### Advanced Diagnostics DCE™ Learning Objectives

**Mapped to AACN Master’s Essentials and NONPF Core Competencies**

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<tr>
<th>Essential IX: Master’s-Level Nursing Practice</th>
<th>Independent Practice Competencies</th>
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<th>Intro to Advanced Diagnostics</th>
<th>Conditions of the GI/GU Systems</th>
<th>Conditions of the Cardio System</th>
<th>Conditions of the Hematologic System</th>
<th>Conditions of the Musc/Neuro Systems</th>
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<tbody>
<tr>
<td>1. Conduct a comprehensive and systematic assessment as a foundation for decision making.</td>
<td>3.b. Uses advanced health assessment skills to differentiate between normal, variations of normal, and abnormal findings.</td>
<td>Complete a focused health history</td>
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<td>Use student provider note to select potential differential diagnoses.</td>
<td>Select potential differential diagnoses.</td>
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<td>2. Apply the best available evidence from nursing and other sciences as the foundation for practice.</td>
<td>3.c. Employs screening and diagnostic strategies in the development of diagnoses.</td>
<td>Complete a patient interview to collect relevant subjective data.</td>
<td>Select 30-year-old transgender male with persistent cough for 2 days</td>
<td>Select potential differential diagnoses.</td>
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<td>3. Use knowledge of illness and disease management to provide evidence-based care to populations, perform risk assessments and design plans or programs of care.</td>
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<td>Synthesize patient details and provider notes to identify initial list of differential diagnoses.</td>
<td>Select potential differential diagnoses.</td>
<td>Select 28-year-old female with lower abdominal pain and cramping for 3 days</td>
<td>Select potential differential diagnoses.</td>
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<td>4. Use knowledge of illness and disease management to provide evidence-based care to populations, perform risk assessments and design plans or programs of care.</td>
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<td>Recognize differentials that must not be missed for patient safety.</td>
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<td>Select potential differential diagnoses.</td>
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<td>5. Conduct a comprehensive and systematic assessment as a foundation for decision making.</td>
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<td>7. Use knowledge of illness and disease management to provide evidence-based care to populations, perform risk assessments, and design plans or programs of care.</td>
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### Examples of Patient Cases

- **28-year-old female with lower abdominal pain and cramping for 3 days:**
  - Rule in and rule out diagnostic testing to identify potential differential diagnoses.
  - Select 28-year-old female with lower abdominal pain and cramping for 3 days.

- **58-year-old male with intermittent chest pain for the past month:**
  - Rule in and rule out diagnostic testing to identify potential differential diagnoses.
  - Select 58-year-old male with intermittent chest pain for the past month.

- **72-year-old female with fatigue lasting several months:**
  - Rule in and rule out diagnostic testing to identify potential differential diagnoses.
  - Select 72-year-old female with fatigue lasting several months.

- **11-year-old female with knee pain that has worsened over time:**
  - Rule in and rule out diagnostic testing to identify potential differential diagnoses.
  - Select 11-year-old female with knee pain that has worsened over time.
### Essential IX: Master’s-Level Nursing Practice

#### 8. Incorporate core scientific and ethical principles in identifying potential and actual ethical issues arising from practice, including the use of technologies, and in assisting patients and other healthcare providers to address such issues.

#### Independent Practice Competencies

- Discuss ethical, legal, and regulatory considerations including cost/risk analysis related to selecting, collecting, and evaluating diagnostic tests and procedures.

- Provide rationales for diagnostic test selection incorporating understanding of evidence-based practice.

### Essential IV: Translating and Integrating Scholarship into Practice

#### 1. Integrate theory, evidence, clinical judgment, research, and interprofessional perspectives using translational processes to improve practice and associated health outcomes for patient aggregates.

#### Independent Practice Competencies

- Demonstrate utilization of clinical reasoning when interpreting diagnostic skills and procedures.

- Review diagnostic test results and synthesize findings to narrow down differential diagnoses to a final diagnosis.

### Essential IX: Master’s-Level Nursing Practice

#### 2. Apply the best available evidence from nursing and other sciences as the foundation for practice.

#### Independent Practice Competencies

- Exhibit advanced communication skills required for effective collaborative and expanded professional relationships.

- Demonstrate professional communication by providing evidence-based practice rationales.

### Essential IX: Master’s-Level Nursing Practice

#### 13. Establish therapeutic relationships to negotiate patient-centered, culturally appropriate, evidence-based goals and modalities of care.

#### Independent Practice Competencies

- Establish therapeutic relationships to negotiate patient-centered, culturally appropriate, evidence-based goals and modalities of care.

- Demonstrate professional communication by providing evidence-based practice rationales.

- Present evidence based rationale for selection of final diagnosis.