

Chapter 6

Theory and Nursing
Research

2023

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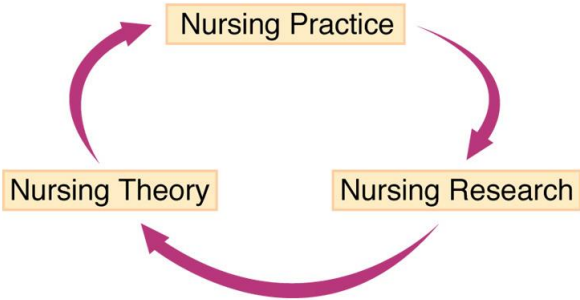
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قانون نيوتن للجاذبية

- ينصّ قانون نيوتن للجاذبية على وجود قوة تجاذب بين كل جسمين في الكون، وتتناسب هذه القوّة طرديّاً مع حاصل ضرب كتلتيهما، وعكسياً مع مربع المسافة بينهما، وقد طرح نيوتن هذا القانون في عام 1687م، واستخدمه لشرح حركات الكواكب وأقمارها، ويعبّر عن هذا القانون بالرموز بالشّكل التّالي:
 - $ق = ج \times ك1 \times ك2 / ف2$
- حيث إنّ: ق: قوة الجذب، ج: ثابت الجاذبية، ك1: كتلة الجسم الأول، ك2: كتلة الجسم الثاني، ف2: مربع المسافة بينهما.

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Key Terms

- “Theory is a set of related concepts and statements that describes or explains phenomena in a systematic way”
- Set of interrelated construct (concepts), definition, and propositions that present a systematic view of phenomena by specifying relationship between variables. With a purpose of explaining and predicting phenomena.

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Key Terms

- Concept: is a building block of theory.
 - Mental idea of a phenomena
 - It is word that symbolize some aspect of reality.
- Construct: highly abstract, complex phenomena. Is a term used to indicate phenomena that cannot directly observed but can be inferred by concrete indicator of phenomena. Ex wellness, self esteem

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Proposition

- **It is a statement or assertion of relationships between concepts**
 - **Statements come from theories**
- Ex. There is a relationship between pulse rates and respiratory rates.**
- **Generalizations based on empirical data**
 - **Also assert that one variable cause another variable e.g. bacteria cause disease**

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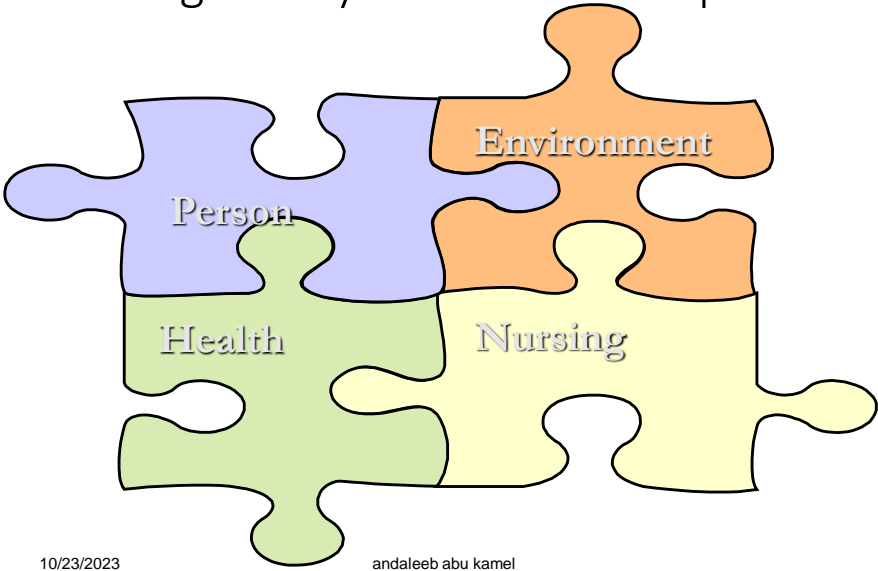
Key Terms

- **Hypothesis: statement that predict a relationship between two or more variables**
- **Researchers’ expectation about the outcomes of the study. (hypothesis can be tested)**
- **Model: a symbolic representation of some phenomena; structural and diagrammatic form**
- **Conceptual model: made up of concept that state the relationship between the concepts**

