

Quantitative Research Methods

# Module 1



# Nursing Knowledge and Research

- Research is the foundation for the development of nursing knowledge and improves nursing practice using scientific methods.
- Improving nursing practice improves the quality and effectiveness of urologic nursing care and promotes the health and well-being of the urologic patient.

# Purpose of Research

- Obtain new knowledge
- Solve a problem
- Make a decision about care
- Develop a program, procedure or problem
- Evaluate a program, procedure or problem

# Steps in the Research Process

- Select a topic that is of interest to you or ask yourself, "What is a problem would I like to solve?"
- Review the literature to find out what is already known about your topic.
- Develop a research design. (quantitative/qualitative/or mixed methods)
- Define the population you want to study.
- Determine how you will collect the data.
- Collect the data.
- Analyze the data.
- Report the results of your study.

# Quantitative Data Collection

- Questionnaires and surveys are examples of quantitative data collection instruments.
- Pencil and paper questionnaires can be completed by patients in the waiting room, or they can be completed online.
- Instruments for data collection can be found online for free or they can be purchased or used with the permission of the developer.
- Two examples of valid instruments used in urology to assess urinary incontinence in adults are the Urinary Distress Inventory -6 (UDI-6) and the Incontinence Impact Questionnaire-7 (IIQ-7).

