

## **SUMMARY**

Cardiac catheterization minimally invasive which a long, thin tube called catheters guided into heart, usually through a blood vessels in the leg or arm. Once inside the heart, it can be used to diagnose a problem (diagnostic uses) or to treat a problem (therapeutic uses). Cardiac catheterization is a general term for a group of procedures that are performed using this method, such as coronary angiography, as well as left ventricle angiography. Once the catheter is in place, it can be used to perform a number of procedures including angioplasty.

Coronary catheterization is one of the several cardiology diagnostic tests and procedure, Specifically, coronary catheterization is a visually interpreted test performed to recognize occlusion, stenosis, restenosis, thrombosis or aneurysmal enlargement of the coronary artery lumens; heart chamber size; heart muscle contraction performance; and some aspects of heart valve function. Important internal heart and lung blood pressures, not measurable from outside the body, can be accurately measured during the test. The relevant problems that the test deals with most commonly occur as a result of advanced atherosclerosis, atheroma activity within the wall of the coronary arteries. Less frequently, valvular, heart muscle, or arrhythmia issues are the primary focus of the test.

### **This study will aim:**

To assess nurses performance in management and prevention complications for patients undergoing cardiac catheterization .

### **Research questions:**

1. What are the most common satisfactory areas of in nurse's performance regarding the cares patient?

2. What are the most common areas of neglecting in nurse's performance regarding the cares patient?
3. How to prevent complication?

**Subject and method:****Research setting:**

This study was conducted in the cardiac catheterization units, these units at Benha University Hospitals and National Heart Institute.

**Subjects:**

All available nurses (50nurses) are working at the above mentioned setting.

**The data collection tools contained two sheets:****1- Questioner sheet contain two parts:**

- A-Sociodemographic characteristic.
- B-Nurses Knowledge sheet.

**2-The observational checklist sheet:****Result:**

The results of the study showed that:

- The majority of nurse's ages were among the age group more (>30 years).
- In relation to level of education, it was found that the majority of nurses had a diploma in nursing.
- Regarding training program, it was found that the majority of nurses had no training program.
- It was found that the majority of the study nurses had un satisfactory
- Knowledge about and satisfactory practice level about cardiac catheterization for patient.

- There was highly a statistical significant in relation between nurse's knowledge scores and level of education.
- There was correlation between knowledge, age and years of experience.
- There was a negative correlation between practice, age and experience.

**Conclusion:**

After the observation nurses knowledge and performance in cardiac catheterization, The study showed that unsatisfactory in knowledge of nurses with satisfactory in practices, positive correlation between age and knowledge, married nurse have satisfactory knowledge than unmarried nurses, increase knowledge in nurses with diploma degree, significant statistical relation between knowledge and age, years of experience, marital statues and qualification.

**Recommendation:**

1. Caring of patient undergoing cardiac catheterization should be included in the curriculum of nursing school and institute as a minor specialty.
2. Continues in-service training programme may motivate the nurses working in cardiac catheterization unites to achieve the standard of nursing care given to patient.
3. An educational programme for nurses to increase the performance about care of patient undergoing cardiac catheterization and assess the impact of this programme.
4. Ansemplified and comprehensive illustrated booklet including nursing care strategy for care of patient undergoing cardiac catheterization should be available for nurses.