

The Adult Learner Emergency Medicine

Gloria J. Kuhn, DO, Ph.D, FACEP
Wayne State University
USA

Rich Fund of Knowledge Didactic

- **Medical School**
- Residency
- Career

Sparse Knowledge Experience

- Medical School
- **Residency**
- **Entire Career**

Experience

- Reorganization
- Meaning to Information
- Observation
- Illness scripts
- Problem-solving

How Doctors Think

- Gather Information

How Doctors Think

- Thinking
 - Hypothetico-deductive reasoning
 - Pattern matching (illness script)
 - Combination

How Doctors Think

- Gather Information
- Thinking
 - Hypothetico-deductive reasoning
 - Pattern matching
 - Combination
- Form hypothesis
 - Differential Diagnosis

How Doctors Think

- Decision
 - Differential diagnosis

How Doctors Think

- Decision
 - Differential diagnosis
- Proof
 - Clinical exam
 - Tests

How Doctors Think

- Decision
 - Differential diagnosis
- Proof
 - Clinical exam
 - Tests
- Final / Working Diagnosis

How Doctors Think

- Decision
 - Differential diagnosis
- Proof
 - Clinical exam
 - Tests
- Final / Working Diagnosis
- Conclude

- Treat

Emergency Physicians

- Gather Information

- Gather Information

Emergency Physicians

- Gather Information

- Gather Information
- Interrupt for Treatment

Emergency Physicians

- Gather Information

- Decision
 - DD

- Gather Information
- Interrupt for Treatment
- Decisions on Incomplete data

Emergency Physicians

- Gather Information

- Decision
 - DD

- Gather Information
- Interrupt for Treatment
- Decisions on Incomplete data
- Multitasking

Emergency Physicians

- Gather Information
- Decision
 - DD
- Proof
- Treat
- Gather Information
- Interrupt for Treatment
- Decisions on Incomplete data

- Multitasking
- Loss of Orderly Progression
- Action in Face of Uncertainty

Teaching Emergency Medicine Variety of Patients

- Decision making in face of uncertainty
 - Action
 - Gather data

Teaching Emergency Medicine Variety of Patients

- Decision making in face of uncertainty
 - Action
 - Gather data
- Multi tasking
 - Interruptions

Teaching Emergency Medicine Variety of Patients

- Decision making in face of uncertainty
 - Action
 - Gather data
- Multi tasking
 - Interruptions
- Structure

Teaching Emergency Medicine Variety of Patients

- Decision making in face of uncertainty
 - Action
 - Gather data

- Multi tasking
 - Interruptions
- Structure
- Discussion

Novice

- Overwhelmed

Novice

- Overwhelmed
- Organization
 - Structure

Novice

- Overwhelmed
- Meaningless Data
- Organization
 - Structure

Novice

- Overwhelmed
- Meaningless Data

- Organization
 - Structure
- Key Features
 - Meaning of Data
 - Illness Scripts

Novice

- Overwhelmed
- Meaningless Data

- Action / Data
- Organization
 - Structure
- Key Features
 - Meaning of Data
 - Illness Scripts
- Action / Data

Novice

- Overwhelmed
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- Action / Data
- Conclusion

Intermediate

- Paralysis
 - Fear of Mistakes
 - Consequences of Error

Intermediate

- Paralysis
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- Autonomy / Support

Intermediate

- Paralysis
 - Fear of Mistakes
 - Consequences of Error

- “Reckless” Actions

- Autonomy / Support

Intermediate

- Paralysis
 - Fear of Mistakes
 - Consequences of Error

- “Reckless” Actions

- Autonomy / Support

- Verbal Discussion / Rehearsal

Summary

- Emergency Medicine
 - Rich data base
 - Little experience
 - Illness scripts
- Steps not Sequential
- Action Patterns

Summary

- Novice

- Intermediate