

# Product Catalog

## 2024



[www.SynDaver.com](http://www.SynDaver.com)

(813) 600-5530

Synthetic Cadavers - Task Trainers - Anatomy Models

## About SynDaver:

SynDaver is the world's leading manufacturer of bio-similar, high-fidelity synthetic human and animal models used in anatomy education, surgical simulation and skills training, medical device testing, and consumer product evaluation. We hold over 16 patents on the materials, processes and SynTissue related products. Work on this technology was initiated at the University of Florida in 1993. The materials developed as a result of these studies are now used extensively in the industry as simple vein and artery analogs. SynDaver was founded in 2004 to commercialize a novel system of synthetic human body parts for the medical device industry. Today, our sophisticated models replicate human and animal anatomy in great detail, including individual muscles, tendons, veins, arteries, nerves and organs—all made from complex composites that mimic the properties of the discrete living tissues they represent. Made from water, salts and fibers, our tissues have been validated to replicate the mechanical, chemical, thermal and dielectric properties of the relevant living tissue. Our products are used in such diverse fields as education, surgical training, medical device testing and validation, and consumer products evaluation.

### Ordering Information:

**Phone:** (813) 600-5530

**Email:** [inquiries@SynDaver.com](mailto:inquiries@SynDaver.com)

**Order Online at:** [www.SynDaver.com](http://www.SynDaver.com)

Prices are subject to change. Products made to order.  
Made in the USA.



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# Mission & Vision



## Mission Statement

To be the global leader in supporting healthcare education for both human and animal care through the implementation of our synthetic tissue analogs into anatomically correct modeling.



## Vision Statement

To Manufacture and deploy high-fidelity models to improve medical education, surgical simulation, and veterinary education. Our products will advance training methodologies and end or limit the use of cadaver humans and animals.



## SynDaver Synthetic Human Line







# G2 SynTissue Anatomy Model

Anatomy and other health science classes worldwide are replacing inadequate plastic models and unsafe human and animal cadavers with the SynDaver Anatomy Model, which is made from materials that mimic live human tissue in a biohazard-free, non-toxic way. Offered in both male and female models.

Female: (101200)

Male: (101250)



## Affordable

SynDaver products are less expensive than cadavers over the course of their service life, and they may be repaired and upgraded during refurbishment.



## Long-Lasting

With proper care, SynDaver Anatomy Models will last indefinitely, providing decades of trouble-free use.



## Humane

SynDaver Synthetic Humans are an ethical alternative to using live animals or animal cadavers for anatomy education.



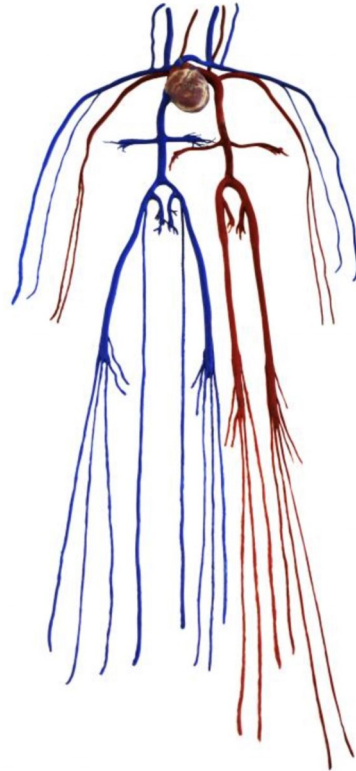
## Safe

SynDaver products are biohazard and formaldehyde-free, and they pose no health risk to those who handle them.



## Effective

Since SynTissue® mimics live tissue (made from water, fibers and salts), it delivers realistic training without the dangers posed by cadavers.



### STRUCTURAL FEATURES :

Skeletal, muscular, fascial and cartilaginous structures of the skull, jaw, cervical spine, rib cage, chest, abdomen, upper and lower back, shoulders, upper arms, forearms, wrists, digits, thoracic spine, lumbar spine, pelvis, thighs, lower legs, feet and toes.

### ANATOMICAL FEATURES :

Every bone, muscle, tendon, semi-articulating joints, functioning respiratory system, complete digestive and urinary tracts, visceral organs, reproductive organs, circulatory system and nervous system including the following specifics:

### Nervous Components

- Lateral Cord
  - Musculocutaneous
- Medial Cord
- Medial Brachial Cutaneous
- Medial Antebrachial
  - Cutaneous Ulnar
- Radial
- Superficial Branch
- Sciatic
- Common, Deep, and
  - Superficial Peroneal Tibial
- Genitofemoral
- Iliohypogastric
- Ilioinguinal
- Lateral Femoral Cutaneous
- Obturator
- Femoral
- Anterior Cutaneous Branches
- Saphenous

### Venous Vasculature

- Jugular veins
- Subclavian veins
- Superior vena cava
- Inferior vena cava
- Renal veins
- Common iliac veins
- Internal iliac veins
- External iliac veins
- Cephalic veins
- Basilic veins
- Cephalic veins
- Great saphenous veins
- Popliteal veins
- Femoral veins
- Anterior tibial veins
- Fibular (peroneal) veins
- Posterior tibial veins

### Arterial Vasculature

- Aortic arch
- Descending thoracic aorta
- Renal arteries
- Abdominal aorta
- Common carotid arteries
- Subclavian arteries
- Axillary arteries
- Brachial arteries
- Coronary arteries
- Iliac arteries
- Radial arteries
- Ulnar arteries
- Common femoral arteries
- Popliteal arteries
- Anterior tibial arteries
- Fibular (peroneal) arteries
- Posterior tibial arteries



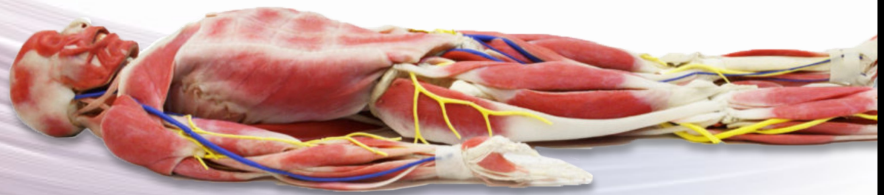


# SynDaver Body Bundle

Anatomy and other health science classes worldwide are replacing inadequate plastic models and unsafe human and animal cadavers with the SynDaver Anatomy Model, which is made from materials that mimic live human tissue in a biohazard-free, non-toxic way.

## SynDaver Anatomy Model

Constructed entirely of our proprietary SynTissue®, the SynDaver Models are the highest-quality, hands-on teaching tools in the world.



## Stainless Steel Immersion Table

Because all SynDaver Models are made from water, salts and fiber, just like the real thing, the SynTissue Model must be stored in water. The Immersion table is the perfect solution for fast and efficient transition between a teaching environment and proper storage of the synthetic tissue.



## Domestic On-site Body Installation

Installation and initial training of a SynDaver Human model by a SynDaver technician. They will coordinate with your unit's arrival, and go over proper installation steps, care, and storage training, ensuring lasting longevity for your model.



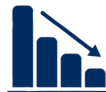
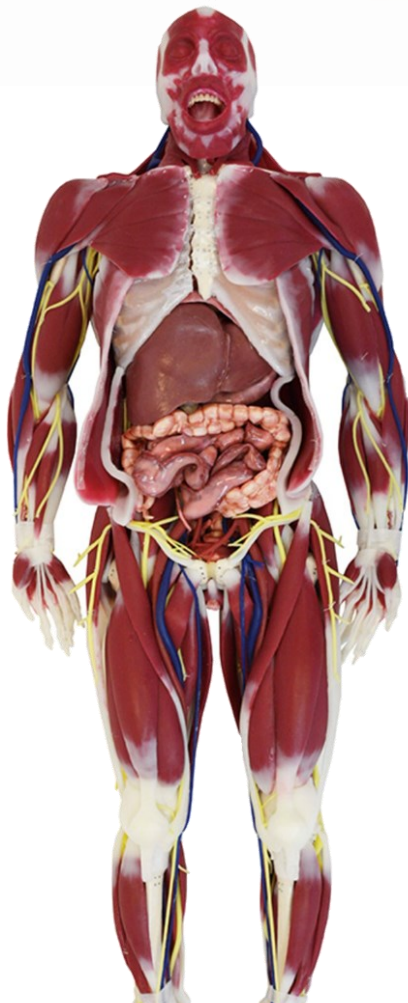


## G3 Silicone Anatomy Model

Anatomy and other health science classes worldwide are replacing inadequate plastic models and unsafe human and animal cadavers with the SynDaver Anatomy Model. Our third generation (G3) SynDaver Anatomy Model made from silicone features improved accuracy in muscular origins and insertions, higher fidelity in organ systems, and greater durability in vascular and nervous structures. Offered in both male and female models.

Female: (102001)

Male: (102051)



### Affordable

SynDaver products are less expensive than cadavers over the course of their service life, and they may be repaired and upgraded indefinitely.



### Long-Lasting

With proper care, SynDaver Anatomy Models will last indefinitely, providing decades of trouble-free use.



### Humane

SynDaver Synthetic Humans are an ethical alternative to using live animals or animal cadavers for anatomy education.



