

ACTIVE LEARNING TEMPLATE: *Therapeutic Procedure*

STUDENT NAME _____

PROCEDURE NAME Angioplasty

REVIEW MODULE CHAPTER _____

Description of Procedure

Also known as balloon angioplasty and percutaneous transluminal angioplasty (PTA), is a minimally invasive endovascular procedure that is used to widen narrowed or obstructed arteries or veins. A deflated balloon attached to a catheter is passed over a guide wire into the narrowed vessel and then inflated to a fixed size. The balloon forces expansion of the blood vessel and the surrounding muscular wall, allowing an improved blood flow.

Indications

Typically to treat atherosclerosis
Coronary angioplasty - coronary artery disease
Peripheral angioplasty - peripheral artery disease
Renal artery angioplasty
Carotid angioplasty
Venous angioplasty

Outcomes/Evaluation

Improved blood supply to the previously affected area of the body with diminished signs and symptoms of ischemia.

Potential Complications

Embolization; Bleeding from over-inflation of a balloon catheter; hematoma or pseudoaneurysm formation at the access site; radiation-induced injuries from the X-rays used; contrast-induced renal injury; cerebral hyperperfusion syndrome leading to stroke (serious complication of carotid artery angioplasty with stenting)

CONSIDERATIONS

Nursing Interventions (pre, intra, post)

Pre-test:
Confirm the need for angioplasty.
Confirm that it is the right patient, right device, and correct indications
Establish aseptic condition
Conduct patient education
Acquire informed consent from the patient
Intra-test:
Monitor the patient's vital signs during the procedure
Assess for any signs and symptoms of complication of therapy.
Post-test:
Discard all disposable materials used
Help patient into a comfortable position
Continue monitoring for any signs and symptoms indicating complication of therapy.

Client Education

Instruct on what the procedure entails and why they are receiving it.
Outline the potential risks and complications associated with the condition.
Enumerate the benefits of the procedure to their disease prognosis.
Instruct them to report any discomfort following the procedure.

Nursing Interventions

Ensure you follow directions for the procedure to the later.
Employ appropriate techniques and skills to avert the potential for occurrence of complication of therapy.