

Informatics and Evidence-Based Practice

Evidence-Based Practice

A group of nurses were discussing evidence-based practice and research. A nurse's aide overheard their conversation and said, "Excuse me, but what is evidence-based practice?" Which of the following statements best describes evidence-based practice?

Evidence-based practice is knowledge from nursing theories.

Evidence-based practice is the same as clinical decision making.

Evidence-based practice is practice based on objective, credible knowledge.

Evidence-based practice is findings from randomized clinical trials.

Evidence-based practice (EBP) is practice based on objective, credible knowledge. Randomized clinical trials and theories can contribute to EBP but more information is needed to know if they are credible. EBP helps guide clinical decision making, but it is not the same thing.

First Step in Research Process

A nurse needs to do scholarly work for her doctoral project. Before the research process can begin, what is the first step?

Design the project

. Develop a plan .

Disseminate research findings .

Describe the problem .

The first step in the process is – Describe the problem.

The phases of the research process include (Houser, 2018; Polit & Beck, 2018):

defining and describing the problem

developing a plan to gather information to address the problem

designing the study

implementing the study

analyzing and interpreting the

results disseminating the findings

application/use

References

Houser, J. (2018). Nursing research: Reading, using, and creating evidence (4th ed.). Jones and Bartlett.

Polit, D., & Beck, C. (2018). Essentials of nursing research: Appraising evidence for nursing practice (9th ed.). Wolters Kluwer.

Adoption of Evidence-Based Practice

After learning more about the safety and security of electronic records, a chiropractor decided to switch from paper to electronic records. The administrative staff is resistant because they like the way it has always been done. One assistant admits she "doesn't like learning new systems, especially computers." What would be the correct response by the chiropractor? Select all that apply.

"Using electronic records is evidence-based."

"You're right, we can continue to use paper records."

"We all need to adopt electronic records for safety and security reasons."

"Not everyone needs to use electronic records. We will keep paper ones as well."

"If we don't all use the new records, the situation may be worse."

If the change is based on evidence, it should take place, and the use of electronic records is one example. If one person changes but no one else in the organization changes, the net effect could be to make the situation worse rather than improve it. Think of the safety and security issues if both paper and electronics are used. Sometimes change needs to occur in order to increase quality of care.

The Research Process

Nursing research is a disciplined and systematic process. Which of the following is usually the first step in the research process?

Select a design that is appropriate for the study.

Determine an appropriate theoretical framework for the study. Complete a systematic review of the literature.

Identify a gap in knowledge or problem related to practice.

The first step in the research process is – Identify a gap in knowledge or problem related to practice.

The phases of the research process include (Houser, 2018; Polit & Beck, 2018):

defining and describing the problem;

developing a plan to gather information to address the problem;

designing the study;

implementing the study;

analyzing and interpreting the

results; disseminating the findings;

and application/use

References

- Houser, J. (2018). Nursing research: Reading, using, and creating evidence (4th ed.). Jones and Bartlett.
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Steps in Data Mining

The data analyst has completed the exploration of data. What should the analyst do with the data now?