### Safe

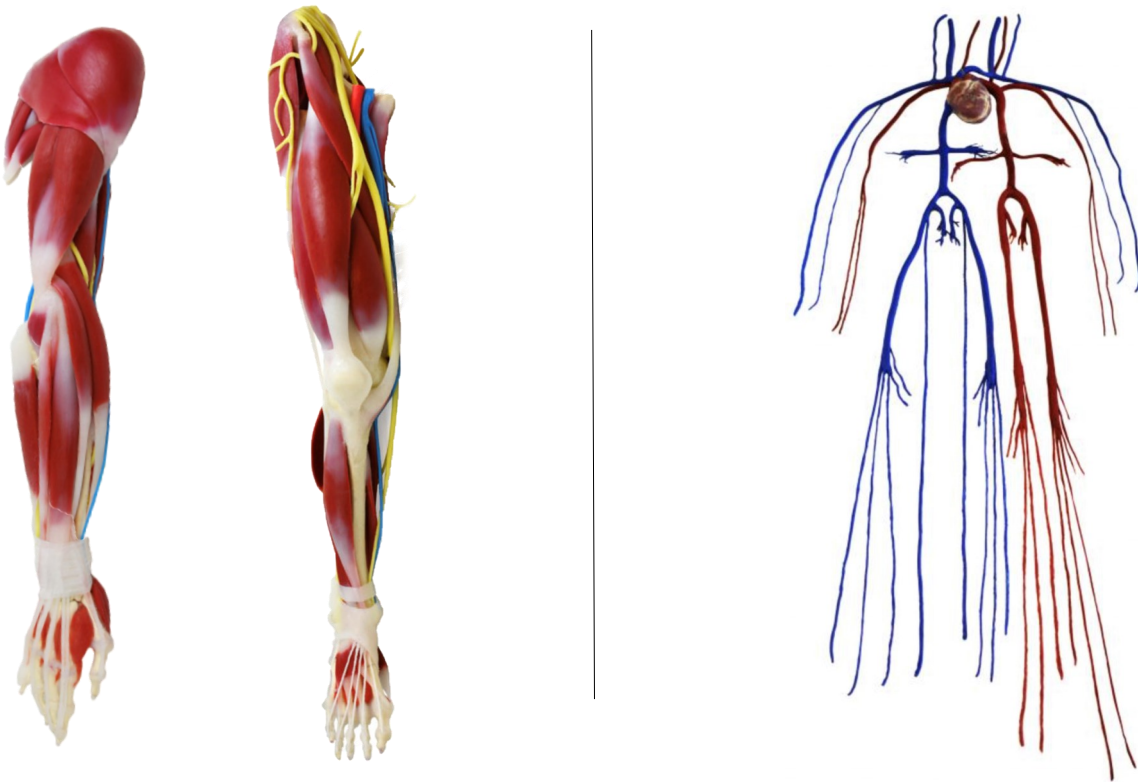
SynDaver products are biohazard and formaldehyde-free, and they pose no health risk to those who handle them.



### Effective

The SynDaver Silicone Anatomy Model delivers realistic training without the dangers posed by cadavers.





### STRUCTURAL FEATURES :

Skeletal, muscular, fascial and cartilaginous structures of the skull, jaw, cervical spine, rib cage, chest, abdomen, upper and lower back, shoulders, upper arms, forearms, wrists, digits, thoracic spine, lumbar spine, pelvis, thighs, lower legs, feet and toes.

### ANATOMICAL FEATURES :

Every bone, muscle, tendon, semi- articulating joints, functioning respiratory system, complete digestive and urinary tracts, visceral organs, reproductive organs, circulatory system and nervous system including the following specifics:

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- Lateral Cord
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- Coronary arteries
- Iliac arteries
- Radial arteries
- Ulnar arteries
- Common femoral arteries
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- Fibular (peroneal) arteries
- Posterior tibial arteries



# G2 SynTissue Musculoskeletal Model

Our SynDaver Musculoskeletal Model includes the major skeletal and muscular structures present in typical human anatomy. This genderless model excludes the internal organs, nervous system, and vasculature system. SynDaver's are an extremely realistic synthetic representation of human anatomy. This education-grade synthetic human includes bones, joints, muscles and tendons. Anatomy and other health science classes worldwide are replacing inadequate plastic models and unsafe human and animal cadavers with the SynDaver MSK Model, which is made from materials that mimic live human tissue instead of dead tissue.

(101400)



## Affordable

SynDaver products are less expensive than cadavers over the course of their service life, and they may be repaired and upgraded indefinitely.



## Long-Lasting

With proper care, SynDaver MSK Models will last indefinitely, providing decades of trouble-free use.



## Humane

SynDaver Synthetic Humans are an ethical alternative to using live animals or animal cadavers for anatomy education.



## Safe

SynDaver products are biohazard and formaldehyde-free, and they pose no health risk to those who handle them.



## Effective

Since SynTissue® mimics live tissue (made from water, fibers and salts), it delivers realistic training without the dangers posed by cadavers.





# G3 Silicone Musculoskeletal Model

Anatomy and other health science classes worldwide are replacing inadequate plastic models and unsafe human and animal cadavers with the SynDaver Musculoskeletal Model. Our third generation (G3) SynDaver MSK Model made from silicone features improved accuracy in muscular origins and insertions.

The musculoskeletal model is a genderless model consisting of the skeleton structure and overlying muscles. If organs, nerves, and vasculature systems are needed, we invite you to take a look at our Anatomy Models.

(102010)



## Affordable

SynDaver products are less expensive than cadavers over the course of their service life, and they may be repaired and upgraded indefinitely.



## Long-Lasting

With proper care, SynDaver MSK Models will last indefinitely, providing decades of trouble-free use.



## Humane

SynDaver Synthetic Humans are an ethical alternative to using live animals or animal cadavers for anatomy education.



## Safe

SynDaver products are biohazard and formaldehyde-free, and they pose no health risk to those who handle them.



## Effective

The SynDaver Silicone MSK Model delivers realistic training without the dangers posed by cadavers.



## Hybrid Surgical Model

The Hybrid Surgical Model differs from the Standard Surgical Model in that the muscles and thoracic cavity are all made from silicone components. This allows for easier care and maintenance, while maintaining the SynTissue surgical organs in the abdomen and SynTissue skin on the body. The SSH model can be customized to be used in a wide variety of surgical procedures, such as bowel resection, appendectomy, splenectomy, kidney transplant, hysterectomy, and others. Our SynDaver team will work with you to tailor your unit to meet your specific program needs.

Female: (101705)

Male: (101750)



### Affordable



SynDaver products are less expensive than cadavers over the course of their service life, and they may be repaired and upgraded indefinitely.



### Long-Lasting

With proper care, SynDaver Surgical Models will last indefinitely, providing decades of trouble-free use.



### Humane

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### Safe

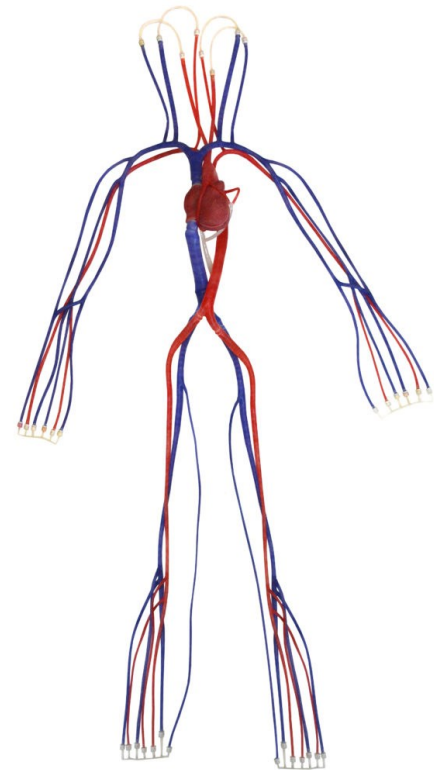
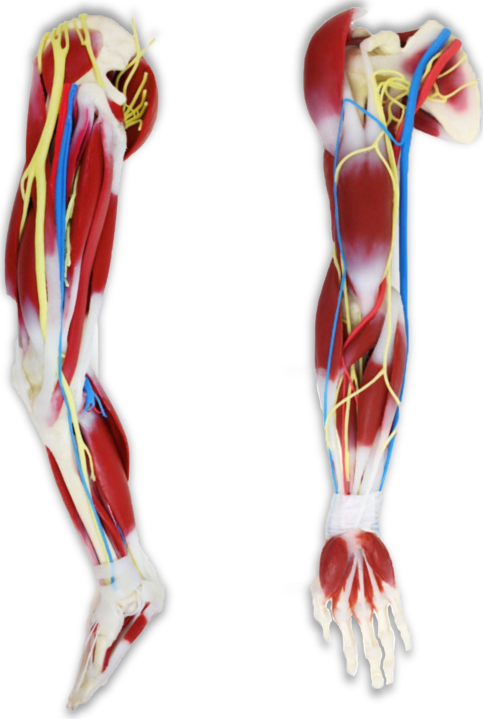
SynDaver products are biohazard and formaldehyde-free, and they pose no health risk to those who handle them.



### Effective

Since SynTissue® mimics live tissue (made from water, fibers and salts), it delivers realistic training without the dangers posed by cadavers.





## STRUCTURAL FEATURES

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- Posterior tibial arteries



## SynDaver Mortuary Model

SynDaver® Labs is the world leader in high-fidelity synthetic human and animal modeling. The SynDaver Mortuary Model features improved accuracy in injection access to major jugular, carotid, radial vein and artery, and venous and arterial femoral vessels.

(101300)



### Included Components:

- Full genderless body with skin and storage system.
- Replaceable access points at the carotid/ jugular, radial vein/ artery, and femoral vein/ artery.
- Injectable vasculature system for arterial embalming procedures.
- Compatible with cosmetic feature setting.
- Body cavity compatible with clinical embalming techniques.
- Limitless reusability with proper care and maintenance.
- Organs available as semi-standard request.



### Affordable

SynDaver products are less expensive than cadavers over the course of their service life, and they may be repaired and upgraded indefinitely.



### Long-Lasting

With proper care, SynDaver Mortuary Models will last indefinitely, providing decades of trouble-free use.



### Humane

SynDaver Synthetic Humans are an ethical alternative to using live animals or animal cadavers for anatomy education.



### Safe

SynDaver products are biohazard and formaldehyde-free, and they pose no health risk to those who handle them.



### Effective

Since SynTissue® mimics live tissue (made from water, fibers and salts), it delivers realistic training without the dangers posed by cadavers.



