ACC Mapping Tools for Milestones Reporting

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Partnership between CTWC and CMC

Cardiology Training and Workforce Committee

Competency Management Committee
Objectives of Competency Mapping Project

Standards
- ACCF Curricular Competency and Milestones documents
- ACGME Subspecialty Reporting Milestones documents

Data Sources
- Fellow rotation evaluations
- In-training examination
- Direct observation

ACGME Perspective
- Overview of ACGME perspective on first round reporting milestones from programs
Mapping Tool Overview

- Rotation specific template evaluation tools
  - ACGME reporting milestones mapped to ACC curricular milestones
  - organized by 6 core competency domains
- Evaluation tools are not comprehensive
  - each program is encouraged to adapt templates to the needs of their institution and curriculum
- Faculty development is necessary to educate on milestones, evaluation tools, and methods to assess learners

Mapping Tools Online

- Overview of Evaluation Tool
- Ambulatory Clinic Tool
- Cardiology Consult Tool
- Cath Lab Tool
- Echo Tool

Ambulatory Clinic Mapping Tool

Patient Care Example

Ambulatory Clinic Mapping Tool – Levels of Entrustment

Patient Care

ACGME Reporting Milestones:
- Level 1: Recognize the signs and symptoms of common acute medical illnesses. Perform appropriate examination and assessment. Begins to develop a plan for treatment and follow-up. Provides educational feedback to patients.
- Level 2: Perform physical examination and diagnostic tests. Develop a comprehensive care plan. Provides follow-up care.
- Level 3: Perform advanced physical examination and diagnostic tests. Develop a comprehensive care plan. Provides follow-up care and management of complex cases.
- Level 4: Perform advanced physical examination and diagnostic tests. Develop a comprehensive care plan. Provides follow-up care and management of complex cases, including common medical emergencies.

ACC Curricular Milestones:
- Basic Patient Care: Demonstrates basic patient care skills in common scenarios. Understands the principles of patient care and management of common medical emergencies.
- Advanced Patient Care: Demonstrates advanced patient care skills in complex scenarios. Understands the principles of patient care and management of complex medical emergencies.
- Mastery Patient Care: Demonstrates mastery of patient care skills in complex scenarios. Understands the principles of patient care and management of complex medical emergencies.
### Echo Mapping Tool

#### Medical Knowledge Example

<table>
<thead>
<tr>
<th>Question No.</th>
<th>Competency Area</th>
<th>Reporting Milestones Subcompetency</th>
<th>Link to ACC CMC Template Evaluation Tool for Echocardiography</th>
</tr>
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<tbody>
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#### ACC CMC Template Evaluation Tool for Echocardiography

- **Level 1**: Early learner
  - Knows the basic technical aspects of echocardiography.
  - Understands the normal and abnormal findings in basic cardiac structures.
  - Performs basic echocardiographic examinations.
- **Level 2**: Achieving proficiency
  - Understands the key echocardiographic findings for the most common cardiac problems.
  - Performs echocardiographic examinations with a basic understanding of cardiac physiology.
  - Demonstrates proficiency in interpreting basic echocardiographic findings.
- **Level 3**: Ready for independent practice
  - Consistently interprets and correlates echocardiographic findings with other diagnostic tests.
  - Performs echocardiographic examinations independently.
  - Understands the role of echocardiography in the management of complex cardiac problems.
- **Level 4**: Expert
  - Demonstrates mastery in interpreting complex echocardiographic findings and applying them to clinical decision-making.
  - Performs echocardiographic examinations with the highest level of proficiency.

### Echo Mapping Tool – Levels of Entrustment

#### Medical Knowledge

- **ACGME Reporting Milestone**: MK2: Knowledge of diagnostic testing and procedures.
- **ACC Curricular Milestones**: M-IMAG: ECHO-MK2, MK7, MK8, MK9, MK10, MK11, MK12, MK15, MK16, MK17.
Cardiac Cath Mapping Tool

Systems-Based Practice Example

ACC CMC Template Evaluation Tool for Catheterization Lab Rotation

<table>
<thead>
<tr>
<th>Question</th>
<th>Competency A1</th>
<th>Reporting Milestones Subcompetency</th>
<th>Link to ACC Curricular Milestone</th>
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**SBP1**: Works effectively within an interprofessional team.

**M-IN/INT SBP1**: Coordinate care in a multidisciplinary approach for patient management, including transitions of care.

Cardiac Cath Mapping Tool – Levels of Entrustment

**Systems-Based Practice**

**ACGME Reporting Milestone**: SBP1 Works effectively within an interprofessional team.

**ACC Curricular Milestone**: INT SBP1

**Level 1**: Critical Deficiency
- Frequently requires reminders from laboratory staff to complete responsibilities.

**Level 2**: Early Learner
- Engages in discussion when directly approached but does not actively seek input from others.

**Level 3**: Advancing Improving
- Actively engages members of the laboratory staff in collaborative decision making.

**Level 4**: Ready for Unsupervised Practice
- Efficiently coordinates activities of the cardiac catheterization laboratory team to optimize care.

**Level 5**: Autonomaous
- Supervised by cardiac catheterization laboratory team as a leader in delivery of high-quality care.
# Cardiology Consult Mapping Tool

## Professionalism Example

### ACC CMC Template Evaluation Tool for Cardiology Consult Service Rotation

<table>
<thead>
<tr>
<th>Question #</th>
<th>Competency Area</th>
<th>Reporting Milestones Subcategory</th>
<th>Link to ACC Curricular Milestone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Professional</td>
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<tr>
<td></td>
<td></td>
<td>PROF1: Has professional and respectful interactions with patients, caregivers, and members of the interprofessional team (e.g., peers, consultants, nursing, ancillary professionals, and support personnel).</td>
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<td>PROF2: Accepts responsibility and follows through on tasks.</td>
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<td>PROF3: Responds to each patient’s unique characteristics and needs.</td>
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<td>MARCHM-PHIL1</td>
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</tbody>
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# Cardiology Consult Mapping Tool – Levels of Entrustment

### Professionalism

#### ACGME Reporting Milestones:

- PROF1: Has professional and respectful interactions with patients, caregivers, and members of the interprofessional team (e.g., peers, consultants, nursing, ancillary professionals, and support personnel).
- PROF2: Accepts responsibility and follows through on tasks.
- PROF3: Responds to each patient’s unique characteristics and needs.

#### MARCHM-PHIL1, PHIL2:

#### ACC Curricular Milestones:

- LEVEL 1: Early Learner
- LEVEL 2: Advancing Beginner
- LEVEL 3: Ready for Increasing Independence
- LEVEL 4: Advanced Practitioner
- LEVEL 5: Autonomy

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### Critical Functions

- LEVEL 1: Needs ongoing supervision and support to identify and manage conflicts of interest.
- LEVEL 2: Demonstrates integrity and ethical behavior in professional conduct.
- LEVEL 3: Exhibits sensitivity to patients’ needs, is developmentally appropriate, and respectful when interacting with patients, staff, and peers. Does not accept responsibility for tasks.
- LEVEL 4: Consistently exhibits professional behavior with patients, staff, and peers. Accepts responsibility for tasks.
- LEVEL 5: Nonclinical level model for others with respect to professional interactions with patients, staff, and peers.
Future Plans

• Creation of resources for use in demonstrating a Fellow’s level of competence for areas within subspecialty reporting milestones that may not be currently covered via typical rotations
  – Examples
    • In training exam performance
    • Direct observation
    • Simulation

Wrap Up

• You may access the ACC CMC’s Mapping Tools via CardioSource

• Please type in your question(s) for our presenters