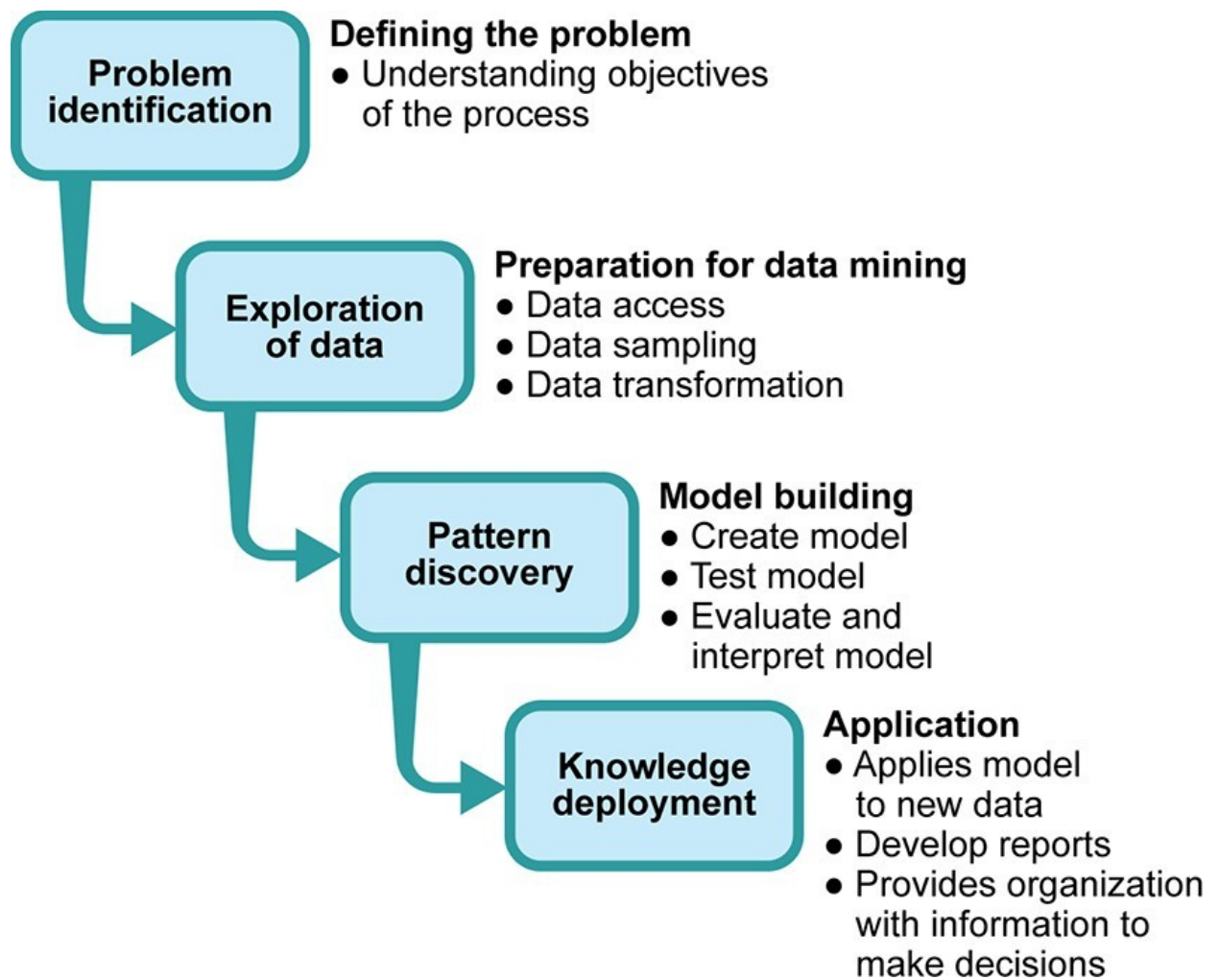
Disseminate findings

. Identify the problem

. Develop reports .

Create a model .

After exploration of data, the next step is to discover patterns and create a model. Identifying the problem is part of the first step. Developing reports and disseminating findings is the last step.



Determining Design

A nurse scholar is conducting a research project. How is the design of the research determined?

type of analysis used

type of theory used

by the purpose of the project

the number of subjects needed

The purpose of the study will serve as the basis for the design choice. The number of subjects, theory used, or types of analysis will not determine the design. The design is selected at the beginning of the research process.

Evidence

A healthcare organization has a high number of client complaints about their discharge information. They want an evidence-based process for discharging a client. Which source is the strongest evidence?