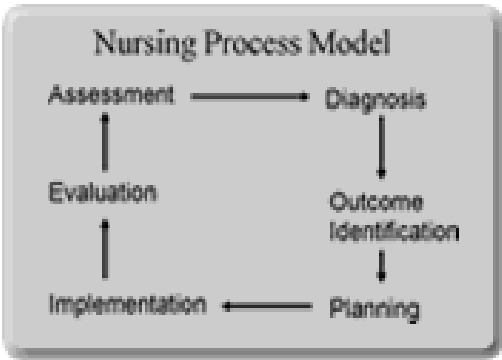
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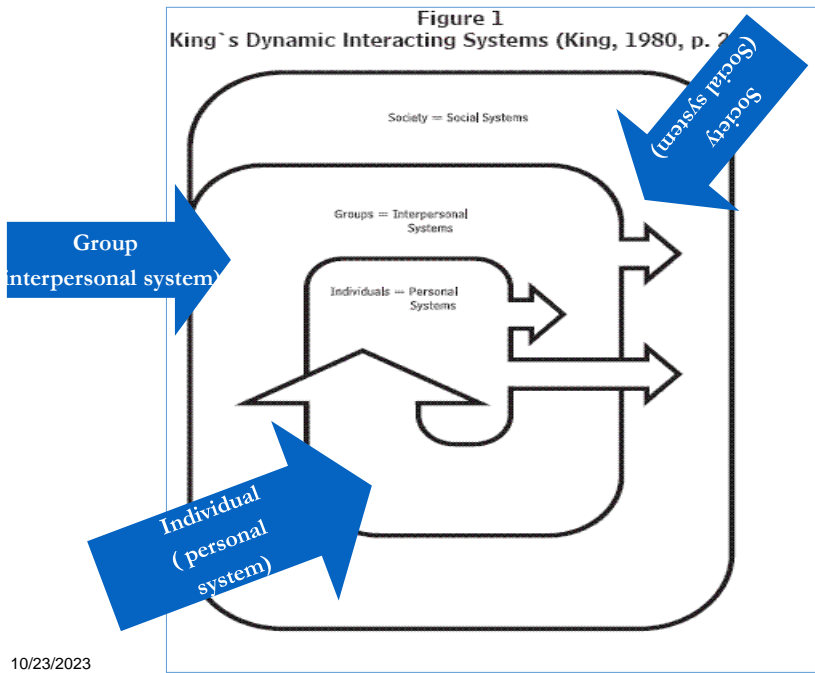
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Nursing theory common concepts



Nursing process model

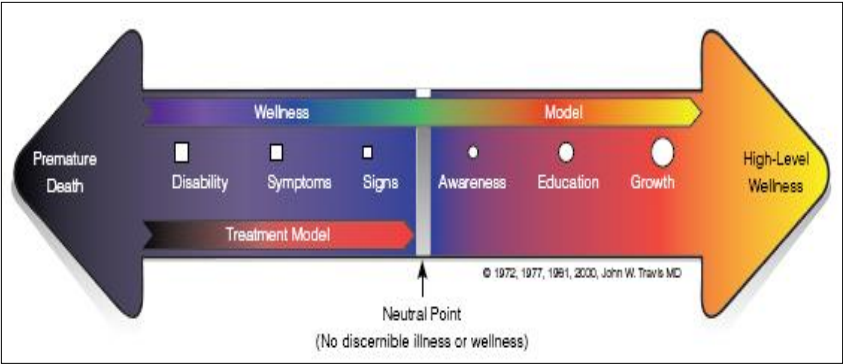




Example using Orem's model:

McCaleb and Cull (2000) studied the influence of sociocultural characteristics and economic circumstances on the self-care practices of middle adolescents, using Orem's model as the framework.

