



Outcomes

At the end of this lecture, the learner will:

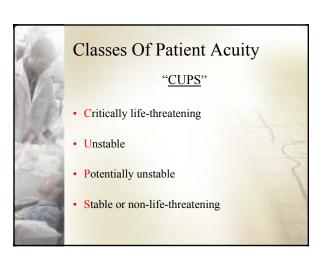
- Begin to learn how to analyze collected clinical data.
- Begin to learn how to identify and prioritize a
 patient's problems and differentiate between critical
 life-threatening, potentially life-threatening, and nonlife-threatening patient presentations.
- Begin to learn how to form a plan of action together with paramedic partner, other members of the healthcare team, and with a patient and to become familiar with the characteristics of protocols, standing orders, and patient care algorithms.

Outcomes, continued

- Be aware of the out-of-hospital conditions that can influence clinical decision making
- Describe the effects of the "fight or flight" response and its positive and negative effects on a paramedic's decision making.
- Become aware of strategies for preventing the adrenaline response from interfering with clinical judgment.
- Remember the model for reassessing the patient management " midstream " and at the end of the patient encounter.
- Define Brady's components, stages, and sequences of the critical-thinking process for paramedics.
- · Summarize the "six Rs" of putting it all together .

Critical Decision Making Need for critical decision-making Have a plan and rules of patient management Situations may appear totally unfamiliar Have a strategy of always returning to the rules

Clinical Judgment Recognizing patient acuity Anticipate problems and act before they occur Who poses the greatest challenge to critical-thinking abilities? Use of protocols and algorithms See algorithm for newborn resuscitations Fig. 4-1 (15.4 of 2 p.239) Avoid a linear thinking that protocols Consulting your partner and medical direction physician Maintaining composure



-	Protocols and Algorithms
V	• Protocols
120,	Standing orders
	• Algorithms

Steps in Decision Making • Form a concept • Collect and interpret data • Apply principles • Evaluate • Act • Reflect

Clinical Decision Making Skill that is developed with time and experience Anatomy, physiology, pathophysiology Knowing principles of prioritizing Differentiating between relevant and irrelevant data Organizing information (history, physical exam) Develop plan Reevaluate patient / evaluate the effects of your treatments Final evaluation Analyzing and comparing similar situations Explaining decisions / Constructing logical arguments

Skills of Clinical Decision Making • Ability to think under pressure and make decisions must be developed • Fundamental knowledge and abilities - Knowing anatomy, physiology, and pathophysiology - Focusing on large amounts of data - Organizing information - Differentiating between relevant and irrelevant data - Analyzing and comparing similar situations - Explaining decisions and constructing logical arguments

Behaviors for Decision Making • Behaviors that facilitate judgment - Stay calm - Plan for the worst - Work systematically - Remain adaptable - Stay oriented

Thinking Styles • Reflective vs. Impulsive - Reflective: acting thoughtfully, deliberately, and analytically - Impulsive: acting instinctively, without stopping to think • Divergent vs. Convergent - Divergent: Taking into account all aspects of a complex situation - Convergent: Focusing on only most important aspect of a critical situation • Anticipatory vs. Reactive - Anticipatory: Looking ahead proactively to potential ramifications of actions - Reactive: Responding to events after they occur

Thinking Under Pressure Physical influences may help or hinder ability to think clearly • Autonomic nervous system: "fight or flight" hormones (Epinephrine, Norepinephrine) • Pseudo-instinctive: learned actions-practiced until they can be done without thinking • Paramedic mental checklist - Scan the situation. - Stop and think. - Decide and act. - Maintain control. - Reevaluate / reassess

Optimizing Patient Care • Effectively analyzing data and devising a practical management plan • Form a concept — Scene size-up and initial assessment — Focused history and physical exam • Interpret the data — Consider the most serious condition that fits your patient's situation. — When diagnosis is elusive, base treatment on presenting signs and symptoms.







Scenario / Patient Acuity Practice

Write a brief scenario of a patient illness(not injury). Make sure to include scene and vital signs. Mention the dispatch information that would be given to the responders. Classify the situation as a critical life-threat, potential life-threat, or non-life-threat describe some scene size-up information, and determine if this would change the initial (post-dispatch) classification.



Summary

Clinical decision making is not a pat perfectible skill, but rather an art developing throughout careers; based on accumulated knowledge, experience, and upholding of attitude.