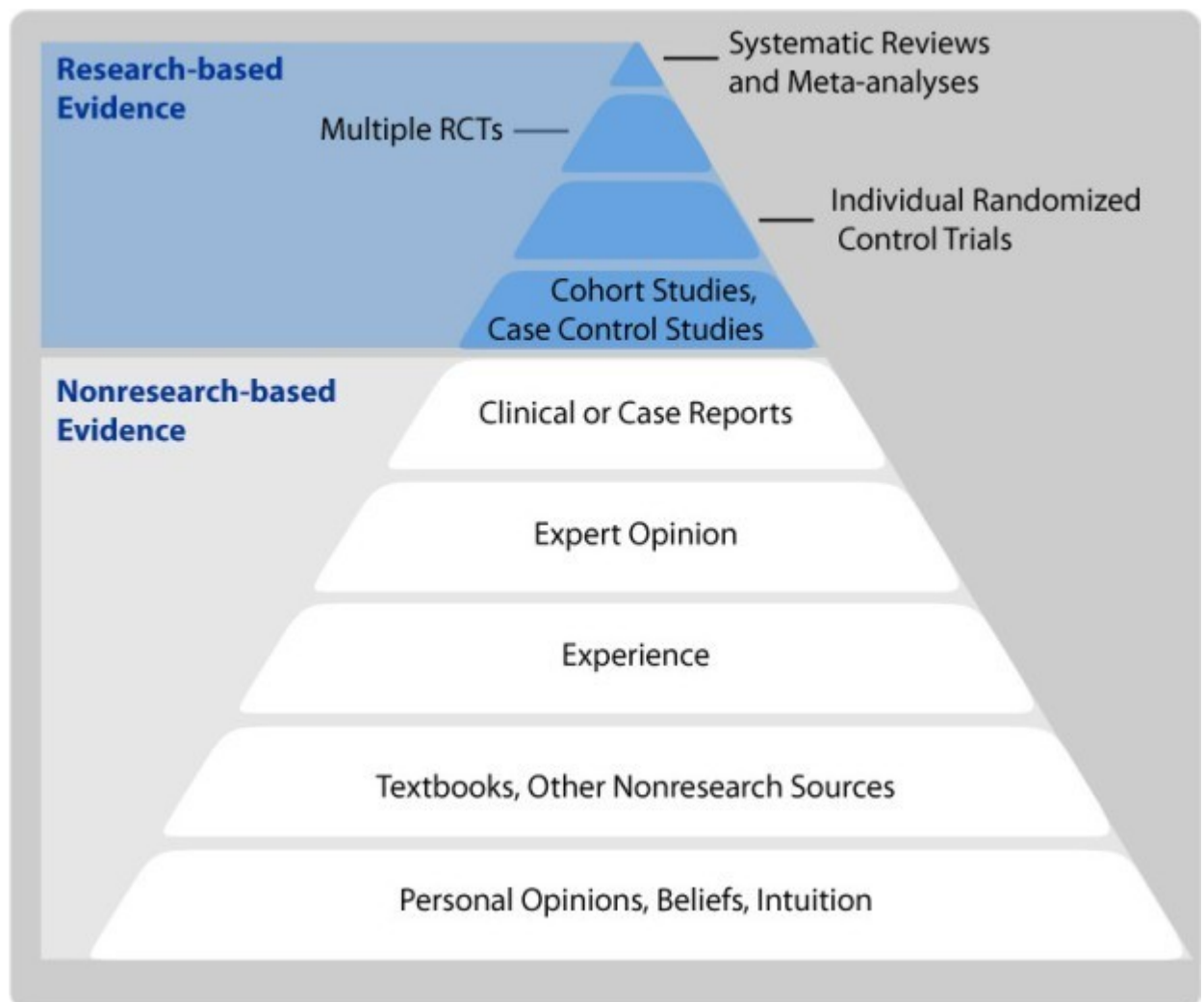
nurse's experiences

expert opinion

research based studies

client opinions

Research based studies are the highest level of evidence (represented in the blue). Opinions and experiences, although helpful in data collection, are not the strongest evidence.



Barriers to Evidence-Based Practice

What are the main reasons that organizations are slow to adapt to evidence-based practice (EBP)?
Select all that apply.

change