## Human Extended Service Agreements:

SynDaver offers Extended Service Agreements for many of our SynTissue® and Silicone products. The Extended Service Agreement augments the manufacturer's warranty, covering non-consumable products where parts may become worn or break during repeated long-term use. This intent of this agreement is to extend the product's useful life through preventative maintenance and refurbishment.

### **Extended Service Agreement Services Provided:**

Annual refurbishment based on extended agreement terms includes:

Initial in-house deep cleaning and shock treatment by a SynTissue® expert

Head-to-toe assessment and troubleshooting

Non-consumable components (e.g., organs, muscles, vasculature, etc.) in full-body models are eligible for repair and/or replacement up to 20% of full body replacement costs.

Refurbishments are intended to eliminate visible and procedural wear and tear resulting in a like-new product.

### **Return Shipping is included in the cost of ESA's for domestic customers.**

Customers will be required to retain the original shipping box, pallet, Styrofoam peanut bed, body bag, and all additional shipping materials for future refurbishment shipping.

## **Available Coverage:**

- Silicone & SynTissue Anatomy Models
- Silicone & SynTissue Musculoskeletal Models
- Mortuary Model
- Surgical Model
- Silicone & SynTissue Limbs

### **Additional Information:**

- 1 Year, 3 Year, or 5 Year ESA Options Available
- Annual Invoicing Available
- Skeleton Upgrade Available as an add-on





# G2 SynTissue Anatomy Limbs

SynDaver anatomical models are manufactured from simplified versions of the synthetic human skeletal muscles, tendons and fascia developed by SynDaver Labs for anatomical teaching and training. These education-grade models include solid vasculature, nerves, bones, joints, muscles, and tendons, and all joints are semi-articulating.

## Structural Features

**Arm:** Skeletal, vascular, nervous, muscular, fascial and cartilaginous structures of the shoulder, upper arm, forearm, wrist and hand.

**Leg:** Skeletal, vascular, nervous, muscular, fascial and cartilaginous structures of the hemi-pelvis, thigh, knee, lower leg, ankle and foot.

## Tissue Features

SynTissue synthetic human tissues are made from salt, water and fiber, which feature the world's most realistic tactility next to living biological tissues. SynTissue synthetic human tissues match the acoustical characteristic of real human tissue.

## Construction Materials

Built using thermoplastic bones with integral fascia sheath, the muscular tissues are SynTissue® synthetic human skeletal muscle, tendon, nerve, vessel, fascia and bone. SynTissue Synthetic Human tissues match the acoustical characteristic of real human tissue.



Leg: (102400)

Arm: (102300)

## Included Components:

- |                            |  |
|----------------------------|--|
| 1. Iliacus                 | 12. Medial Patellar                                      |
| 2. Gluteus Medius          | 13. Gastrocnemius  |
| 3. Tensor Fascia Latae     | 14. Tibialis Anterior                                    |
| 4. Gluteus Maximus         | 15. Fibularis Longus                                     |
| 5. Sartorius               | 16. Fibularis Longus                                     |
| 6. Rectus Femoris          | 17. Achilles Tendon                                      |
| 7. Vastus Medius           | 18. Fibularis Brevis                                     |
| 8. Vastus Lateralis        | 19. Extensor Digitorum Brevis & Extensor Hallucis Brevis |
| 9. Vastus Lateralis        | 20. Abductor Hallicus                                    |
| 10. Biceps Femoris (Long)  | 21. Abductor Digiti Minimi                               |
| 11. Biceps Femoris (Short) |  |

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| 1. Posterior Deltoid              | 13. Flexor Carpi Ulnaris           |
| 2. Infraspinatus                  | 14. Extensor Carpi Radialis Brevis |
| 3. Medial Deltoid                 | 15. Flexor Digitorum Profundus     |
| 4. Teres Major                    | 16. Extensor Digitorum             |
| 5. Scapula                        | 17. Extensor Carpi Ulnaris         |
| 6. Triceps                        | 18. Brachioradialis                |
| 7. Anterior Deltoid               | 19. Extensor Digiti Minimi         |
| 8. Brachialis                     | 20. Pronator Teres                 |
| 9. Extensor Carpi Radialis Longus | 21. Abductor Pollicis Longus       |
| 10. Anconeus                      | 22. Flexor Carpi Radialis          |
| 11. Brachioradialis               | 23. Flexor Digitorum Profundus     |
| 12. Biceps Brachii                | 24. First Digit (Thumb)            |
|                                   | 25. Fifth Digit (Pinky)            |





# G3 Silicone Anatomy Limbs

19

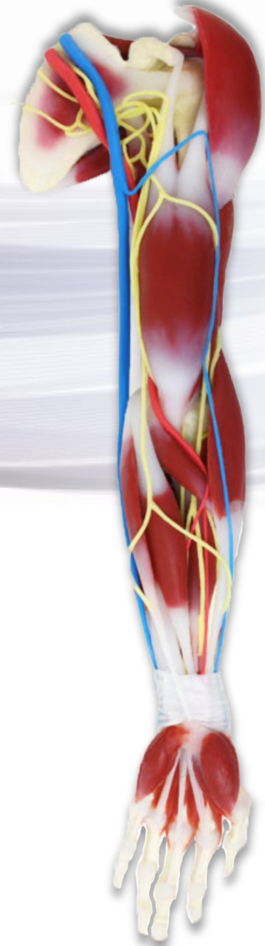
Our SynDaver Silicone Anatomy Arm includes all of the major skeletal, muscular, and cartilaginous structures between the scapula and the fingertips. This model is made from silicone and polymer composites, so unlike our standard wet-tissue products this model can be stored on a shelf! These education-grade models include bones, joints, muscles, and tendons, and all joints are semi-articulating.



## Structural Features

**Arm:** Skeletal, vascular, nervous, muscular, fascial and cartilaginous structures of the shoulder, upper arm, forearm, wrist and hand.

**Leg:** Skeletal, vascular, nervous, muscular, fascial and cartilaginous structures of the hemi-pelvis, thigh, knee, lower leg, ankle and foot.



## Tissue Features

SynDaver has recently upgraded to a platinum version of the silicone material that you already know and love. This new silicone offers a softer, more realistic, and more durable material structure.

## Construction Materials

Polymer composite bones with integral fascia sheath. Muscular tissues are comprised of silicate composite.

## Included Components:

Leg: (102470)

Arm: (102370)

- |                            |  |
|----------------------------|--|
| 1. Iliacus                 | 12. Medial Patellar                                      |
| 2. Gluteus Medius          | 13. Gastrocnemius  |
| 3. Tensor Fascia Latae     | 14. Tibialis Anterior                                    |
| 4. Gluteus Maximus         | 15. Fibularis Longus                                     |
| 5. Sartorius               | 16. Fibularis Longus                                     |
| 6. Rectus Femoris          | 17. Achilles Tendon                                      |
| 7. Vastus Medius           | 18. Fibularis Brevis                                     |
| 8. Vastus Lateralis        | 19. Extensor Digitorum Brevis & Extensor Hallucis Brevis |
| 9. Vastus Lateralis        | 20. Abductor Hallicus                                    |
| 10. Biceps Femoris (Long)  | 21. Abductor Digiti Minimi                               |
| 11. Biceps Femoris (Short) |  |

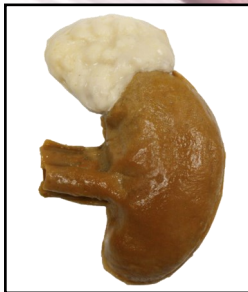
- |                                   |                                    |
|-----------------------------------|------------------------------------|
| 1. Posterior Deltoid              | 13. Flexor Carpi Ulnaris           |
| 2. Infraspinatus                  | 14. Extensor Carpi Radialis Brevis |
| 3. Medial Deltoid                 | 15. Flexor Digitorum Profundus     |
| 4. Teres Major                    | 16. Extensor Digitorum             |
| 5. Scapula                        | 17. Extensor Carpi Ulnaris         |
| 6. Triceps                        | 18. Brachioradialis                |
| 7. Anterior Deltoid               | 19. Extensor Digiti Minimi         |
| 8. Brachialis                     | 20. Pronator Teres                 |
| 9. Extensor Carpi Radialis Longus | 21. Abductor Pollicis Longus       |
| 10. Anconeus                      | 22. Flexor Carpi Radialis          |
| 11. Brachioradialis               | 23. Flexor Digitorum Profundus     |
| 12. Biceps Brachii                | 24. First Digit (Thumb)            |
|                                   | 25. Fifth Digit (Pinky)            |



## SynTissue Human Organs

**Our SynDaver human organ models are by far the most realistic synthetic organs of their type available anywhere in the world.**

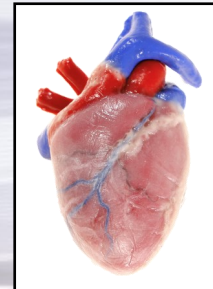
The structural design is based on an amalgam of CT and MRI images from actual patients. All items are individually sealed, with a shelf life of up to six months. SynTissue Synthetic Human tissues made from salt, water, and fiber—which feature the world's most realistic tactility. SynTissue synthetic human tissues match the acoustical characteristic of real human tissue. Compatible with all known imaging equipment including X-Ray, MRI, CT, fluoroscopy, and ultrasound, all known surgical devices including dilators, stents, sutures, lasers, RF ablation, bipolar, mono-polar and harmonic devices, and many others.



