Implementing Milestones and Clinical Competency Committees

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Goals for Today

- 1. What are milestones?
- 2. How do we assess for milestones?
- 3. How do CCCs work?
- 4. What does ACGME expect for CCCs?



Six Core Competencies for every physician

- 1. Medical Knowledge
- 2. Patient Care
- 3. Professionalism
- 4. Interpersonal Communication
- 5. Practice-based Learning: personal improvement
- 6. System-based Practice: system improvement

The Outcome Project

1999 - Outcome Project Begins

- General Competencies Defined
- Increasing emphasis on educational outcomes (vs. process)

2001- Quadrads (Board, PD, RRC, Res) Convened

- Translate core competencies into specialty-specific competencies
- Portfolios were the next big hope

2002-2008 – Implementation of 6 Competency Domains

- Residency programs expected to develop instructional and assessment methods for integrating the competencies in their curricula
- ACGME assessment "toolbox" developed

Milestone Project Goals

The Outcomes Project had difficulty in measuring Outcomes: Resident Performance and Competency

Milestones provide a more explicit definition of expected resident knowledge, skills, attributes & performance

- Expand outcome evidence for accreditation & certification
- Enhance public accountability

What Is a Milestone?

General Definition

 Skill and knowledge-based developments that commonly occur by a specific time

Milestone Project Definition

 Specific behaviors, attributes, or outcomes in the six general competency domains to be demonstrated by residents during residency
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Denver Developmental Scale

measures childhood milestones



Guiding Principles

Feasibility

- Manageable number of milestones
- Meaningful
- "Measurable"

Quality

- Convened by ACGME
- Uniform
 template
- Ongoing
- Need to Reassess and Revise

Applicable

- Developed by each Specialty
- ABMS Board
- PD society
- Resident
- RRC



Professionalism:

Accepts responsibility and follows through on tasks

Lev	el 1 Le	vel 2	Leve	el 3 Lev	vel 4	Resident effectively manages
Expert				Resident a	alway	multiple competing tasks, and effortlessly manages complex circumstances. Is clearly identified
Proficient				directly pro	e cas ovidir g it. Ir	by peers and subordinates as source of guidance and support in difficult or unfamiliar circumstances.
Competent		vast m a time circum	ajority ly manr	regularly s subordination ner. Self ide s and active	ntifies	eks
Advanced Beginner	accordar	l tasks in the with t still re	n a time local p quires (nfamiliar cir ely manner i ractice and/ guidance in	in /or	tances.
Resident complet tasks on time but guidance on local policy for patient	es many as needs exte practice ar	nsive				© 2012 Accreditation Council for Graduate Medical Education (ACGME)

General Competency

Developmental Progression or Set of Milestones

PC1. History (Appropriate for age and impairment)

Sub-competency

Level 1	Level 2	Level 3	Level 4	Level 5
Level 1 Acquires a general medical history	Acquires a basic physiatric history including medical, functional, and psychosocial elements	Acquires a comprehensive physiatric history integrating medical, functional, and psychosocial elements Seeks and obtains data from secondary sources when needed	Efficiently acquires and presents a relevant history in a prioritized and hypothesis driven fashion across a wide spectrum of ages and impairments Elicits subtleties and information that may not be readily volunteered by the patient	Gathers and synthesizes information in a highly efficient manner Rapidly focuses on presenting problem, and elicits key information in a prioritized fashion Models the gathering of subtle and difficult
		Milestone		information from the patient

Milestone Template

Competency and Sub-competency described

Milestone Description: Template									
Level 1	Level 2	Level 3	Level 4	Level 5					
What are the expectations for a beginning resident?	What are the milestones for a resident who has advanced over entry, but is performing at a lower level than expected at mid- residency?	What are the key developmental milestones mid- residency? What should they be able to do well in the realm of the specialty at this point?	What does a graduating resident look like? What additional knowledge, skills & attitudes have they obtained? Are they ready for certification?	Stretch Goals – Exceeds expectations					
Comments:			© 2013 Accreditat Graduate Medical	tion Council for Education (ACGME)					

Sample Milestone

SBP 1: Functions in the current reimbursement system

Level 1	Level 2	Level 3	Level 4	Level 5
 Understands basic health payment systems, including uninsured care. Understands different practice models. 	 Understands principles of diagnosis, evaluation and management, and procedure coding. Compares and contrasts different practice models. 	 Codes routine diagnoses, encounters and surgical procedures. Documents medical necessity. Recognizes basic elements needed to establish practice (e.g. negotiations, malpractice insurance, contracts, staffing, compliance, facility accreditation). 	 Codes complex and unusual diagnoses, encounters and surgical procedures. Establishes timeline and identifies resources for transition to practice (e.g. information technology, legal, financial, personnel). 	 Participates in advocacy activities for health policy. Creates curriculum to teach practice management.
Comments:				