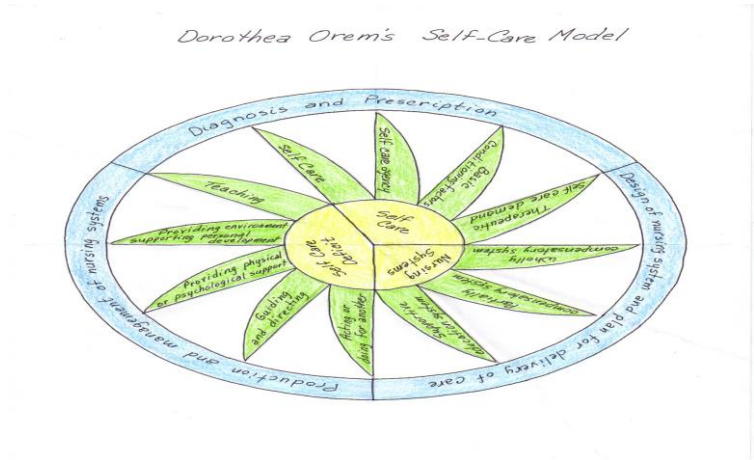
Health-Illness Continuum Travis's model



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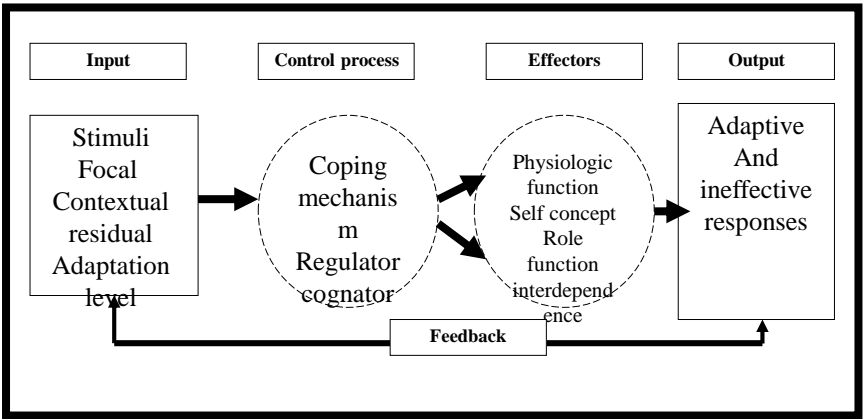
Nursing conceptual model Orem Self Care



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Roy Adaptation Model



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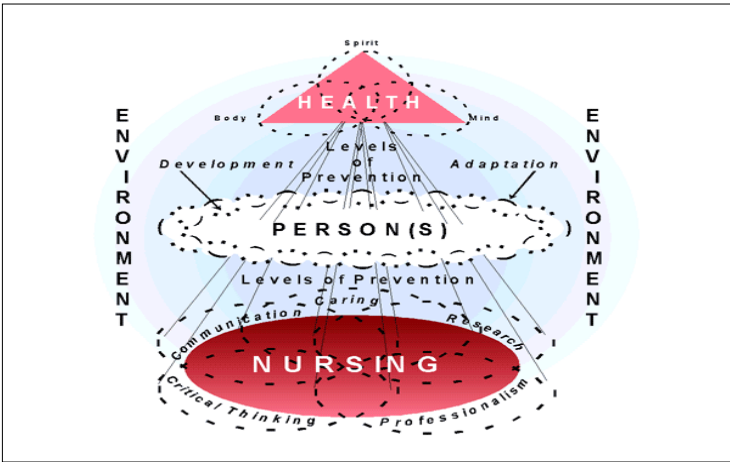
Example using Roy’s model:

Cook, Green, and Topp (2001) explored the incidence and impact of physician verbal abuse on perioperative nurses, using the Roy Adaptation Model as their conceptual framework. The researchers examined how nurses used adaptive coping behaviors and problem-focused skills to deal with the abuse.

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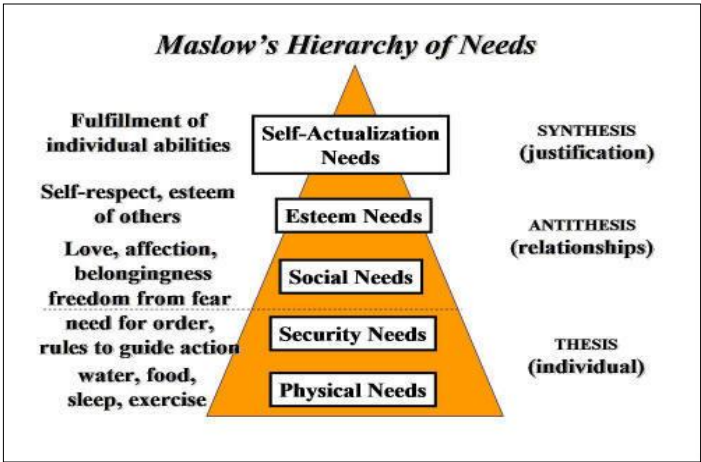
Mind and spirit theory



