ISCC Specialty Boards Working Group Report

“Embedded competencies” across specialty boards and societies.
Action: Building Relationships with:

- Hematology/Oncology ASCO
- Am Board of Ophthalmology
- Am Board of Family Practice
- American Dental Association
- ABMS coordination/potential integration
ABMS

• Develop integration to provide educational products for member boards.
  – Boards vary in their willingness to share genomic content.
    • ISCC to support sharing of genomic content
ABMS

- Work with ABMS on cross board genomic content.
  - Repository of potential activities.
  - AAMC portal
  - How to link competencies to MOC
    - Suggestions for part 2 (literature review) and/or part 4 (practice improvement) content
One Potential Option: AAMC MedEd portal:

- AAMC Associate member of the ABMS
- Teaching aids, peer reviewed.
- Innovations site: proposals for studies
- CME activities,
- Repository for cross specialty information.
  - Use competencies to identify common genomics content across specialties.

mededportal.org
Heme Onc Genomic Milestones (ASCO and Am Soc Hematology)

• For ACGME resident based training
• Fellow education.
• Action: To be shared with competencies working group.
  – Examine how they align with “EPAs”.
  • EPAs: those professional activities that together constitute the mass of critical elements that operationally define a profession.
ASH/ASCO Webinar:
Hematology Oncology Curricular Milestones

March 31, 2014 – 2:00 PM, Eastern Time
IM Subspecialty Reporting Milestones

- Developed by ACGME/AAIM/ABIM/Specialty Societies
- More detail than six core competencies
  - 24 subcompetencies
  - “Context-free” narrative streams
- Fellows’ progress reports to ACGME
  - Every 6 months
  - First Reporting Milestones due to ACGME December 2014
Seven Key Definitions

- **Entrustable Professional Activity (EPA):** Clinical outcomes shared by all graduates of a specialty that define the core functions of that specialty.

- **Competence:** An observable set of six skills or behaviors related to specific activities.

- **Subcompetence:** Refines and “drills down” each competence.

- **Milestone:** A significant developmental point that helps define/describe training trajectory.

- **Reporting Milestones:** 24 standardized measures across IM and IM specialties sent to ACGME each six months on every trainee.

- **Curricular Milestone:** Training Milestone—non-mandatory specialty guideline.

- **Clinical Competency Committee (CCC):** New departmental committee that evaluates fellows.
Curricular Milestones – Your Tool

• **Curricular Milestones** – Optional for Societies to Develop
  • Provide context and language to evaluate performance
  • Can update, modify as needed – make the Curricular Milestones work for you

• Most milestones can be observed through direct patient care activities. Exceptions:
  • MK-3 (Scholarship),
  • PBLI-1 (Monitors practice with a goal for improvement),
  • PBLI-2 (Learns and improves via performance audit) and recognition of system errors
  • SBP-2 (Recognizes system error and advocates for system improvement)
### Hematology Oncology Genetic, Genomic, Molecular and Laboratory Tests Milestone

23. Demonstrates knowledge of, and indications for, genetic, genomic, molecular, and laboratory tests related to hematologic and oncologic disorder. (MK2)

<table>
<thead>
<tr>
<th>Critical Deficiencies</th>
<th>Ready for unsupervised practice</th>
<th>Aspirational</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does not know the cytogenetic or molecular genetic abnormalities associated with common disorders</td>
<td>Inconsistently demonstrates knowledge about the molecular pathways, appropriate cytogenetic or molecular tests and clinical genetic syndromes</td>
<td>Consistently demonstrates knowledge about the molecular pathways, appropriate cytogenetic or molecular tests and clinical genetic syndromes, including the diagnosis and management of inherited or acquired common, rare and complex disorders</td>
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<td>Role models and teaches others the complexities of the molecular pathways and their modifications in clinical disorders and the appropriateness of genetic testing</td>
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**Comments:**
## Hematology Oncology Genetic, Genomic Milestone is Reported under the IM Reporting Milestone Medical Knowledge 2

### 7. Knowledge of diagnostic testing and procedures. (MK2)

<table>
<thead>
<tr>
<th>Not Yet Assessable</th>
<th>Critical Deficiencies</th>
<th>Ready for unsupervised practice</th>
<th>Aspirational</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lacks foundational knowledge to apply diagnostic testing and procedures to patient care</td>
<td>Consistently interprets basic diagnostic tests accurately</td>
<td>Interprets complex diagnostic tests accurately while accounting for limitations and biases</td>
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<td></td>
<td>Inconsistently interprets basic diagnostic tests accurately</td>
<td>Needs assistance to understand the concepts of pre-test probability and test performance characteristics</td>
<td>Knows the indications for, and limitations of, diagnostic testing and procedures</td>
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<td></td>
<td>Does not understand the concepts of pre-test probability and test performance characteristics</td>
<td>Fully understands the rationale and risks associated with common procedures</td>
<td>Understands the concepts of pre-test probability and test performance characteristics</td>
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<td></td>
<td>Minimally understands the rationale and risks associated with common procedures</td>
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<td>Teaches the rationale and risks associated with common procedures and anticipates potential complications of procedures</td>
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<td>Anticipates and accounts for subtle nuances of interpreting diagnostic tests and procedures</td>
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<td>Pursues knowledge of new and emerging diagnostic tests and procedures</td>
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**Comments:**
Comparison with ISCC Competencies and EPAs

• Established independently of ISCC Competency Group
• Launch date July 1, 2014
• Both comply with ACGME guidelines
• ASH/ASCO Curricular Milestones follow overall ISCC intent
• Unique ASH/ASCO creative process may assist other societies in genomics competencies/milestones/EPAs development
• More discussion between the Competencies and Specialty Boards Groups to come—Stay tuned
Summary: Genomic Milestones

- Effective platform and standardization for other organizations to adopt for education/training.
American Board of Ophthalmology

• We reviewed their required genomics content.
  – Very thorough.
• Collaboration with the ISCC Competencies group for more development.
• Expect to identify needed educational products once specific competencies agreed.
• Plan for targeted use cases as part of those products.
American Board of Family Medicine

• Has developed an extensive MOC Part II module in genomics.
  – Develop competencies and are interested in further input.
  – Case generator that constructs new questions!
• They have developed genomic competencies.
  – ISCC Competencies group have been reviewed.

ACTION: Work on targeted educational needs in development with ISCC genomic competencies. (as per M. Hagen).
Am Dental Association

• Very interested in developing genomic competencies and content (Dr. Hart).
• Limited education basics in Dental School.
• Starting place for discussion...