EMERGENCY MEDICINE MILESTONES

PC1. Emergency Stabilization

Level 1		Level 2			Level 3			Level 4			Level 5
Describes a primary assessment on a critically ill or injured patient		izes when a patier e requiring immec ntion		formula	s relevant data to ate a diagnostic sion and plan		ill or inj	es and prioritizes crit ured patients		protocols manager of critica	policies and s for the nent and/or transfe ly ill or injured
Recognizes abnormal vital signs	stabiliza resuscit	zes vital critical init ation actions in the tation of a critically patient	e	Christian - Ar	sses after impleme ng intervention	enting a	when fu is futile	izes in a timely fashi urther clinical interv es the validity of a D	ention	patients	
	2.2	ns a primary assess tically ill or injured	a ee				order Integrat	tes hospital support s into a managemen y for a problematic			
						-	and a state of the	ation situation		0	
0 0)	0	C)	0)	0			0

Suggested Evaluation Methods: SDOT, observed resuscitations, simulation, checklist, videotape review

EM Milestones Final 12/31/11

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Page 1

Radiology: Interpersonal and communication skills

Communic ation with other physicians: formal	PGY 1 Describes the important components of written	PGY 2-3 Is proficient in speech recognition and self-editing and adheres to institutional/	PGY 3-4 Accurately and efficiently dictates reports even in complex cases	Grad resident Produces a concise report with significant findings, impressions and	Prac Prad Is a role model for written reporting and actively teaches junior level
reporting	communications between physicians and is aware of the contribution of poor written communication to medical error.	national policies for reporting in radiology. Radiology reports accurately describe findings in simple and emergent cases. Impression is clear and concise. Reports accurately identify urgent and unexpected findings. Few corrections required by attending radiologist	and demonstrates a turnaround time in- line with peers; reports for complex cases accurately convey findings and impression as discussed with attending radiologist.	recommendations and can accurately identify all urgent and essentially all unexpected findings in the report.	residents and provides feedback.

Overall Rating of Six Competencies



End of PGY-1, Mid PGY-2 Year Evaluation, **Overall Rating of Professionalism across All Specialties**





Singapore Milestone Data, End of PGY 1 to Mid Year PGY 2 All Specialties (n=122, 100%)

Professionalism Communications Med Knowl Pt Care/Procedures PBLI SBP



Attainment of Milestones should be determined by

The Clinical Competency Committee

- A group of faculty members trained in looking at milestones
- The same set of eyes looking at other evaluations:
 - End of rotation
 - Nurses
 - Patients and families
 - Peers
 - Others
- The same process is applied uniformly

Clinical Competency Committee

- May already be in place under a different name
- Start thinking about this and decide on composition, procedure, data elements
 - Should chief residents be included in the CCC?
 - Role of program director
- What should be reviewed:
 - Continue to look at current evaluations forms
 - Milestones, EPAs, narratives
- Challenges:
 - Large residency programs
 - Small residency and fellowship programs
 - Time-consuming at first: pilot studies

Accreditation Council for Graduate Medical Education

Assessment of Residents for Milestones

Pamela Derstine, PhD, MHPE, Executive Director *Review Committees for Colon & Rectal Surgery, Neurological Surgery, Orthopaedic Surgery, Otolaryngology*



Take-home Points

- Assessment for milestones requires observations and judgments of performance in the workplace.
 - Competence is not a stable trait and is inherently subjective.
 - There are no 'valid and reliable' tools for workplace assessment; focus on understanding the users of the tools and developing rater expertise in assessment through deliberate practice.
- Develop a program of assessment as part of curriculum planning.

The Big Questions

When considering milestones:

- What should we assess?
- How should we assess it?