**Kidney  
(130210)**



**Small Intestine  
(130470)**



**Solid Reference  
Heart (104204)**



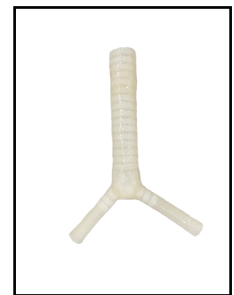
**Liver (130610)**



**Gall Bladder  
(130190)**



**Large Intestine  
(130400)**



**Trachea  
(130540)**



**Stomach with (130511) or  
without Esophagus (130510)**



**Umbilicus  
(130170)**





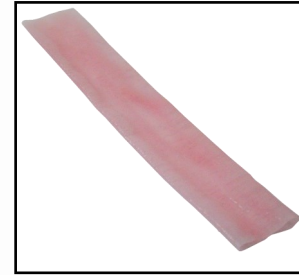
## SynTissue Human Organs



**Lung (Pair)**  
**(130120)**



**Spleen**  
**(130490)**



**Esophagus**  
**(130180)**



**Pancreas**  
**(130420)**



**Penis**  
**(130450)**



**Prostate**  
**(130150)**



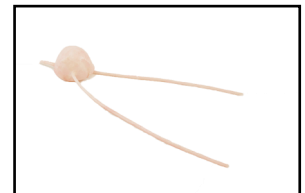
**Vas Deferens**  
**(160190)**



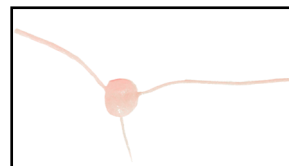
**Ureter**  
**(160180)**



**Uterus**  
**(130160)**

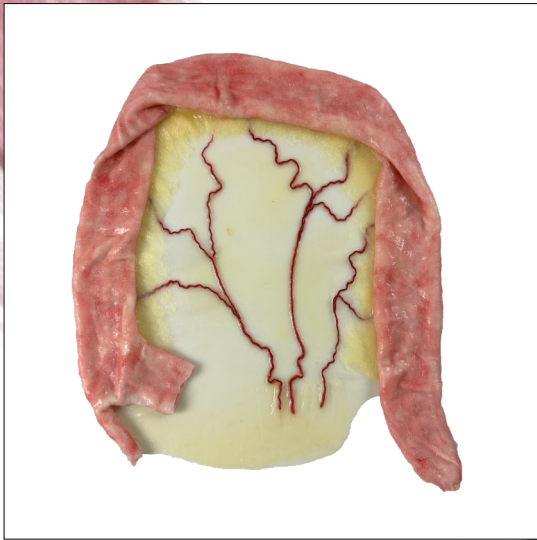


**Bladder**  
**(Available in**  
**Male (130571)**  
**or Female**  
**(130570))**

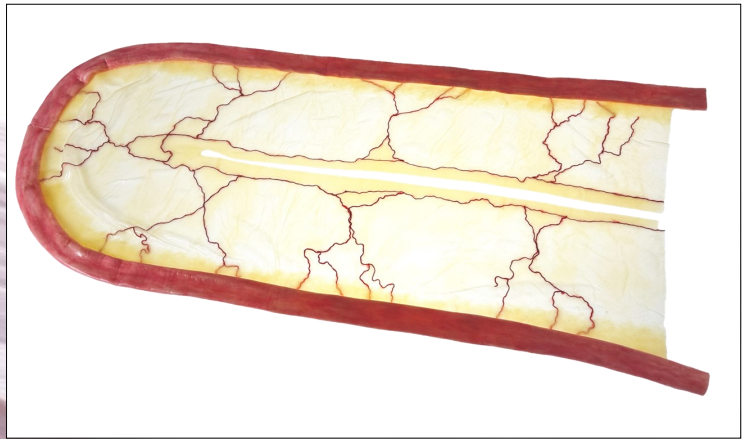




## Complex SynTissue Human Organs



**Complex Large Intestine w/  
Mesentery (130402)**



**Complex Small Intestine w/  
Mesentery (130472)**



**Complex Breast  
Phantom  
(160650)**





# Silicone Human Organs

**Our SynDaver human organ models are by far the most realistic synthetic organs of their type available anywhere in the world.**

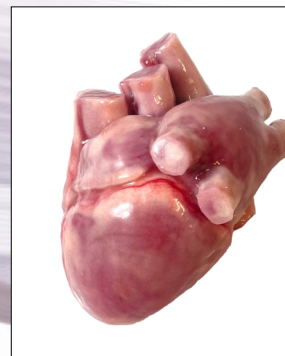
The structural design is based on an amalgam of CT and MRI images from actual patients.



**Kidney  
(130300)**



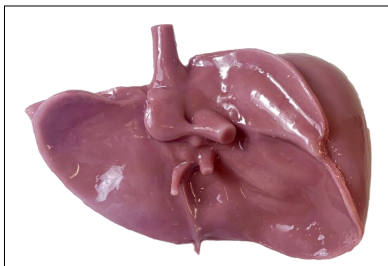
**Small Intestine  
(130310)**



**Solid Reference  
Heart  
(130700)**



**Gall Bladder  
(130320)**



**Liver  
(130330)**



**Large Intestine  
(130315)**



**Stomach  
(130340)**



**Trachea  
(130350)**



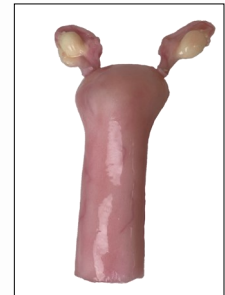
## Silicone Human Organs



**Lung (Pair)**  
**(130360)**



**Spleen**  
**(130370)**



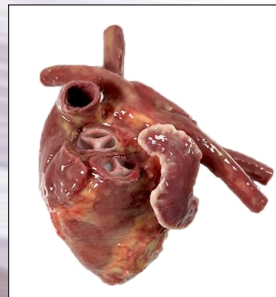
**Uterus**  
**(130380)**



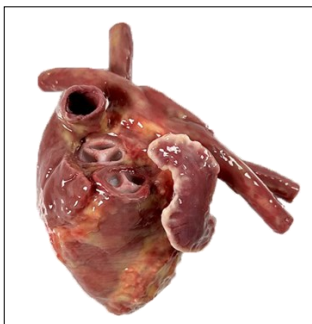
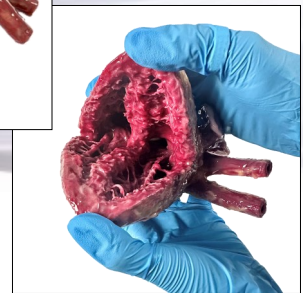
**Pancreas**  
**(130390)**



**Bladder**  
**(130395) F**  
**(130396) M**



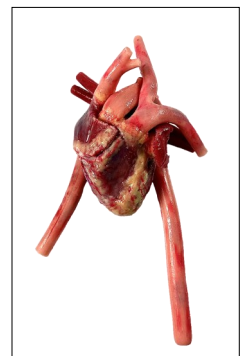
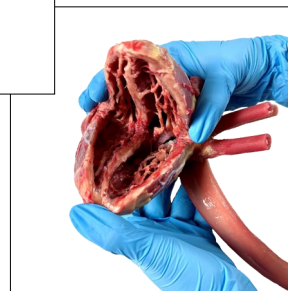
**Standard**  
**Heart, Cut**  
**(130702)**



**Standard**  
**Heart**  
**(130701)**



**Deluxe Heart,**  
**Cut (130704)**



**Deluxe Heart**  
**(130703)**





## SynDaver Synthetic Veterinary Line





# Hybrid Surgical Canine

The SynDaver Surgical Canine provides an unparalleled platform for repeatable procedures. Featuring realistic organs integrated with complete vasculature, the system affords veterinary students and surgeons an incomparable experience in surgical situations commonly faced in the operating room. This model is comprised of a silicone chassis, thoracic organs, and limbs, with patented SynTissue head, airway, abdominal organs, and skins.



## Surgical Canine Capabilities:

### Technical Procedures

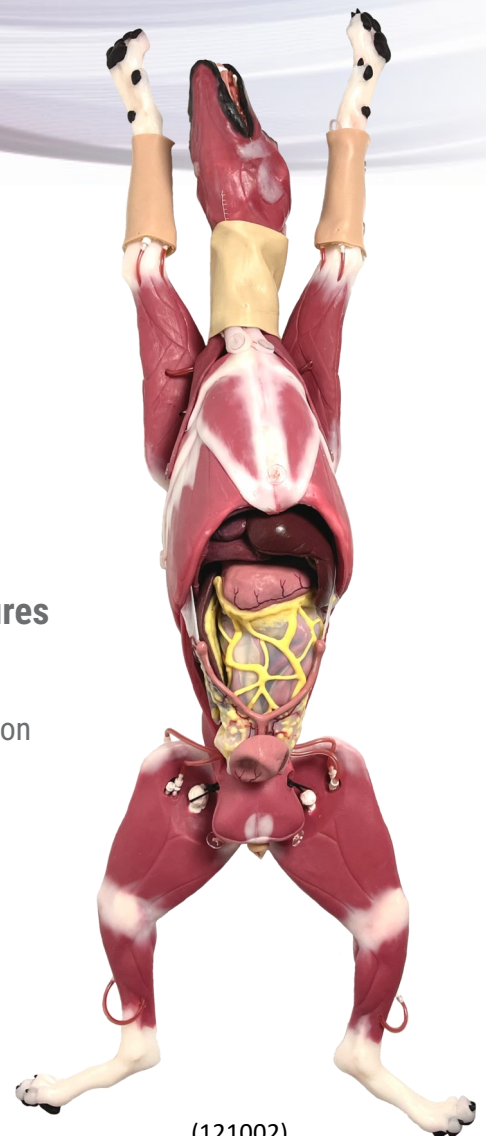
- Cephalic venipuncture
- Cephalic vein catheterization
- External jugular venipuncture
- External jugular catheterization
- Orotracheal intubation
- Naso-esophageal tube placement
- Cystoscopy
- Stomach tube placement
- Thoracocentesis
- Cystocentesis
- Chest tube placement
- Urinary catheterization
- Upper GI endoscopy
- Lower GI endoscopy

### Abdominal Procedures

- Gastrotomy with foreign body removal
- Gastropexy
- Splenectomy
- Liver lobe biopsy
- Partial liver lobectomy
- Enterotomy with foreign body removal
- Intestinal resection with anastomosis
- Small intestinal biopsy
- Large intestinal biopsy
- OVH
- Cystotomy with stone removal

### Other Surgical Procedures

- Tracheostomy
- Mammary mass resection
- Cutaneous suturing
- Muscular suturing
- Surgical hemostasis



(121002)





# SynDaver Modular Canine

The SynDaver Modular Canine offers a veterinary solution that is fully customizable to fit your program needs. Choose from multiple configurations to easily swap out limbs, abdominal, and airway management setups. Compatible with Surgical Canine Abdominal Organs.