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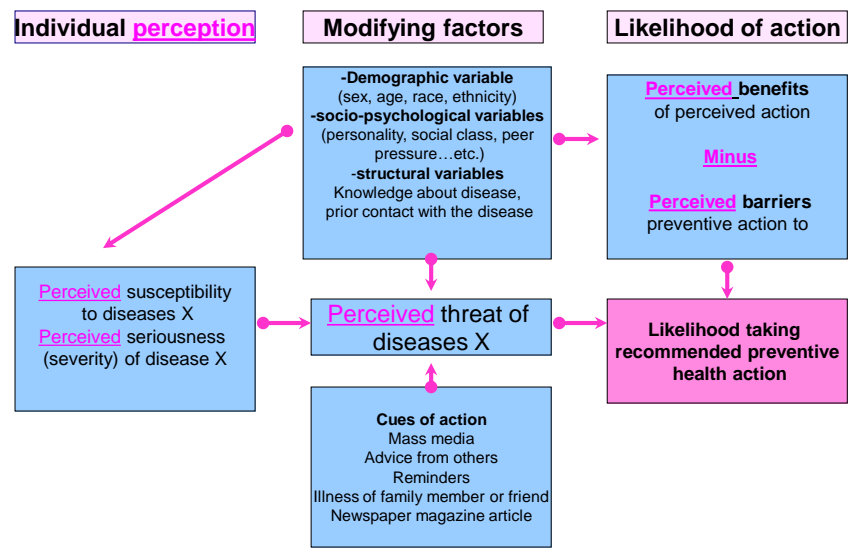
Maslow’s hierarchy



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Health Belief Model Constructs



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Example using the HBM:

Petro-Nustas (2001) used the HBM as the theoretical framework for a study of young Jordanian women's health beliefs toward mammography as a screening procedure for breast cancer.

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Theory generation

<ul style="list-style-type: none">•<u>Deductive reasoning</u>•Proceed from general (theory) to the specific (empirical data).	<ul style="list-style-type: none">•<u>Inductive reasoning</u>•Proceeds from the specific (empirical data) to the general (theory).
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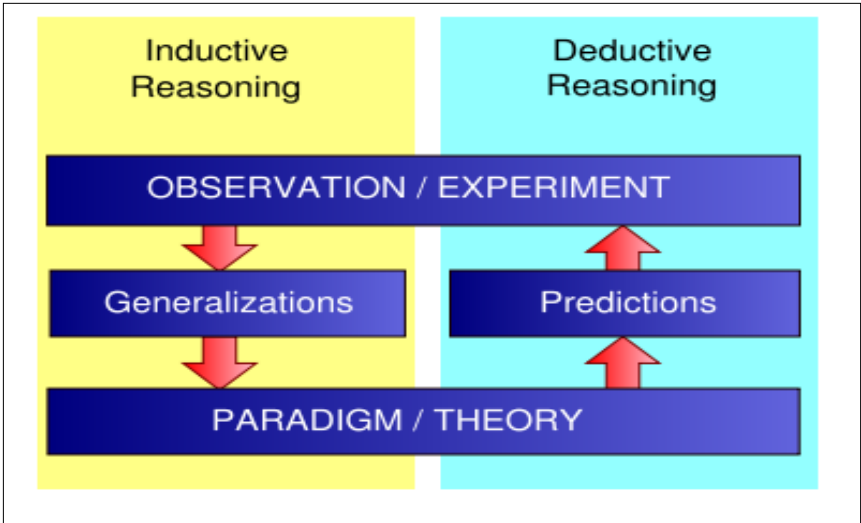
Theory Generation and Development

Deductive Reasoning	Inductive Reasoning
<ul style="list-style-type: none">• Moves general to specific• Uses general (theory)• Hypothesis is deduced• Empirically tested done	<ul style="list-style-type: none">• Moves from specific to general• Empirical data is obtained• Empirical generalizations are made• Propositional statements are produced• A theory is developed

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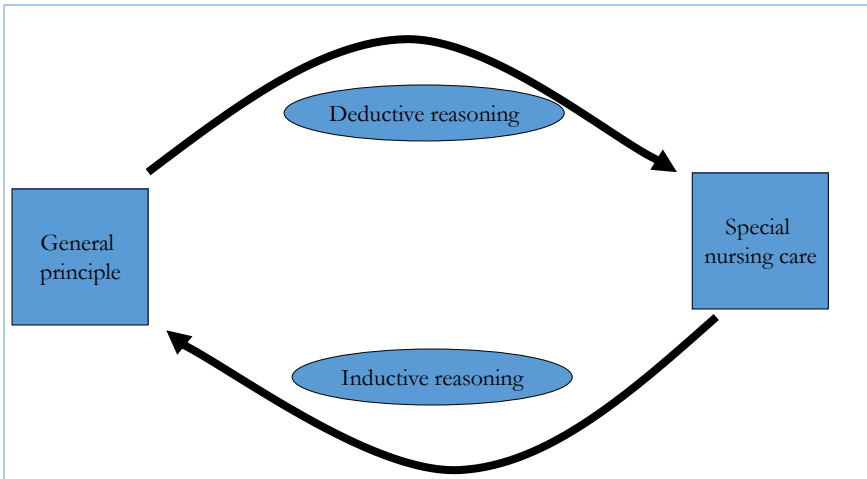
Theory generation and development



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Logical reasoning



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