

Discussion - Journals

Getting to know each other as researchers, introduce yourself and share the name of a **nursing journal** and a **non-nursing journal** that includes original research studies that you read regularly. Also, describe past/current work experiences that make you a research consumer? Research participant? Or Research producer?

Discussion – Quantitative Research

After viewing the videos/reading the text, please discuss the following:

- Discuss the benefits and limitations of quantitative research?
- What are the positive factors and negative factors of using a controlled environment?
- Were the research topics studied in the videos significant? What makes you say that? (elderly risk of fall, babies with downs syndrome and walking, elderly in the community)

Discussion – Central Tendency

Discuss what mean, median, mode and range mean to you. Give examples of how you would use or do use these tools in your work or personal life.

With your example, discuss why that particular measure of central tendency was used and whether or not it was used correctly.

Discussion - Normal probabilities in real life

What are the cases where you have dealt with or know of data that is normally distributed? How did you know? What are the assumptions you can make about this collection of data and what are some of the questions you could ask that could use this data?

Discussion - Using Binomial Distribution

Please discuss how you would apply the binomial distribution to your profession.

That is, in what situations do you need to determine the likelihood of two (or more) outcomes or at least know when one of the outcomes is more favorable.

Discussion - Central Limit Theorem

Please discuss the importance of constructing a proper sample from a population and what can happen to your data if you don't.

For example your doctor has put you on a new medication that has only been tested on middle-aged men living in Finland. Are you a member of the same population that they are? Would you be considered a sample member of their population?

Please provide an example from your own profession. Please be sure to include the usefulness and limitations of this kind of sampling.

Discussion - Hypothesis Testing

How is hypothesis testing used in your job? Under what circumstances would you have a need to do this and what are some of the potential problems you could run into? For example, are the Null and Alternate hypothesis correctly constructed?

Discussion - Straight Line Models and Forecasting

A straight line model is an efficient forecasting tool. Why would this be and how does regression aid in such modeling? Can you give some examples?

Discussion – Chi Square

Please comment on where you would use the Chi Square techniques and their value to you. How would you know when to use the Chi Square or not?

Discussion – Non Parametric statistics

Given the examples in your text and your own experiences, what sorts of data are non-parametric in nature? How might you test these data samples?

Discussion – Nursing Research

As nurses you face clinical problems every day. Where are the gaps in what you know? What bothers you about your practice (e.g. staffing patterns, patient acuity, civility, collaboration) or the patients you care for (wound care, fall risk, preoperative instruction, documentation by computer)? I suggested broad issues as you will do, however, as a next step you will need to narrow that topic to find a problem that is researchable. For example, what is going on with patient falls? Who is falling? Are they getting injured? Why do they fall? What causes the fall? What is the relationship between falling and functional status? Reading a few current articles on the topic of falls might help me find a research topic. Also, dialoging with my peers at work might help me find a question that we need to answer. We will help each other to find a topic. Generate a list (3 or more) of topics of interest. As you narrow your topic you may be able to write the question in the PICOT format.

Discussion - Evidence Based Practice

Describe your experiences with evidence based practice in the workplace, amongst nurse colleagues, or in your own professional experiences.

Discussion - Ethics in Research and Popular Media

Discuss the effects that unethical research has on the general populace and the clinical population (i.e., potential research participants), and what happens when these studies are picked up by the popular media. If possible, cite an article in the popular media (i.e., not professional sources) that relates to research misconduct, falsification of research data, or other forms of unethical conduct.