

NON-INVASIVE TECHNOLOGIST

GENERAL STATEMENT OF DUTIES: Performs special procedures related to cardiological testing to provide medical specialists with data in diagnosing heart diseases and disorders; does related work as required.

DISTINGUISHING FEATURES OF THE CLASS: Under the general supervision of the Director of Cardiology, an incumbent of this class is responsible for performing and supervising special non-invasive procedures using highly sophisticated techniques and equipment in order to monitor the movement, sound and activity of the heart. Work involves the administration of tests, such as, electrocardiograms, echocardiograms, Holter monitoring and stress tests, and also in supervising and training lower level technicians in accepted methods and procedures. This requires advanced level professional and technical judgment and independent initiative. Responsibility also involves maintaining adequate supplies and insuring the proper maintenance and repair of equipment by the Bio-Medical Engineering staff. This class is also subject to shift assignment and on-call duty to handle emergency situations. Supervision is exercised over a number of lower level technicians.

EXAMPLES OF WORK: (Illustrative Only)

Implements departmental and hospital policies, and establishes uniform procedures for assigned area;

Prepares patient for phonocardiograph testing;

Operates phonocardiography instrumentation and correlates dual heart sounds with electrocardiographic recordings, as well as those of chest wall movement to determine complex cardiac abnormalities;

Develops, cuts and mounts phonocardiography film;

Records all aspects of phonocardiography testing;

Prepares patient for vectorcardiography testing;

Operates vectorcardiography equipment that provides three dimensional presentation of cardiac electrical activity and allows for the diagnosis of intraventricular conduction distances and myocardial infarction patterns;

Records, develops, cuts and mounts all vectorcardiographic tracings;

Prepares patients for echocardiography testing;

Operates echocardiography equipment to record ultrasound from the heart walls, valves and support structures;

Records all test results to assure diagnosis of structure and valve abnormalities and plural and pericardial effusions;

EXAMPLES OF WORK (continued):

Performs Systolic Time Interval and Apex Cardiography testing when patients condition so indicates;

Develops, cuts and mounts echocardiography results;

Conducts stress tests, using accepted procedures, and monitors and results;

Records all results and prepares appropriate patient reports;

Supervises, trains and evaluates lower level technicians in the performance of these tests;

Maintains an adequate store of supplies used in the Non-Invasive Lab and reorders new supplies when inventory runs low;

Informs Bio-Medical Engineering staff of equipment failure and conducts follow-up on maintenance and repairs;

Attends meetings, conferences and seminars as required;

Instructs Nursing Students, Interns and Residents in the procedures and techniques for the above mentioned tests;

Performs related technical and administrative duties to insure the smooth and effective operation of the Non-Invasive Lab.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Thorough knowledge of modern techniques and procedures used in all phases of Non-Invasive Cardiology; skill in the operation of the standard and special laboratory equipment and apparatus; ability to understand, follow and convey complex technical instruction; ability to train and supervise the work of others; intellectual integrity; accuracy; thoroughness; dependability; physical condition commensurate with the requirements of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: (a) Graduation from a regionally accredited or New York State registered four year college or university with a Bachelor's Degree* in a Biological Science and one year experience in a Cardiology Division of a hospital working with Non-Invasive equipment and performing echocardiograms and stress tests; or (b) graduation from a regionally accredited or New York State registered two year college with an Associate's Degree* in a Science program and three years of experience in a Cardiology Division of a hospital working with Non-Invasive equipment and performing echocardiograms and stress tests; (c) graduation from a standard high school and five years of experience as in (a); (d) an equivalent combination of the foregoing training and experience sufficient to indicate ability to the work.

*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Education Department as a post-secondary, degree-granting institution.

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J. C.: Non-competitive†
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Job Class Code: C2326
Job Group: X