

2022 ACCP/ASHP Emergency Medicine Pharmacy Preparatory Review Course

Learning Objectives

After participating in these CPE activities, learners should be able to:

Complex Case: Pulmonary

UAN: 0204-9999-22-984-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, relevant acuity indices).
- Summarize strategies for procurement, preparation, and administration of time-sensitive therapies.
- Adjust patient-centered care plan based upon response, monitoring and patient-specific information.
- Identify adverse drug events and medication errors in emergency medicine.
- Evaluate protocols for adherence to evidence-based guidelines to assure safe and cost effective medication use and optimal resource allocation.

Complex Case: Cardiovascular – ACS

UAN: 0204-9999-22-985-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, relevant acuity indices, pre-hospital providers).
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Summarize strategies for procurement, preparation, and administration of time-sensitive therapies.
- Assess applicability and limitations of published data and reports to care of patient.
- Modify treatment plan based upon monitoring patient's response to initial therapy.

Complex Case: Cardiovascular - Acute Decompensated Heart Failure

UAN: 0204-9999-22-986-H01-P

- Assess patient presentation based upon patient-specific signs, symptoms, acuity indices, laboratory and other diagnostic results.
- Evaluate medication-related problems based on presentation, history (e.g., pre-hospital providers), medication use, and/or laboratory data.
- Summarize strategies for procurement, preparation, and administration of time-sensitive therapies.
- Modify treatment plan based upon monitoring patient's response to initial therapy.

Complex Case: Cardiovascular – Dysrhythmia

UAN: 0204-9999-22-987-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, relevant acuity indices, pre-hospital providers).
- Summarize strategies for procurement, preparation, and administration of time-sensitive therapies.
- Modify treatment plan based upon monitoring patient's response to initial therapy.

Complex Case: Seizures and Status Epilepticus

UAN: 0204-9999-22-988-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, relevant acuity indices, pre-hospital providers).
- Evaluate medication-related problems based on presentation, history (e.g., pre-hospital providers), medication use, and laboratory data.
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Summarize strategies for procurement, preparation, and administration of time-sensitive therapies.
- Modify treatment plan based upon patient's response to initial therapy.

Complex Case: Headache

UAN: 0204-9999-22-989-H01-P

- Evaluate medication-related problems based on presentation, history (e.g., pre-hospital providers), medication use, and laboratory data.
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Modify treatment plan based upon monitoring patient's response to initial therapy.
- Develop education, discharge and follow-up care plans based upon patient- and disease specific factors to improve adherence and continuity of care.

Complex Case: Ischemic Stroke

UAN: 0204-9999-22-990-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, relevant acuity indices).
- Evaluate medication-related problems based on presentation, history (e.g., pre-hospital providers), medication use, and laboratory data.
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Summarize strategies for procurement, preparation, and administration of time-sensitive therapies.
- Modify treatment plan based upon monitoring patient's response to initial therapy.

Complex Case: Psychiatry

UAN: 0204-9999-22-991-H01-P

- Interpret signs, symptoms, laboratory and other diagnostic and acuity results.
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Select alternative routes of administration based upon patient-specific factors.
- Modify treatment plan based upon monitoring patient's response to initial therapy.
- Assess applicability and limitations of published data and reports to care of patient.

Complex Case: Hepato-gastrointestinal

UAN: 0204-9999-22-992-H01-P

- Interpret signs, symptoms, laboratory and other diagnostic and acuity results.
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Select alternative routes of administration based upon patient-specific factors.
- Modify treatment plan based upon monitoring patient's response to initial therapy.

Complex Case: Endocrine

UAN: 0204-9999-22-993-H01-P

- Interpret signs, symptoms, laboratory and other diagnostic and acuity results.
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Select alternative routes of administration based upon patient-specific factors.
- Modify treatment plan based upon monitoring patient's response to initial therapy.
- Develop education, discharge and follow-up care plans based upon patient- and disease specific factors to improve adherence and continuity of care.

Complex Case: Infectious Diseases – Sepsis

UAN: 0204-9999-22-994-H01-P

- Develop therapeutic and monitoring plans based on medication-related, patient- and disease-specific information, laboratory data, and available evidence.
- Summarize strategies for procurement, preparation, and administration of time-sensitive therapies.
- Modify treatment plan based upon patient's response to initial therapy and stewardship guidelines
- Evaluate medication use protocols for adherence to evidence-based guidelines.
- Identify principles of quality assurance and continuous quality improvement (e.g., RAC, MUE).