Performs a history and physical examination in critically-ill patientsExplains risks and benefits of ventilatory supportFormulates work-up and treatment plan for a comatose patientIndependently formulates a treatment plan for complex patients (e.g., failure of cerebral autoregulation, multi- organ failure, non- recoverable CNS injury)Systematically review outcomes for neurocritical care patientsOrders positioning, neuromuscular blockade, intravenous (IV) fluids and nutrition in critically-ill plans for common pulmonary diseases CSF drainage)• Independently formulates treatment blockade, intravenous (CSF drainage)• Independently formulates treatment blockade, intravenous (CSF drainage)• Independently formulates treatment plans for common pulmonary diseases initubation• Independently formulates treatment plans for common performs endotracheal intitates management of neurocritical and central venous cardia carthythmia; initiates management of langnoses and monitoring• Independently formulates treatment performs endotracheal intubation• Independently formulates treatment performs endotracheal intitates management of performs entral venous cardia carthythmia; initiates management of langnoses and manages spinal or hypovolemic shock• Independently formulates work-up and treatment plan for complex data for a compated toos of performs endotracheal intitates management of cardia crhythm disturbances• Independently formulates treatment plans outcomes for neurocritical care performs endotracheal intitates management of cardia crhythm disturbances• Systematically-v	evel 1	Level 2	Level 3	Level 4	Level 5
	and physical examination in critically-ill patients Orders positioning, analgesics, sedation, neuromuscular blockade, intravenous (IV) fluids and nutrition in critically-ill patients Diagnoses and formulates treatment plans for common pulmonary diseases Use electrocardiogram (EKG) to diagnose cardiac arrhythmia; initiates hemodynamic monitoring Performs a brain	 benefits of ventilatory support Interprets diagnostic studies (e.g., chest x- ray [CXR], brain computed tomography [CT], echocardiogram) Manages intra-cranial hypertension (e.g., hyperosmolar agents, CSF drainage) Manages airway and performs endotracheal intubation Inserts arterial and central venous catheters Diagnoses and manages spinal or 	 and treatment plan for a comatose patient Manages refractory intra-cranial hypertension (e.g., blood pressure, CPP) Obtains confirmatory tests and make an accurate diagnosis of brain death Initiates management of pneumonia or 	formulates a treatment plan for complex patients (e.g., failure of cerebral autoregulation, multi- organ failure, non- recoverable CNS injury) Diagnoses and initiates management of adult respiratory distress syndrome Manages difficult and emergency airways Diagnose and manages CSF leak Initiates management of cardiac rhythm	outcomes for neurocritical care patients Participates in quality improvement for a neurocritical care unit Develops a standard neurocritical care unit management protoco Leads multidisciplinar neurocritical care team Manages respiratory failure (e.g., mechanical ventilation, bronchoscopy) Manages cardiac

Level 1	Level 2	Level 3	Level 4	Level 5
 Performs a history and physical examination in critically-ill patients Orders positioning, analgesics, sedation, neuromuscular blockade, intravenous (IV) fluids and nutrition in critically-ill patients Diagnoses and formulates treatment plans for common pulmonary diseases Use electrocardiogram (EKG) to diagnose cardiac arrhythmia; initiates hemodynamic monitoring Performs a brain death examination 	 Explains risks and benefits of ventilatory support Interprets diagnostic studies (e.g., chest x- ray [CXR], brain computed tomography [CT], echocardiogram) Manages intra-cranial hypertension (e.g., hyperosmolar agents, CSF drainage) Manages airway and performs endotracheal intubation Inserts arterial and central venous catheters Diagnoses and manages spinal or hypovolemic shock 	 Formulates work-up and treatment plan for a comatose patient Manages refractory intra-cranial hypertension (e.g., blood pressure, CPP) Obtains confirmatory tests and make an accurate diagnosis of brain death Initiates management of pneumonia or systemic infection 	 Independently formulates a treatment plan for complex patients (e.g., failure of cerebral autoregulation, multi- organ failure, non- recoverable CNS injury) Diagnoses and initiates management of adult respiratory distress syndrome Manages difficult and emergency airways Diagnose and manages CSF leak Initiates management of cardiac rhythm disturbances 	 Systematically reviews outcomes for neurocritical care patients Participates in quality improvement for a neurocritical care unit Develops a standard neurocritical care unit management protoco Leads multidisciplinan neurocritical care team Manages respiratory failure (e.g., mechanical ventilation, bronchoscopy) Manages cardiac rhythm disturbances

Understanding Competence*

- Mastery of knowledge
- Demonstration of observed behaviors
- Representation of characteristics and behaviors with numbers
- Mindful practice through reflection and selfassessment
- Demonstration of standardized outcomes for knowledge, skills and behaviors

*Hodges, BD (2012) The shifting discourses of competence. In The Question of Competence, eds. Hodges and Lingard, Ithaca: Cornell University Press

What should we assess?*

Dominant thinking:

- Discrete knowledge, skills, abilities (KSA's)
- Observed individual performance in standardized settings

Implications:

- Competence is an individual possession that is stable and context-free
- Applications of psychometric validity and reliability may be used.

