

MC.014—Implantable Tissue Recovery Training

Scientific Merit for Achievement:

The cadaveric specimens provide an opportunity for learners to have hands-on practice and testing with human anatomy. The learners may receive training via three or more ways such as simulation, live animal and NAM. Each of these training modalities provides a different perspective to the overall procedure. Overall, the NAM portion of the training is pivotal for the completeness of the learning process.

Objective:

To perform, teach, and/or perfect various types of tissue recovery processes and procedures in multiple regions of the body that will translate to actual recovery cases in the areas of tissue and organ donation for implantation and/or processing for implants.

Methodology to Achieve Objective:

By utilizing fresh-frozen cadaver specimens, the sponsor will perform, teach, and/or perfect various types of tissue recovery processes and procedures in multiple regions of the body by following as closely as possible the methodology utilized in actual recovery cases. The utmost care will be taken to make the most minimal incision possible to preserve any future potential for research and education, and to maintain the aforementioned consistency with actual tissue recovery cases. The recovered tissue from donors can be utilized for a wide variety of life saving applications, with just a few listed below.

- Bone
 - Used in spinal surgeries
 - Used in reconstructive surgeries to repair broken bones.
 - Large donated bone grafts can be an alternative for people facing arm and leg amputations
- Soft tissue
 - Used to repair tendons and ligaments from sports or other injuries
 - Aids in strengthening the bladder for individuals with incontinence
- Veins
 - Used to restore circulation for people with blocked veins and arteries
 - Donated veins can be used in heart bypass surgery
 - Often used for dialysis access needs
- Eyes
 - Donated corneas are used to restore vision for those who have blindness
 - Donated sclera is used for those who have injured that part of the eye
 - Can also be used for research and for ophthalmology education
- Skin
 - Used as a temporary dressing for burn victims
 - Aids in strengthening the bladder for individuals with incontinence
- Heart Valves
 - Used to replace diseased valves in adults and children
 - Repairs congenital defects in children

The procedures are typically performed by trained technicians or by technicians in training with guidance from qualified faculty. The procedures taught and learned in this course include but are not limited to the harvesting and processing of the humerus, radius, ulna, femur, tibia, fibula, iliac crest, skin, select tendons/ligaments, pericardium, heart for valves, corneas, mandible, and saphenous veins. These procedures will be practiced in order to ensure the accurate and proper technique is utilized in actual recovery cases, so that the gift of tissue donation will be maximized.

Equipment, Supplies, and/or Instrumentation Potentially Required for Methodology:

- General Surgical Instrumentation
 - Surgical Instrumentation and Implants Provided by Sponsor
 - Electrosurgical Unit (Bovie)
 - Suction Source
 - Positioning Board for Lateral Procedures
 - PPEs (Gloves, Gowns, Masks with Shields, Caps, and Shoe Covers)
 - Other specialty items specified by sponsor.
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Qualified Learners/Participants:

These individuals shall include board certified physicians, resident physicians, physician assistants, nurses, and other medical and non-medical learners/participants. Typically, the students are of the same specialties and of the same position in the medical/surgical field, field of study or the medical device industry.

Sponsors Approved in Utilization of Curriculum:

- Category “A”-Sponsors shall mean medical device companies, professional societies, and federal, state or local government agencies.
 - Category “B”-Independent board-certified physicians, healthcare professionals and others shall be subject to MERI’s Sponsor Application process.
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Faculty Approved for Instruction of Curriculum:

1) Client Sponsored Event:

Credentials review of Sponsor’s faculty and other teaching specialists is exempt from MERI’S Academic Review Board review. However, MERI expects that normally maintained faculty, teaching specialists, and Sponsor representatives are educated and trained in the content outlined in the curriculum and have other demonstrated competencies within the specific discipline or field of study to instruct learners so they maintain and improve the quality of medical care by enhancing professional skills. A fully executed “Sponsor Agreement” between MERI and outside organizations shall serve as assurance of faculty competency.

2) MERI Sponsored Event

a) None at this time.

Escorted by MERI Personnel or Non-Escorted:

- Category “A”-Sponsors as listed in “Sponsor Approved for Utilization of Curriculum” are approved to utilize MERI services both escorted and non-escorted.
- Category “B”-Sponsors as listed in “Sponsors Approved for Utilization of Curriculum” are subject to utilization of escorted and/or non-escorted services through MERI’s “Sponsor Application” process.