

MC.008—Plastic Surgery – Reconstructive and Cosmetic

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.

Objectives:

To perform, teach, and/or perfect various types of plastic surgery procedures, both reconstructive and cosmetic in multiple regions of the body that will translate to live patient surgeries with smaller incisions, more precision, less damage to the surrounding tissue, and subsequently faster recovery times.

Methodology to Achieve Objective:

By utilizing fresh-frozen cadaver specimens, the sponsor will perform, teach, and/or perfect various types of plastic surgery procedures, both reconstructive and cosmetic in multiple regions of the body. The utmost care will be taken to make the most minimal incision(s) possible to preserve any future potential for research and education, and to maintain the aforementioned consistency with live patient surgery. Plastic surgery is a medical specialty concerned with the correction or restoration of and function. Though cosmetic or aesthetic surgery is the best-known kind of plastic surgery, many plastic surgery procedures are not cosmetic: plastic surgery includes many types of reconstructive surgery, hand surgery, microsurgery, and the treatment of burns.

- Reconstructive plastic surgery is performed to correct functional impairments caused by burns; traumatic injuries, such as facial bone fractures and breaks; congenital abnormalities, such as cleft palates or cleft lips; developmental abnormalities; infection and disease; and cancer or tumors. Reconstructive plastic surgery is usually performed to improve function, but it may be done to approximate a normal appearance. The range of procedure types performed at the MERI may vary, but will remain within what is considered to be standard practice on living patients.
- Cosmetic or aesthetic plastic surgery involves techniques intended for the “enhancement” of appearance through surgical and medical techniques, and is specifically concerned with maintaining normal appearance, restoring it, or enhancing it beyond the average level toward some aesthetic ideal. Again, the range of cosmetic procedure types performed at the MERI may be broad, even within a single course, but will remain within what is considered to be standard practice on living patients, maintaining dignity and respect for the donor. The most prevalent aesthetic/cosmetic procedures that maybe performed include, but are not necessarily limited to:
 - Abdominoplasty (“tummy tuck”): reshaping and firming of the abdomen
 - Liposuction (“suction lipectomy”): removal of fat deposits by traditional suction technique or ultrasonic energy to aid fat removal

- Buttock augmentation (but implant”) enhancement of the buttocks using silicone implants or fat grafting (“Brazilian butt lift”) and transfer from other areas of the body
- Buttock lift: lifting, and tightening of the buttocks by excision of redundant skin

Mammoplasty:

- Breast augmentations (“breast implant”): augmentation of the breasts by means of fat grafting, saline, or silicone gel prosthetics, which was initially performed to women with macromastia.
- Reduction mammoplasty (“breast reduction”): removal of skin and glandular tissue.
- Mastopexy (“breast lift”): Lifting or reshaping of breasts to make them less saggy, often after weight loss (after a pregnancy, for example). It involves removal of breast skin as opposed to glandular tissue

Facial Procedures:

- Blepharoplasty (“eyelid surgery”): reshaping of the eyelids or the application of permanent eyeliner, including Asian blepharoplasty
- Lip enhancement: Surgical improvement of lips’ fullness through enlargement
- Rhinoplasty (“nose job”): reshaping of the nose
- Otoplasty (ear surgery”/”ear pinning”): reshaping of the ear, most often done by pinning the protruding ear closer to the head.
- Rhytidectomy (“face lift”): Removal of wrinkles and signs of aging from the face
- Browplasty (“brow lift” or “forehead lift”): elevates eyebrows, smooths forehead skin
- Midface lift (“Cheek lift”): tightening of the cheeks
- Chin augmentation (chin implant”): implants to the cheek
- Orthognathic Surgery: manipulation of the facial bones through controlled fracturing
- Fillers injections: collagen, fat, and other tissue filler injections, such as hyaluronic acid
- Laser skin resurfacing

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

- General Surgical instrumentation
- Surgical instrumentation and implants Provided by Sponsor
- C-arm Fluoroscopic Unit with Technician if Requested
- Lead Aprons and Thyroid Shields
- 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

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.