*Lingard, L (2012) Rethinking competence in the context of teamwork. In The Question of Competence, eds. Hodges and Lingard, Ithaca: Cornell University Press

What should we assess?*

Emerging thinking:

- Entrustable professional activities (blended KSA's)
- Collective competence (safe and effective healthcare through competent teams and systems)

Implications:

- Competence is a distributed capacity that is evolving and based in situations.
- Assumptions of traditional psychometric assessment approaches are not true.

*Lingard, L (2012) Rethinking competence in the context of teamwork. In The Question of Competence, eds. Hodges and Lingard, Ithaca: Cornell University Press

What should we assess?

One way of thinking is not "better" than the other. Both are needed! But each requires different concepts of assessment.

Miller' s¹ Pyramid of Clinical Competence



Academic Medicine (Supplement) 1990. <u>65</u>. (S63-S67) van der Vleuten, CPM, Schuwirth, LWT. Assessing professional competence: from Methods to Programmes. Medical Education 2005; <u>39</u>: 309–317

Miller' s¹ Pyramid of Clinical Competence



van der Vleuten, CPM, Schuwirth, LWT. Assessing professional competence: from Methods to Programmes. Medical Education 2005; <u>39</u>: 309–317

How should we assess "does"?

Characteristics of workplace assessment:

- Complicated, complex, and unpredictable settings
 - Variable patient presentations and complications
 - Interactions between healthcare providers
 - Interactions within a (changing) system
- Recorded observations by variable raters
 - Constructed understanding of competence

Clinical Evaluation of Does*

- No assessment method can reliably measure the competencies separately from one another as separate constructs.
 - Competencies are interdependent.
 - Competence is not a stable trait (develops through experience) and is inherently subjective.
 - Raters' expertise as clinicians and as raters not stable (develops through experience).
 - Assessment in the workplace is a social encounter (we are humans, after all!).

*Ginsburg, S, et al (2010) Toward Authentic Clinical Evaluation: Pitfalls in the Pursuit of Competency. Acad. Med. <u>85</u> (5): 780-786.

Clinical Evaluation of Does: Understanding Rater Behavior*

- Raters use different schemas in judging performance.
 - Raters make and justify judgments based on personal theories and performance constructs (include clusters of effective behaviors); these do not map to frameworks of standardized tools.
- Raters' observations (what they pay attention to) is determined by specific contexts and their own clinical experience/expertise.

*Govaerts, MJB, et. al. Workplace-based assessment: raters' performance theories and constructs. Adv. In Health Sci. Educ. Online 17 May 2012.
Clinical Evaluation of "Does": Understanding Faculty Behavior*

- Experienced faculty pay more attention to situationspecific cues, compile different pieces of information to create meaningful patterns of information.
- Less experienced faculty pay more attention to specific and discrete aspects of performance.
- Both experienced and inexperienced faculty contribute valuable insights into resident competence.
- When required to substantiate ratings with concrete examples, no significant differences in rating scores between experienced and inexperienced faculty.

*Govaerts, MJB, et. al. (2011) Workplace-based assessment: raters' performance effects of rater expertise. Adv. In Health Sci. Educ. 16: 151-165.

Clinical Evaluation of "Does": Recommendations*

- Plan an assessment program (i.e., multiple evaluations, multiple raters, multiple settings, identified times, faculty development).
 - Deliberate and arranged set of longitudinal assessment activities
 - Individual assessments maximally used to provide learner feedback (assessment <u>for</u> learning)
 - Aggregated assessment data used for higher stake decisions (assessment <u>of</u> learning); the higher the stakes, the more data needed
 - Expert professional judgment is imperative

*van der Vleuten, CPM, et. al. (2012) A model for programmatic assessment fit for purpose. Medical Teacher, 34: 205-214.

Clinical Evaluation of "Does": Recommendations*

- Start with what assessors (attending, nurse, etc.) will observe, experience, and can comment on, not with the competency you want to assess.
- Elicit explanations for ratings (e.g., specific example).
- Value all ratings (e.g., do not assume the rating from a 'dove' is due to halo effect).
- Balance ratings from "hawks" and "doves" by increasing the number of raters.

