

Angiogram



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Part I: Overview of Workplace

Allen Hospital was a gift from Henry and Mary Allen. After Mary died in 1913, Henry donated 80 acres of land and \$200,000 to build a hospital in Mary’s name. The original building still stands, surrounded by many additions. Half of Allen’s patients come from the neighborhoods of Black Hawk County, and the other half come from surrounding counties. Allen joined Unity Point in 1995 which symbolizes the difference between the former hospital-centered health care process to one that more effectively addressed the total care of all patients, whether they were at a clinic, a hospital or home. Everyone comes to Allen looking for the comfort, care, and compassion. Allen strives to make sure that the Allen family promise is well-kept and still upkeeping the Unity Point vision of providing the best outcome for every patient every time.

Part II: Workplace Focus

Allen Hospital is often recognized as one of the top heart care programs nationwide. The physicians and staff are committed to the highest level of heart care for patients. They use top of the line instruments to aid their patients to obtain the vision which revolves around offering coordinated care in the hospital, in the clinic and at home.

Cardiologists at the Cedar Valley Cardiovascular Center are proud to partner with UnityPoint Health to offer the highest level of cardiac care for patients in Northeast Iowa. These professionals feature advanced treatments and a wide range of services which can include Cardiac and vascular surgery, cardiovascular imaging, advanced heart failure treatment and care, heart disease prevention, therapy, and cardiac and pulmonary rehabilitation.

Part III: Introduce the Problem

A woman has come into the ER with chest pain and shortness in breath. What could be her diagnosis?

Part IV: Background

In order for students to be successful and effective in this case, they will need to have a general understanding of the following:

- Read and interpret an EKG
- Systolic and diastolic pressure along with normal ranges
- General anatomy of the heart
- Artery vs vein
- Angiogram
- Angioplasty, stent, and bypass surgery procedures
- Brief knowledge of radiology

The cardiologists among other staff members at the Heart and Vascular Center use a variety of tests, but the angiogram is performed to aid where a blockage is located along with procedures to open the vessel to allow blood flow.

Part V: Workplace Solution

Once the blockage has been located, a series of other procedures can occur to reopen or bypass the blockage to allow blood flow through the artery such as:

- Angioplasty
- Stent
- Bypass surgery

Part VI: Educational Pathways

There are many different professionals that need to be present during an angiogram. The different careers can include: registered nurse(s), scrub, radiologist, anesthesiologist, and a cardiologist.

Registered Nurse (RN): There are many different routes an individual could take to get their RN. Most get their general credits at a community or university, then spend two years getting their nursing degree at a nursing school. Generally 5 years.

Scrub: Two year program at a community college or university.

Radiologist: Two year program at a community college or university.

Anesthesiologist: Four year bachelor program at a university, four years at medical school, three years of clinical. Around 10 years total.

Cardiologist: Four year bachelor program at a university, four years at medical school, two to three years of clinical. Around nine years total.