## Vet Tech:

- Head & Airway
- Torso
- Vascular Leg Set
- Urogenital Inserts (M&F)
- Chest Compression Ribs
- IM Lumbar Injection Site
- Onboard Pump

## Add Ons:

- Trauma Legs (Compound Fracture, Tibia IO, Wound, & Hemorrhage)
- Surgical Organ Set w/ External Pump
- Neck Wound Insert
- Tracheostomy / Cricothyrotomy
- Bleeding Neck Skin
- Fur Kit

## Trauma:

- Head & Airway
- Torso
- Vascular Leg Set
- Trauma Leg Set
- Neck Wound
- Tracheostomy / Cricothyrotomy
- Urogenital Insert (M or F)
- Chest Compression Ribs
- IM Lumbar Injection Site
- Onboard Pump
- Fur Kit

## Add Ons:

- Surgical Organ Set w/ External Pump
- Bleeding Neck Skin
- Additional Urogenital Insert (M or F)

## Surgical:

- Head & Airway
- Torso
- Vascular Leg Set
- Surgical Organ Set
- Chest Tube Insertion Ribs
- IM Lumbar Injection Site
- External Pump

## Add Ons:

- Trauma Legs (Compound Fracture, Tibia IO, Wound, & Hemorrhage)
- Trauma Legs (Compound Fracture, Tibia IO, Wound, & Hemorrhage)
- Tracheostomy / Cricothyrotomy
- Bleeding Neck Skin
- Neck Wound Insert
- Urogenital Inserts (M or F)
- Chest Compression Ribs
- Fur Kit

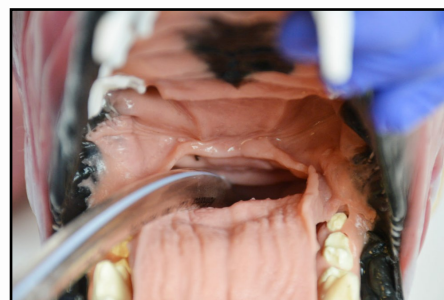


## Canine Segmented Models

### Basic & Deluxe Canine Airway Trainers

This model contains highly realistic oral and upper airway anatomy and is by far the most realistic and elaborate canine model that has ever been constructed. This model will allow for an unparalleled intubation experience. The airway offers the ability for respiration if hooked up to a respirator. Cuff inflation is accessible as well as pressure checks and leak detection. Inflatable lungs are available on the deluxe model.

Both models support nasal and endotracheal intubation as well as landmarks such as the larynx, epiglottis, glottis, and tracheal opening. The deluxe model contains a vascularized neck skin to allow for IV insertion.



Basic Airway Model (123701)

Deluxe Airway Model (123721)

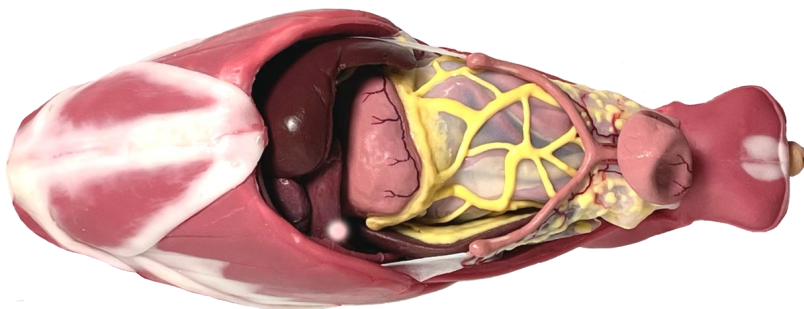


### Hybrid Abdominal Trainer

This model provides an unparalleled platform for repeatable surgical procedures. Featuring a silicone chassis with integrated vasculature, the system affords veterinary students and surgeons an incomparable experience in surgical situations commonly faced in the operating room. This model differs from our full body canine surgical model in that it does not include the head, airway, or extremities. It is used as a focus trainer on abdominal surgical procedures.

#### Surgical Procedures

- Gastrotomy with foreign body removal
- Gastropexy
- Splenectomy
- Liver lobe biopsy
- Partial liver lobectomy
- Enterotomy with foreign body removal
- Intestinal resection with anastomosis
- Small intestinal biopsy
- Large intestinal biopsy
- OVH
- Cystotomy with stone removal



(123502)

## Veterinary Extended Service Agreements:

SynDaver offers Extended Service Agreements for many of our SynTissue® and Silicone products. The Extended Service Agreement augments the manufacturer's warranty, covering non-consumable products where parts may become worn or break during repeated long-term use. This intent of this agreement is to extend the product's useful life through preventative maintenance and refurbishment.

### **Extended Service Agreement Services Provided:**

Annual refurbishment based on extended agreement terms includes:

Initial in-house deep cleaning and shock treatment by a SynTissue® expert

Head-to-toe assessment and troubleshooting

Non-consumable components (excluding SynTissue organs and skin) are eligible for repair and/or replacement up to 20% of full body replacement costs

Refurbishments are intended to eliminate visible and procedural wear and tear resulting in a like-new product.

**Return Shipping is included in the cost of ESA's for domestic customers.**

Customers will be required to retain the original shipping box, pallet, Styrofoam peanut bed, body bag, and all additional shipping materials for future refurbishment shipping.

## **Service Agreement Options:**

- Basic—Includes refurbishment once per year during coverage period. SynTissue organ replacement not included.
- Premium—Include refurbishment and replacement of installed canine organ set once per year during coverage period.

## **Available Coverage:**

- Hybrid Surgical Canine
- Canine Abdominal Surgical Trainer

## **Additional Information:**

- 1 Year, 3 Year, or 5 Year ESA Options Available
- Annual Invoicing Available
- Silicone Chassis Upgrade Available for existing SynTissue Chassis







# SynTissue Canine Organs

**Our SynDaver organ models are by far the most realistic synthetic organs of their type available anywhere in the world.**

These models employ simplified versions of our patented SynTissue brand synthetic canine tissues. Designed with extensive input from our veterinary clients, these materials exhibit realistic puncture resistance, suture holding, and electrocautery, laser scalpel, and plasma knife performance. SynTissue brand synthetic canine tissue components are designed on the basis of physical tests performed on actual living tissue. Each synthetic tissue is validated (tensile modulus, abrasion resistance, penetration force, coefficient of friction, thermal conductivity, dielectric constant, etc.) under the same physical conditions as the live tissue it is designed to simulate. The resulting synthetic tissue responds to stimulus much like real living tissue.



**GI Tract (Stomach with Omentum, Pancreas, Small Intestine with Mesentery) (123010)**



**Vascularized Female Reproductive System (Uterus) (123005)**



**Vascularized Liver Lobe (123001)**



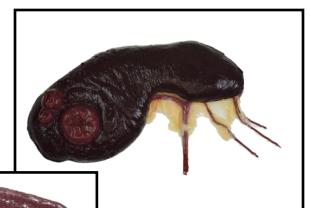
**Abdominal Skin Plate (123009)**



**Urinary Bladder (123006)**



**Vascularized Spleen (123003)**



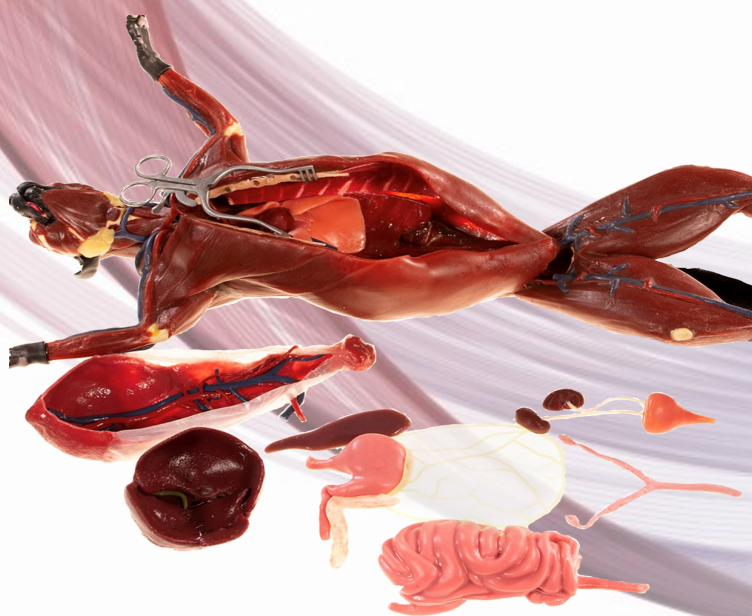
**Shown with Pathologies (123004)**



## SynDaver CopyCat®

**The Syndaver CopyCat® is a Hybrid, full body replica of the feline anatomy with synthetic muscles, tendons, and bones.**

It pairs SynTissue® organs with a silicone chassis and is intended to replace the use of cat cadavers in middle and high school dissection (non-biohazard and ethically sound). Replaceable SynTissue® organs extend the useful life of this model.



(126001)



(126002)



### Relevant Skills

Dissection, retraction, identification of internal and external anatomy.



### Included Components

One silicone feline chassis containing silicone vasculature, heart, lungs, and trachea. One SynTissue abdominal pouch containing SynTissue kidneys, GI Tract, reproductive system, spleen, liver and diaphragm.



