an Apple TV, you can pair it with an iPad or iPhone, or if it's a SmartTV, an android smartphone can be mirrored via the application, producing an enlarged image on your television with high definition, creating your training environment.



DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



Marketed by



SIMULATOR FOR LAPAROTOMIC AND LAPAROSCOPIC SUTURES NEO-KNOT



Components and spare parts:



ETR-1V
Suture set, Basic level.
With velcro.
Code 2532



ETR-2V
Suture set, Advanced level.
With velcro.
Code 2542



ETR-3V
Suture set, Master level. With velcro.
Code 2534



ETR-4V
Suture set, Top Master level. With velcro.
Code 2535



SMT-0
Multifunctional base,
made of acrylic.
Code 2521



SMT-0L1
Complete set for
laparoscopy.
Code 2522



SMT-0L2
Upgrade set for
laparoscopy.
Code 2397



SMT-0L3
USB camera with stand.
(HUE HD)
Code 455



SMT-0L4
Camera tower.
Code 458



SMT-0L5
Grasper towers.
Code 456



SMT-0L6
Stand for
tablet/smarthphone.
Code 2776

JULIE SIMULATOR FOR TEACHING FACE ANATOMY AND REJUVENATION TECHNIQUES



Julie was developed by Pro Delphus to present the anatomy of the face in a clear and explanatory way on how to proceed with the application of botulinum toxin, injectable dermal fillers, thread lifts, laser treatments and so much more. Anatomical landmarks are explicit on the left side of the face, where the nerves, vessels and muscles present opportunities for any customized treatments and demonstrations. A mask containing fat of the left side of a young adult woman's face enables comparison of the shortage of this tissue with another mask, comparing it to the fat tissue of an elderly woman. The right side allows real palpation of a face coated with fat tissue and skin.

Julie was not designed to present results to the treatments. Its use is restricted to the anatomical teaching of the ideal points of application of each product, as well as demonstration of the risks factors.



The Complete Julie Simulators Include:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



JLE-0/JLE-1

Anatomical unit with acrylic support
Code. 3242/ 2428



JLE-2

Mask with cushions of facial fat of a young adult
Code. 2432



JLE-3

Mask with cushions of facial fat from a Mature Woman
Code. 2449



JLE-4

Pointing Stick in Acrylic
Code. 2456



CASE 2

Transport Case
Code. 2427

SIMULATOR FOR PEDIATRIC CRANIOSYNOSTOSIS



The CEB simulator was designed by Pro Delphus for realistic training in craniosynostosis surgeries

The scaphocephaly in the model can be corrected by either endoscopic or open procedures, and, when irrigated, it allows bleeding. It is possible to identify the sagittal superior venous sinus in its anatomy, which makes the procedure similar to that of a real surgery.

The bony part can be reduced and the use of plates and screws allows the same techniques of surgery in humans.

After the procedure is done, the CEB surgical unit (head) can be replaced, and its base (body) is also compatible with the Baby Endoscopic Neuro system (NEB).



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



PBS-0
Reusable anatomic body
(6 months old infant)
Code 2476



CEB-1
Surgical unit
Code 2475



TRAINING IN PEDIATRIC NEUROENDOSCOPIC SURGERY



Pro Delphus advances in realism in neuroendoscopy

The Pediatric Neuroendoscopy Simulator (NEB) is part of the Pediatric Baby Simulator (PBS) system which was developed and manufactured by Pro Delphus to offer realism in pediatric neuroendoscopy procedures.

Its surgical unit is a replaceable and customizable head, with face and hydrocephalic skull, containing in its interior dilated cerebral ventricles. A catheter controls the outflow of the air, while another allows the filling by liquid injection using a syringe and saline solution, until the dilation of the skull is perceptible.

In this model, it's necessary to perform a craniotomy, allowing the insertion of a neuroendoscope, optionally, in the left or right lateral ventricle.

Internal pathologies can be offered in a customized way, allowing the physician in training to identify structures such as: lateral ventricles, third ventricle, fourth ventricle, striated artery of the thalamus, septal vein, dilated Monro orifice, pineal, chiasm, Sylvius aqueduct, mammillary bodies, tuber cinereum, interpeduncular fossa and basilar artery, among other structures.

The NEB simulator provides surgical access to tumors such as colloid cysts gliomas, cysticerci and meningiomas, among others. It is also possible to perform cauterization of the choroid plexus, removal of tumors and ventriculostomy. Bleeding is present in the approach to tumors.



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



PBS-0
Reusable anatomic body
(6 months old infant)
Code 2476



NEB-1
Infant neuroendoscopic
surgical unit
Code 2474

SIMONT NEUROTRAINER SIMULATOR FOR NEUROENDOSCOPIC SURGERIES



The **SIMONT NEUROTRAINER** is the only realistic simulator in the world to allow neuroendoscopic procedures on the obstructive pathologies of the cerebral ventricles

The SIMONT Neuro Trainer system (SNT) consists of a fixed support which includes, inside its skull cap, a surgical unit of a brain that allows the introduction of a neuroendoscope. The structure of its base allows elevation and rotation of the head in various positions.

The training consists in identifying the lesions and proceed with techniques, allowing the choice of the instruments to be used.

The tumors are similar to gliomas, neuropharyngeal tumors, cysticerci, colloid cysts, and many others. The goal is to remove these tumors as well as to perform a ventriculostomy with a fogarty expander catheter.

It is also possible to identify important vessels such as the septa artery, thalamus striatum and basilar, among others. A peristaltic pump allows the filling of the ventricles under pressure, simulating a hydrocephalic pathology.

The SNT simulator allows contact bleeding during tumor removal and ventriculostomy, which makes it even more realistic, as well as the use of bipolar coagulation for the choroid plexus, when using saline solution.



Components and spare parts:

DIDACTIC MATERIAL FOR USE IN TEACHING AND RESEARCH



SOT-0
Acrylic base
Code 394



SNT-1
Surgical unit
Code 413



SNT-2
Support with face
Code 415



SNT-3
Skull cap
Code 416

pro
delphus
Surgical Simulators
MADE IN BRAZIL

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+91 98202 35370 | +91 99011 58197



info@biomedhealthtech.com



www.biomedhealthtech.com