Echocardiography Technologist (Echo Tech) Study Guide


The exam includes questions related to:

- Anatomy and physiology, pathophysiology, including definitions of ECG waves
- Sonographic appearance of abnormalities and diagnostic purpose of selected techniques
- Technique
- Patient Care
- General Safety Practices, including National Patient Safety Goals (NPSGs)

Review the following topic areas:

Patient safety issues such as allergic reactions and issues related to urinary catheter drainage bags (e.g. keep closed urinary drainage systems below the level of the bladder.)

Views and windows, such as suprasternal and parasternal, that are most appropriate for specific diagnostic purposes and to view specific anatomical structures

Definition, characteristics, location of chambers and valves of the heart, relative position of anatomical structures, branches of the vessels, and phases of the cardiac cycle

Electrical activity, including dominant pacemaker, activity represented by ECG waves, and related terminology

Appearance of normal function such as flow across valves, and abnormalities, such as dilated cardiomyopathy

Indications for transesophageal echocardiogram (TEE)

Appropriate location to take measurements such as atrial size

Normal parameters for commonly assessed items such as ejection fraction, flow velocity, and interventricular septum

Technical aspects, such as frequency commonly used in adult echocardiography