### Available Options

A spay uterus option is offered as an add-on. Please speak with your local representative about getting this option for your CopyCat.



### Packaging

Product is shipped individually packaged in a heat sealed bag with antimicrobial solution.



## SynFrog

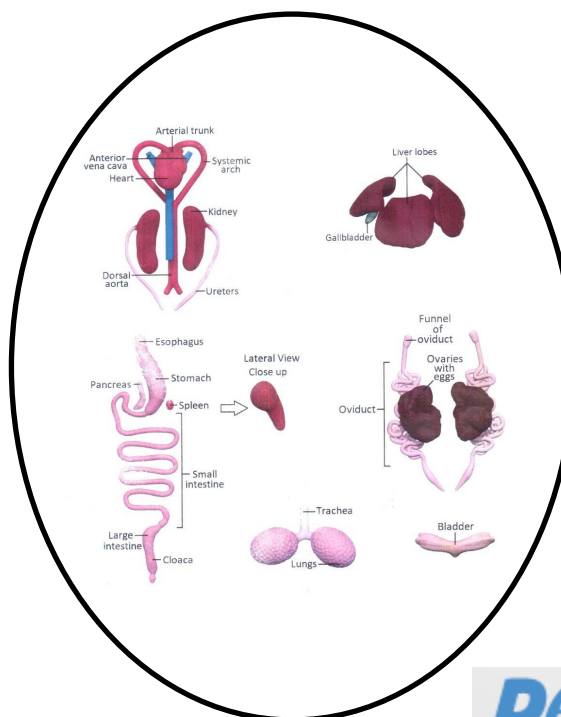
SynFrog is made with SynTissue®, a library of synthetic wet tissues that mimic the look, feel and physical properties of real live tissue. SynFrog is made to represent a live female frog in every way possible, including its size and the texture and color of its skin and organs. It also features a realistic reproductive system, complete with eggs. With SynFrog, there's no longer any need to harm real frogs for the sake of enhancing the educational experience. This model comes with a replaceable belly skin and organ pouch, so that reusability is ensured. In addition to eliminating the ethical concerns of sacrificing living animals to teach comparative anatomy, SynFrog is a better option for students because it eliminates exposure to biohazardous waste, and carcinogenic chemicals such as formaldehyde and formalin.

(124001)



### SynFrog is 100% safe to use and features:

- Highly realistic and expertly detailed frog body
- Removeable, anatomically correct organs
- No harmful chemicals or odors



Bundle

(124004)

**PETA**

**FUNDING PARTNER**

SynFrog was developed in collaboration with PETA as a funding partner.





# SynDaver Synthetic Human Task Trainers





## Human Airway Trainers

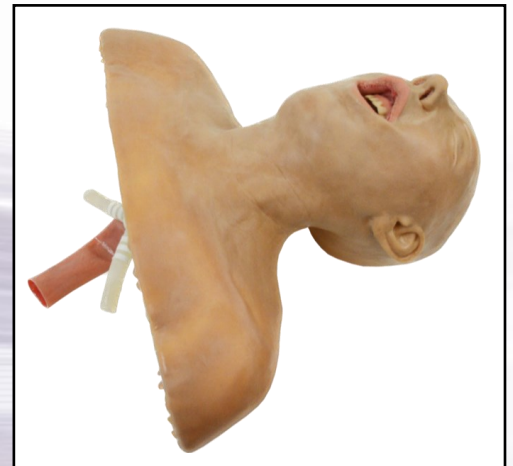
SynDaver's® Airway Trainers are realistic medical training platforms ideal for teaching the techniques associated with tracheal intubation. With these trainers, students will be able to learn and master surgical techniques on biohazard-free material that looks, feels and behaves like live human tissue. These models include realistic oral cavity with a hard and soft palate, tongue, uvula, epiglottis and vocal cords. The soft neck with cricocartilage enables users to perform Sellick's maneuver for a better view of the larynx and/or to reduce gastric reflux.



(160420)



(160430)



(160410)



### Relevant Skills

Nasal and oral intubation, airway management exercises.



### Included Components

Upper torso with age-appropriate anatomy, storage case, care kit.



### Available Options

If you require custom tissues, dimensions, or modified mechanical properties, please call and ask to speak to one of our technical sales representatives.



### Packaging

Product is shipped vacuum packed inside the storage container.



### Equipment Compatibility

Laser scalpels, electrocautery and RF ablation devices, harmonic blades, monopolar and bipolar devices, plasma knives, ultra-sound equipment, and all known imaging equipment.



# Adult Cricothyrotomy Trainer

Our SynDaver Adult Surgical Cricothyrotomy Trainer is the world's most realistic surgical training platform for cricothyrotomy. In addition, it is compatible with nasogastric intubation and retrograde intubation. This model enables students to practice and repeat and improve their techniques on a high-quality, live-tissue replacement platform in a biohazard-free environment.

Repetitive use strengthens skills and confidence of all team members who perform or assist in implementing surgical airways. Typical users include emergency medical technicians, flight nurses, combat medics, ICU nurses and nurse practitioners. Anatomical features include oral cavity and nasal passages communicating with the lower airway, chin, clavicle, hyoid bone, thyroid cartilage, cricoid cartilage and cricoid membrane. (160440)



## Relevant Skills

Users can practice surgical and needle cricothyrotomy, nasal intubation, retrograde airway, palpation, cannulation, application and removal of sutures and staples, surgical cutdown and application of adhesives and bandages.



## Included Components

Plastic base, muscular form, two membrane carriages with hyoid and cricoid, skin overlay, 20 replacement tissues (skin and cricoid membrane) and a durable Pelican Case. Replacement skins, membranes, and cartridges may be purchased.



## Available Options

If you require custom tissues, dimensions, or modified mechanical properties, please call and ask to speak to one of our technical sales representatives. Choice of skin tone and replacement tissue sets (skin and cric membrane) is available.



## Packaging

Product is shipped vacuum packed with accessories in the storage container.



## Equipment Compatibility

SynDaver products are compatible with surgical airway devices, auto suturing and auto stapling devices, laser scalpels, electrocautery devices, bipolar and monopolar devices, harmonic blades and





## Wearable Chest Tube Trainer

Our Wearable Chest Tube Trainer is a highly life-like medical training simulator designed to teach users who need to develop skills associated with tube thoracostomy placement. This trainer provides realistic characteristics, such as appropriate frictional values (while incising the skin and subcutaneous tissue), appropriate puncture resistance (from the intercostal muscle and pleura during tube insertion) and direct simulated feedback from a well-protected patient actor.

The Wearable Chest Tube Trainer uses soft tissue from our SynTissue product line with mechanical features that allow it to be worn by a mannequin or a live standardized patient model. The structural elements in this item incorporate ballistics-quality armor to prevent injury.

Professionals who may benefit from this trainer include emergency medical technologists, field medics, flight medics, naval medics, paramedics, first responders, emergency physicians and nurses.



(160400)



### Relevant Skills

Relevant skills mastery include region sanitization and prep, local anesthesia application, rib palpation, dermal incision, subcutaneous cut down, intercostal muscle puncture, chest tube placement, chest tube fixation via suture techniques and chest tube management.



### Included Components

Wearable Armored Vestige Platform, Reusable Ribs, Replaceable Tissue Plate



### Available Options

Additional skin color options are available including: Caucasian, Tan, or Brown.



### Packaging

SynTissue skin plate is packaged in an airtight, vacuum sealed bag.



### Equipment Compatibility

The Wearable Chest Tube Trainer is compatible with scalpels, hemostats, chest tubes (thoracic catheters), suture kits, antiseptics and anesthetics.



Our Suturing Kits are great training platforms for both advanced students and experienced professionals seeking to hone the skills associated with more advanced suturing, scalpel skills, stapling, anastomosis, and surgical procedures.

## Deluxe Suture Kit



This complete kit includes a great instruction manual, basic suturing instruments, industry-best SynTissue Synthetic Tissues, and a durable travel case.

## Deluxe Suture Kit

This complete kit includes a great instruction manual, suturing instruments, industry-best SynTissue Synthetic Tissues, surgical practice board, and a durable travel case.

Deluxe Student Tissue Pack includes a large suture pad, knot tying pad, double layered bowel, two anastomosis vessels, small abdominal suture pad, small muscular suture pad, abdominal aorta, and coronary artery. As well as a surgical stapler, staple removal tool, needle driver, scissors, forceps, scalpel handle, ten blades, and twenty assorted sutures.



## Arthrocentesis Knee

Our SynTissue Arthrocentesis Knee trainer is a high fidelity synthetic knee ideal for teaching students how to perform or assist in arthrocentesis. Continuous practice on this lifelike simulator will help students build their skills and confidence in a biohazard-free environment.

This knee model utilizes lifelike features such as aspiration resistance when a needle tip is superficial to the joint capsule. Ultrasound compatible anatomic features include the patella, tibia, fibula, femur, synovial sac and synovial fluid. Simulated synovial fluid may be removed medially or laterally.



(160640)



### Relevant Skills

Ultrasound guidance, knee aspiration, intra-articular injection, suprapatellar effusion and palpation.



### Included Components

Synovial cavity with replaceable synovial fluid, patella, tibia, fibula, femur, muscular phantom, subcutaneous fat, skin, case, and stand.



### Available Options

Three skin color options are available to choose from: caucasian, tan, or brown.



### Packaging

SynTissue component is packaged in an airtight, vacuum sealed bag.



### Equipment Compatibility

Needles, syringes and ultrasound equipment.





# SynDaver Synthetic Tissue Pads & Plates





# SynDaver Tissue Plates

## Extraordinary Features

SynTissue synthetic human tissues made from salt, water and fiber – which feature the world's most realistic tactility. The standard adult skin layer exhibits a mean force of approximately 2N in our penetration test, this selection is an appropriate mimic for most skin on the human body (face, forearm, groin, etc.) Skins exhibiting greater penetration values are appropriate for thicker or more callused areas (abdomen, lower back, etc.) of the body. Basic model construction employs our patented SynTissue Synthetic Human tissues. These materials are experimentally designed on the basis of physical tests performed on actual living tissue. The resulting synthetic tissue responds to stimulus much like real living tissue.