Complex Case: Infectious Diseases – Meningitis

UAN: 0204-9999-22-995-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, relevant acuity indices).
- Interpret signs, symptoms, laboratory and other diagnostic and acuity results.
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Select alternative routes of administration based upon patient-specific factors.
- Summarize strategies for procurement, preparation, and administration of time-sensitive therapies.
- Modify treatment plan based upon monitoring patient's response to initial therapy.

Complex Case: Toxicology – Adult

UAN: 0204-9999-22-996-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, relevant acuity indices).
- Develop therapeutic and monitoring plans based on medication-related, patient- and disease-specific information, and laboratory data.
- Interpret signs, symptoms, and laboratory and other relevant diagnostic test results.
- Evaluate policies and processes for availability of essential drugs (e.g., drug shortages).
- Summarize strategies for procurement, preparation, and administration of time-sensitive therapies.
- Modify treatment plan based upon monitoring patient's response to initial therapy.

Complex Case: Toxicology – Pediatric

UAN: 0204-9999-22-997-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, relevant acuity indices).
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Summarize strategies for procurement, preparation, and administration of time-sensitive therapies.
- Evaluate policies and processes for availability of essential drugs (e.g., drug shortages) and emergency preparedness.
- Modify treatment plan based upon patient's response to initial therapy.

Complex Case: Surgery and Trauma - Blunt Trauma

UAN: 0204-9999-22-998-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, medication use, acuity indices).
- Interpret signs, symptoms, and laboratory and other diagnostic test results.
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.

- Modify treatment plan based upon monitoring the patient's response to initial therapy.

Complex Case: Surgery and Trauma - Penetrating Trauma

UAN: 0204-9999-22-999-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, medication use, and acuity indices).
- Interpret signs, symptoms, acuity indices, laboratory and other diagnostic results (e.g., pre-hospital care).
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Select alternative routes of administration based upon patient-specific factors.
- Modify treatment plan based upon patient's response to initial therapy.

Complex Case: Genitourinary

UAN: 0204-9999-22-600-H01-P

- Interpret signs, symptoms, and laboratory and other relevant diagnostic test results.
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Develop discharge and follow-up care plans based upon patient- and disease specific factors and public health recommendations to ensure continuity of care.

Complex Case: Obstetrics and Gynecology

UAN: 0204-9999-22-601-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, relevant acuity indices) and best available evidence.
- Interpret signs, symptoms, and laboratory and other relevant diagnostic test results.
- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Modify treatment plan based upon monitoring the patient's response to initial therapy.

Complex Case: Hematology

UAN: 0204-9999-22-602-H01-P

- Develop therapeutic and monitoring plans based on medication-related problems, patient- and disease-specific information, and laboratory data.
- Modify treatment plan based upon monitoring the patient's response to initial therapy.
- Develop discharge and follow-up care plans based upon patient- and disease specific factors to improve adherence and continuity of care.

Complex Case: Oncology

UAN: 0204-9999-22-603-H01-P

- Identify initial management in medical emergencies using available patient-specific information (e.g., age-related, risk factors, laboratory data).
- Summarize strategies for procurement, preparation, and administration of time-sensitive therapies.
- Modify treatment plan based upon monitoring the patient's response to initial therapy.

Statistics, Evidence-based Medicine, and Research Design

UAN: 0204-9999-22-604-H04-P

Given an excerpt from a study:

- Evaluate quality and appropriateness of the excerpt, with specific attention to:
 - study design
 - statistical analysis
 - internal/external validity
 - source of bias/confounders
 - quality of conclusions
 - interpretation of graphs
- Explain why a statistical test is appropriate or not appropriate, based on the sample distribution, data type, and study design.
- Interpret clinical and statistical significance for results from commonly used statistical tests.
- Explain the strengths and limitations of different types of measures of central tendency (mean, median, and mode) and data spread (standard deviation, standard error of the mean, range, and interquartile range).
- Evaluate odds ratio, risk/incidence rate, relative risk, number needed to treat, number needed to harm, and other risk estimates.
- Assess whether the study applies to a specified patient population.