*Ginsburg, S, et al (2010) Toward Authentic Clinical Evaluation: Pitfalls in the Pursuit of Competency. Acad. Med. <u>85</u> (5): 780-786.

Clinical Evaluation of Does: Recommendations*

Assessment Program Guidelines

- A single assessment is intrinsically limited (content specificity; doesn't establish change or growth)
- Assessment for 'does' cannot be standardized; it is the users of the forms, not the forms, that determine validity.
- ALL THOSE INVOLVED IN THE ASSESSMENT PROCESS SHOULD RECEIVE EXTENSIVE TRAINING: faculty, other assessors, learners, judges.
- Combining roles of mentor/coach and judge in high stake decisions is a conflict of interest; risks inflation of judgment and trivialization of assessment process.
- Information from all low-stake assessments should feed into high stake decisions.

*van der Vleuten, CPM, et. al. (2012) A model for programmatic assessment fit for purpose. Medical Teacher, 34: 205-214.

Clinical Evaluation of Does: Recommendations*

- Include multiple forms of workplace-based assessment tools (e.g., DOPS, Mini-CEX, CBD, MSF, PBA, OSATS) in the planned assessment program.
 - Tools with word descriptors, not numerical rating scales
 - Clear, performance-based descriptors of what is being judged and at what level
 - Recommend end-of-training be used as a common framework for judging levels
 - Avoid checklist-only tools; combine checklists with a global evaluation

*Workplace Based Assessment: A guide for implementation. Rowley, D, Wass, V, and Myerson, K, eds. 2010. London: General Medical Council/Academy of Medical Royal Colleges

OCAP: SAMPLE TOOLS 1

Procedure Based Assessment – Total Knee Replacement

Trauma & Orthopaedics PBA 4: Total Knee Replacement

rainee	e: Asses	Assessor: End time:		Date: Duration:	
tart ti	me: End tin				
perat	ion more difficult than usual? Yes / No	(If yes, state reason)			
s	core: N = Not observed or not appropria	ate U = Unsatisfactory S	= Satisfa	ectory	
	Competencies and De	finitions	Score N/U/		
L.	Consent				
C1	Demonstrates sound knowledge of indica	tions and contraindications			
01	including alternatives to surgery			4	
C2	Demonstrates awareness of sequelae of management	operative or non operative			
C3	Demonstrates sound knowledge of comp	lications of surgery		Π	
	Explains the perioperative process to the	• •		Н	
C4	carers and checks understanding				
C5	Explains likely outcome and time to recov	very and checks			
	understanding Pre operative planning				
п.	Demonstrates recognition of anatomical a	and nathological abnormalities			
PL1	(and relevant co-morbidities) and selects				
1000	strategies/techniques to deal with these e.g. nutritional status			_	
PL2	Demonstrates ability to make reasoned of				
	equipment, materials or devices (if any) taking into account appropriate investigations e.g. x-rays				
PL3	Checks materials, equipment and device	requirements with operating		-	
	room staff			_	
PL4	Ensures the operation site is marked whe	ere applicable			
PL5	Checks patient records, personally review	vs investigations			
III.	Pre operative preparation				
PR1	Checks in theatre that consent has been	obtained			
PR2	Gives effective briefing to theatre team			1	
PR3	Ensures proper and safe positioning of th	e patient on the operating		-	
	table			-	
PR4	Demonstrates careful skin preparation		-		
PR5	Demonstrates careful draping of the patie		_		
PR6	Ensures general equipment and materials catheter, diathermy)				
PR7	Ensures appropriate drugs administered				
PR8	Arranges for and deploys specialist support intensifiers) effectively				
IV.	Exposure and closure				
E1	Demonstrates knowledge of optimum skir	- incident / northal / northal			