## Skin Toughness Options

2N, 4N, 8N, or 10N

## Skin Color Options

Caucasian, Tan, or Brown

## Packaging

Product is packaged in an airtight, vacuum sealed bag.

## Equipment Compatibility

Laser scalpels, electrocautery and RF ablation devices, harmonic blades, monopolar and bipolar devices, plasma knives, ultrasound equipment, and all known imaging equipment.



**Adult Skin Plate**

### Included Layers:

Skin that is realistically textured on the surface and smooth on the subcutaneous side.

### Available Sizes:

20cm x 20cm

### Layer Thickness:

Nominal Thickness of 1-3mm



**Basic Tissue Plate**

### Included Layers:

Adult skin & subcutaneous fat.

### Available Sizes:

10cm x 10cm OR 20cm x 20cm

### Layer Thickness:

Skin: 1mm Fat: 5mm



## SynDaver Tissue Plates



**Muscular Tissue Plate**

### Included Layers:

Adult skin, subcutaneous fat, & skeletal muscle.

### Available Sizes:

10cm x 10cm OR 20cm x 20cm

### Layer Thickness:

Skin: 1mm

Fat: 5mm

Muscle: 3mm, 5mm, or 8mm



**Abdominal Tissue Plate**

### Included Layers:

Adult skin, subcutaneous fat, bulk fat, skeletal muscle, rectus fascia, scarpas fascia, and peritoneal membrane.

### Available Sizes:

10cm x 5cm, 10cm x 10cm, 20cm x 20cm

### Overall Thickness:

20–25 mm

### Extraordinary Features

SynTissue synthetic human tissues made from salt, water and fiber – which feature the world's most realistic tactility. The standard adult skin layer exhibits a mean force of approximately 2N in our penetration test, this selection is an appropriate mimic for most skin on the human body (face, forearm, groin, etc.) Skins exhibiting greater penetration values are appropriate for thicker or more callused areas (abdomen, lower back, etc.) of the body. Penetration values 2N, 4N, 8N and 10N are available. Typical human pain threshold occurs in the 2-4N range. Basic model construction employs our patented SynTissue synthetic human tissues. These materials are experimentally designed on the basis of physical tests performed on actual living tissue. The resulting synthetic tissue responds to stimulus much like real living tissue.

### Skin Toughness Options

2N, 4N, 8N, or 10N

### Skin Color Options

Caucasian, Tan, or Brown

### Packaging

Product is packaged in an airtight, vacuum sealed bag.

### Equipment Compatibility

Laser scalpels, electrocautery and RF ablation devices, harmonic blades, monopolar and bipolar devices, plasma knives, ultrasound equipment, and all known imaging equipment.





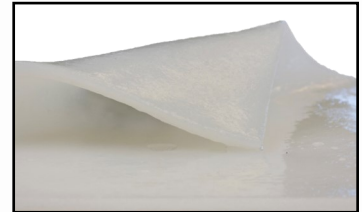
# SynDaver Tissue Plates



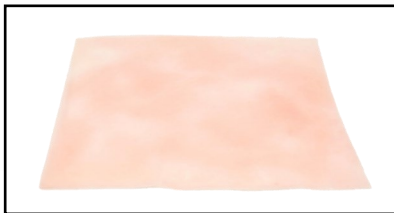
**Abscess Pad  
(149001)**



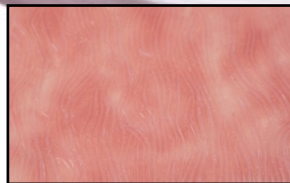
**Cardiac / Arterial / Venous Tissue  
(options available)**



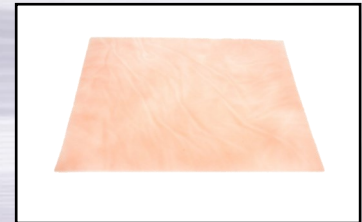
**Rotator Cuff  
(141640)**



**Esophagus Tissue (141600)**



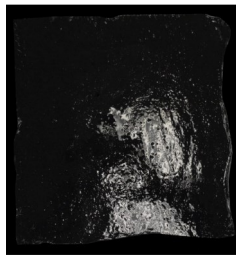
**Vaginal Tissue (141690)**



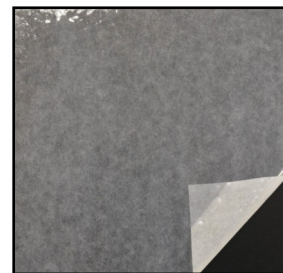
**Stomach Tissue (141670)**



**Fascia Latae (141610)**



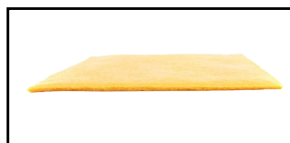
**Mucosal Fascia (141630)**



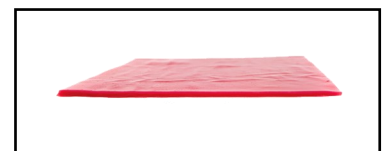
**Fibrous Fascia (141620)**



**Bulk Fat (141550)**



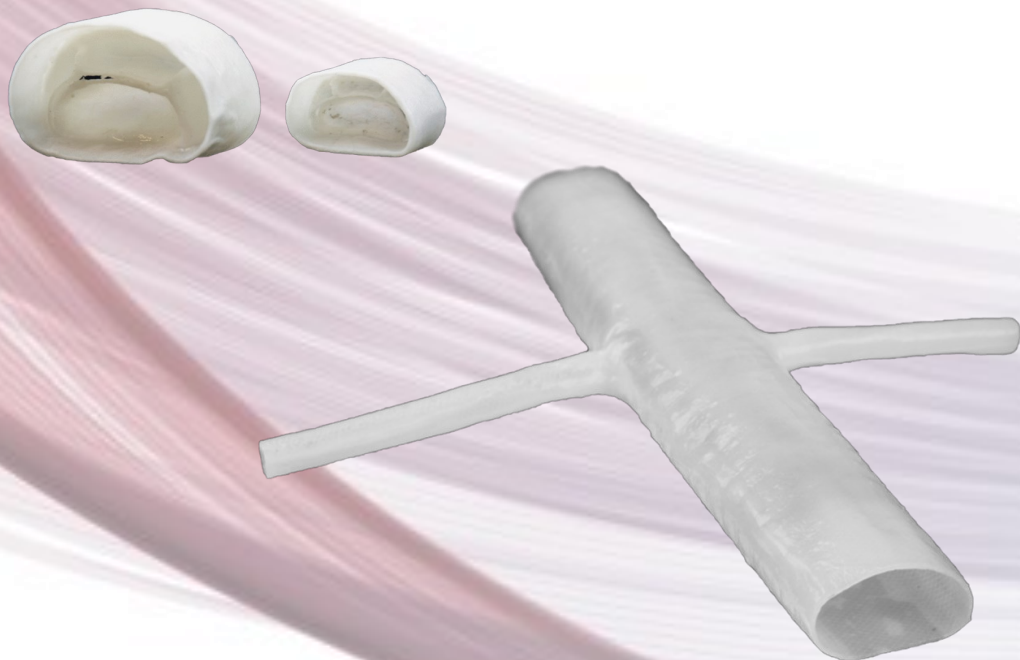
**Subcutaneous Fat  
(options available)**



**Skeletal Muscle  
(options available)**



## SynDaver Synthetic Vascular Models & Pads





## Vessel Pads

Our vessel pads are constructed from SynTissue brand synthetic human skin, subcutaneous fat and skeletal muscle. In addition to using it for teaching basic surgical skills, this pad is useful for practicing venous and arterial cutdown, anastomosis, dissection, cannulation and catheterization. Our portable platform pump (sold separately) may also be used to add the realism of physiological flow conditions to training situations.

The skin layer is realistically textured on the surface and smooth on the subcutaneous side. It incorporates a natural wear layer of dead skin at the surface and three discrete layers (i.e., epidermis, dermis and hypodermis) that move independently from one another. This tissue is designed with extensive input from our medical device clients to exhibit realistic puncture resistance, suture holding, and electrocautery and laser scalpel performance. The subcutaneous fat layer is integrated into the pad via an ultrathin layer of fibrous fascia.



### Basic Vessel Pad

#### Included Layers:

Adult skin, subcutaneous fat, and venous or arterial intima, media, and adventitia.

#### Size:

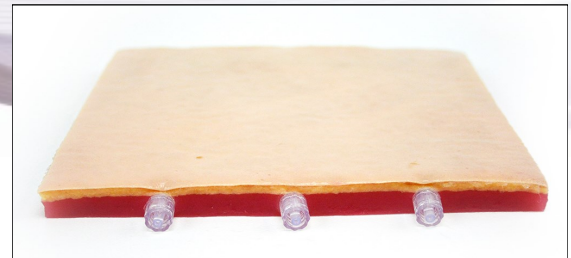
20cm x 20cm

#### Vascular Options:

3mm or 6mm

#### Skin Color Options:

Caucasian, Tan, or Brown.



### Muscular Vessel Pad

#### Included Layers:

Adult skin, subcutaneous fat, skeletal muscle, and venous or arterial intima, media, and adventitia.

