# ISSUED September, 1979

**REVISED May, 2010**

# SUPERSEDES

# TITLE Cardiovascular Perfusionist CLASSIFICATION GRADE 10

# SPECIALTY GRADE 90

BASIC FUNCTION AND RESPONSIBILITY

Provide quality clinical service for patients in heart-lung total body perfusion. Provide regional perfusion for cancer chemotherapy and spinal cord cooling and decompression.. Administer emergency cardiac and other perfusion procedures.

#### CHARACTERISTIC DUTIES AND RESPONSIBILITIES

Operate heart-lung machine during open-heart procedures in the operating room.

Participate in direct patient care during cardiac surgery by providing total or partial body perfusion, with desired temperature control and maintenance of normal physiological function.

Prepare heart-lung machine for use in surgery.

Disassemble and clean by mechanical and chemical means the heart-lung machine and equipment following surgery.

Assemble all necessary tubing and equipment and supplies for sterilization and supervise sterilizing procedures.

Participate in discussions regarding the clinical services provided in the area of assignment.

Design new and modify existing instruments for use in cardiovascular surgery.

Conduct training and/or orientation of staff.

Calibrate pump heads by determining occlusion setting and the flow rate for various RPM's of the pump.

Prepare heparin and protamine dosages for the patient under the direction of the surgeon, including running the activated clotting time studies.

Perform regional perfusion techniques for cancer chemotherapy.

Assemble sterile setup and operate the recirculation pump system for the treatment of spinal cord trauma.

Participate in research laboratory procedures involving extracorporeal circulation techniques

Ensure correct operation of the electro/magnetic flow probe for the determination of intravascular blood flow.

Monitor cardiac output measurements during the post-operative period.

Operate Intra-Aortic Balloon Pump and monitor patient vital signs.

Participate in research and development of cardiac assist devices.

Monitor operation of the Haemonetics Autologous blood separation system either when used as an adjunct to open-heart surgery or as an auto transfusion device for the support of the patient undergoing vascular surgery.

Instruct cardiovascular residents, fellows and other medical staff in the function and theory involved in the techniques and equipment used during cardiopulmonary by-pass to support the patient undergoing open-heart surgery.

Write and publish pertinent clinical and research data involving cardiovascular and extracorporeal devices and techniques.

Maintain effective working relationships with faculty, staff, students and the public.

*In addition to the duties and responsibilities noted above, the position description must include statements from*[*UI Health Care Core Values (WECARE)*](https://uihc.org/mission-vision-and-core-values)*for Health Care positions or*[*Universal Competencies*](https://hr.uiowa.edu/careers/competencies/universal-competencies)*for all other positions.*

#### SUPERVISION RECEIVED

Supervision is received a Director, Assistant Director or other designated official.

#### SUPERVISION EXERCISED

Functional supervision is exercised over support staff.

#### QUALIFICATIONS

A Bachelor's degree in an appropriate discipline or an equivalent combination of experience and education is required.

Completion and graduation from a CAAHEP (Commission on Accreditation of Allied Health Education Programs) accredited cardiovascular perfusion education program.

Certificate or eligible for certification for practice of clinical cardiovascular perfusion as determined by American Board of Cardiovascular Perfusion is required. ABCP Board Certification must be attained within 12 months of hire.

Excellent written and verbal communication skills are required.

Considerable (3-5 years) directly related experience is highly desirable/desirable.