#### Size:

20cm x 20cm

#### Vascular Options:

3mm or 6mm

#### Skin Color Options:

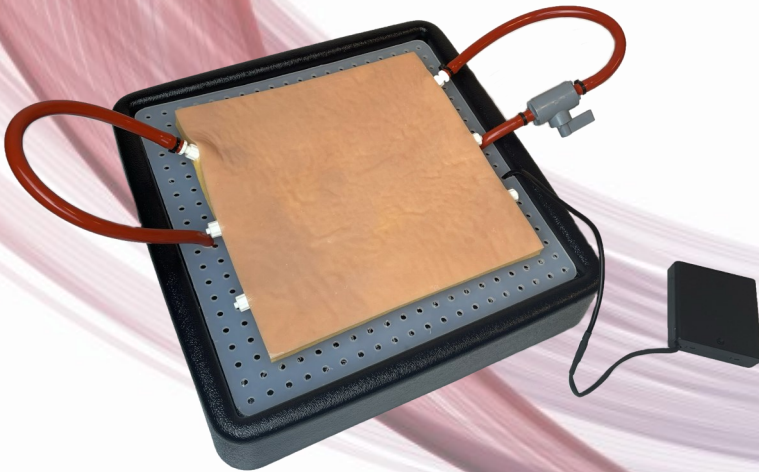
Caucasian, Tan, or Brown.





## Platform Pump

Get the most out of your vessel pad with the SynDaver Platform Pump. This pump is designed for experimentation and training with SynDaver vessel pads. Water or other fluid is pumped through the vessels. The platform includes a DC powered pump that provides a low-rate, steady-state flow through one vascular component at a time. Flow rate is controlled by valves at the proximal and distal ends of the vessel. Pressure is adjustable through a stopcock at the end of the tubing. Flow rate and pressure are both designed to accurately simulate realistic blood flow.



### Components Included

- Platform with 1000 ml Pump Basin
- Removable Perforated Polyethylene Platform
- Impeller Pump
- External battery pack
- Tubes

### Power

The pump comes with an external battery pack. It allows operation up to six hours on a full charge. AA batteries are not included.

### Flow Rate

The flow rate is adjustable from 0 to 100 ml per minute.

### Pressure

The pressure is adjustable from 0 to 120 mmHg.

### Dimensions

The size specifications are 8 in (L) x 12 in (W) x 2 in (D).



(170130)



## SynTissue Vessels

Our SynTissue vessel segments are designed for use in anastomosis and heart valve implantation training. Product is supplied as a single segment which may be reused many times.

This model employs simplified versions of our patented SynTissue brand synthetic human tissues. Designed with extensive input from our medical device, hospital, and military clients, these materials exhibit realistic puncture resistance, suture holding, and electrocautery, laser scalpel and plasma knife performance.

SynTissue brand synthetic human tissue components are designed on the basis of physical tests performed on actual living tissue. The resulting synthetic tissue responds to stimulus much like the real living tissue.



**Mitral Valve (130640)**

**22mm OD**  
**15mm Length**



**Aortic Valve (130630)**

**22mm OD**  
**15mm Length**

### Packaging

Product is individual packed in a heat sealed bag with antimicrobial solution. Shelf life is guaranteed for six months. Consumable item care and maintenance to be followed.

### Extraordinary Features

SynTissue synthetic human tissues made from salt, water, and fiber—which feature the world's most realistic tactility. SynTissue synthetic human tissues match the acoustical characteristic of real human tissue.

### Equipment Compatibility

Laser scalpels, electrocautery and RF ablation devices, harmonic blades, monopolar and bipolar devices, plasma knives, ultra-sound equipment, and all known imaging equipment.



## SynTissue Vessels

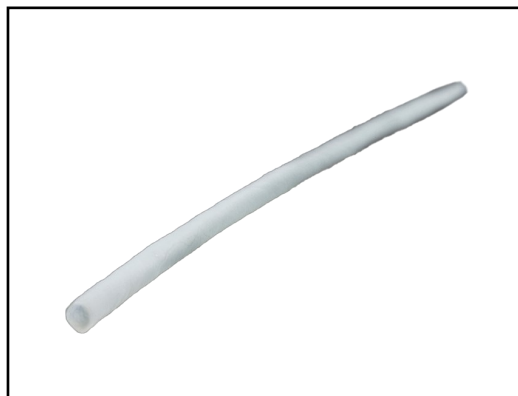


### **Abdominal Aorta (160100)**

25mm ID (Trunk)

6mm ID (Renal Arteries)

20cm Length



### **Straight Artery or Vein Designer**

**Available IDs:** 2-19mm

**Couplings:** 3mm and 6mm Available

### **Additional Vessels Available:**

- **Carotid Artery (160110)**
- 6mm ID, 15cm Length
- **Coronary Artery (160120)**
- 4mm ID, 15cm Length
- **Femoral Artery (160130)**
- 7mm ID, 15cm Length
- **Saphenous Vein (160140)**
- 10mm ID, 15cm Length



### **Simple Aorta (160150)**

25mm ID

15cm Length





## SynDaver Accessories

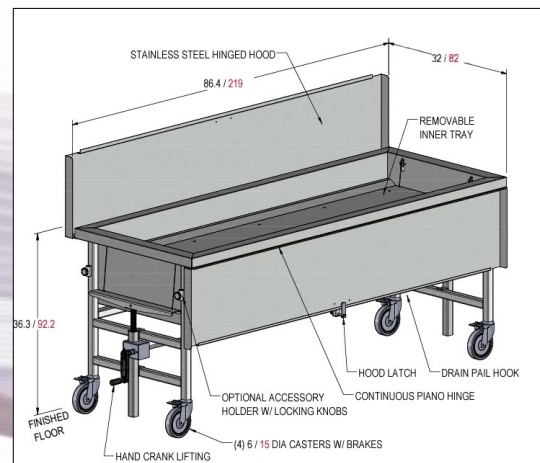




## Immersion Table

When the SynDaver model is not being used, it is kept fully submerged in the table's built-in water chamber to ensure the integrity and longevity of the SynTissue®. When students are ready to interact with the model, a manual-crank-lift mechanism raises the SynDaver Synthetic Human out of its water bath on the inner tray, which enables the retained water to drain into the storage chamber beneath.

(401881)



### Construction Specifications

Stainless steel

Heliarc welded seams and joints ground and polished to a smooth finish

Stainless steel table top fabricated for strength and easy drainage

Stainless steel hinged hood

6-inch casters, all with brake mechanisms

.75-inch ball valve on drain for hose attachment

2-position manual-lifting mechanism; support rails lock inner tray in down position; added length for increased leverage when lifting

### Key Measurements

Overall Dimensions ( $L \times W \times H$ ): 86" x 32" x 38"

Chamber Dimensions ( $L \times W \times H$ ): 80" x 27" x 15"

Water Capacity: 100 Gallons

Shipping Weight: 530 lbs



## Cardiovascular Pump System

Our Cardiovascular Pump System is designed to enable experimentation and training with our SynDaver Surgical Human and Canine Models by providing an active circulation of simulated blood throughout its vasculature. The pump features an adjustable pressure system and pulsatile flow.

Dual pump orientation enables arteries to carry simulated blood toward the cranial end of the trainer and the veins to carry simulated blood toward the caudal end of the trainer. Flow rate and pressure are both designed to accurately simulation realistic blood flow.

### Unit Functions:

Simulation of venous and arterial blood flow.

### Included Components:

12.8V LiFePO4 rechargeable battery, pump, tablet, internal charger and external charge cable.



(170100)

## Anatomy and Physiology 1 Manual

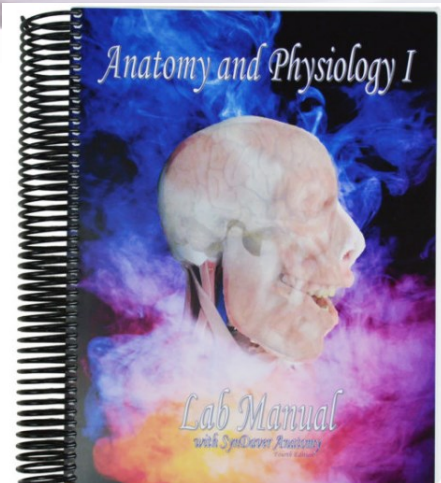
Anatomy and Physiology I Lab Manual with SynDaver Anatomy is a comprehensive lab manual specifically designed for students planning to enter health-related professions.

- Lab Activities
- Full Color Art
- Pre- and Post-Lab Activities
- Surface Anatomy

Pages: 537

ISBN: 978-0-9972005-7-7

Publisher: Soleil Books



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## Suturing Consumables

This supply set includes 10 replacement scalpel blades, 10 sutures, and a set of tissue mounting pins. These components replenish the supplies included in our suturing, anastomosis, and surgical skills kits.



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## Care & Maintenance

SynDaver provides our customers with market-leading medical training and educational models that look, feel, and respond like living tissue—both human and animal. We strive to exceed your expectations, but we are human, so it's possible that on a rare occasion, one of our hand-made products could be delivered with a defect. To address this, we provide comprehensive product coverage from our factory to you for any and all material defects associated with the manufacture or assembly of our standard SynDaver catalog products. Manufacturer's Warranty is offered for 15 days on SynDaver Synthetic Humans and SynDaver Surgical Canines, and 30 days on Skills Trainers and Tissues. Extended Service Agreements are available for purchase for several of our products to extend the life of your investment beyond the standard warranty. Our Customer Care team can be reached at [care@syndaver.com](mailto:care@syndaver.com) or you can visit the Care & Support section of our website at <https://syndaver.com/syndaver-care/>

## Support & Training

SynDaver has a Technical Support Team ready to assist with any questions or to provide additional training as needed. Virtual and onsite demonstrations and training are also available. During product installation for bodies and canines, a SynDaver Technical Support Representative will come spend a day onsite, or will meet with your team virtually, to go over complete setup of your new product, and teach you and your staff how to properly care for and maintain your SynDaver. We are available to answer any questions or concerns, and provide follow up care throughout the length of your product ownership.



For more information about SynDaver Education products, contact your local sales representative, the SynDaver distributor in your country, or visit [www.SynDaver.com](http://www.SynDaver.com)

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