Copyright: British Orthopaedic Association

OCAP: SAMPLE TOOLS 2

Procedure Based Assessment Validation Worksheet

Procedure-Based Assessment Validation

Specialty: Trauma & Orthopaedics

Procedure: PBA 4: Total Knee Replacement

Competencies and Definitions		Positive Behaviours (doing what should be done)	Negative Behaviours (doing what shouldn't be done)	Negative – Passive Behaviours (not doing what should be done)
L.	Consent			
	Demonstrates sound knowledge of indications and contraindications including alternatives to surgery	Explains using examples relevant to the patient: Principle benefit of operation Subsequent improvement of function Limitations of surgery Consequences of not having surgery	Expresses unrealistic views of the improvement in function expected following the procedure	Fails to point out the limitations of the operation
		Indicates pain relief as principle, aim of operation and improvement of function being subsidiary to that. Discusses limitations of activities relative patients age and specific requests	Glosses over potential difficulties related to activities such as kneeling or playing sport	Fails to point out limitations of a TKR in very active patients, particularly patients who require considerable bending
C2	Demonstrates awareness of sequelae of operative or non operative management	Describes consequences, agrees expectations and checks patient understanding	Is over confident in describing consequences, reinforces patient's unrealistic expectations	Fails to mention key inevitable consequences
		Show through discussion they can understand the long term issues around wear and loosening, risks of infection and specific limitations regarding movement and kneeling	Overrides legitimate concerns patient may have	Not discussed the risk of infection. The long term effects in terms of loosening
C3	Demonstrates sound knowledge of complications of surgery	Explains in priority order the complications likely to occur in terms of commonality and in terms of seriousness	Spends time explaining rare complications and fails to mention commoner ones	Misses out one or more major complications when explaining to trainer or patient

Objective structured assessment of technical skill



GENERIC TECHNICAL SKILLS ASSESSMENT

(to be used in conjunction with a task-specific checklist)

Assessor, please rate the candidate's performance for each of the following factors:

Respect for tissue	Frequently used unnecessary force on tissue or caused damage by inappropriate use of instruments.	Careful handling of tissue but occasionally causes inadvertent damage	Consistently handled tissues appropriately with minimal damage.
Time, motion and flow of operation and forward planning	Many unnecessary moves. Frequently stopped operating or needed to discuss next move.	Makes reasonable progress but some unnecessary moves Sound knowledge of operation but slightly disjointed at times	Economy of movement and maximum efficiency. Obviously planned course of operation with effortless flow from one move to the next.
Knowledge and handling of instruments	Lack of knowledge of instruments.	Competent use of instruments but occasionally awkward or tentative	Obvious familiarity with instruments.
Suturing & knotting skills	Placed sutures inaccurately or tied knots insecurely, and lacked attention to safety.	Knotting and suturing usually reliable but sometimes awkward	Consistently placed sutures accurately with appropriate and secure knots, and with proper attention to safety.
Technical use of assistants Relations with patient and the surgical team	Consistently placed assistants poorly or failed to use assistants. Communicated poorly or frequently showed lack of awareness of the needs of the patient and/or the professional Team	Appropriate use of assistant most of the time Reasonable communication and awareness of the needs of the patient and/or of the professional team	Strategically used assistants to the best advantage at all times. Consistently communicated and acted with awareness of the needs of the patient and/or of the professional team
Insight/Attitude	Poor understanding of areas of weakness	Some understanding of areas of weakness	Fully understands areas of weakness
Documentation of Procedures	Limited documentation Poorly written	Adequate documentation, but with some omissions, or areas that need elaborating	Comprehensive legible documentation, indicating findings, procedure and postoperative management

Based on the checklist and the Generic Technical Skills Assessment, Drhas achieved the OSAT competency level marked below:

 Competent to perform the entire procedure under direct senior supervision
 Competent to perform the entire activity without the indirect senior supervision
 Competent to perform the entire activity without the need for supervision

Royal College of Obstetrics & Gynecology

Date: Signed:

Clinical Evaluation of "Does"

- New approaches to 'reliability' for high stake decisions
 - Estimate using generalizability theory
 - Include performance improvement¹
 - Combine data from multiple assessment tools²

¹van Lohuizen, MT, et. al. (2010) The reliability of intraining assessment when performance improvement is taken into account. Adv. Health Sci. Educ. 15: 659-669.

²Moonen-van Loon, JMW, et. al. Composite reliability of a workplace-based assessment toolbox for postgraduate medical education. Adv. Health Sci. Educ. Online 15 March 2013

Clinical Evaluation of "Does"

- New approaches to 'reliability' for high stake decisions
 - Holistic assessment procedure that relies on principles of qualitative research^{1,2}
 - <u>Credibility</u> (e.g., assessor training; triangulation; CCC discusses inconsistencies)
 - <u>Transferability</u> (e.g., broad sampling over contexts, patients; narrative info)
 - o <u>Dependability</u> (e.g., broad sampling over assessors)
 - o <u>Confirmability</u> (e.g., process documentation; audit)

¹van der Vleuten, CPM, et. al. (2012) A model for programmatic assessment fit for purpose. Medical Teacher, 34: 205-214. ²Driessen, EW, et. al. (2012). The use of programmatic assessment in the clinical workplace: A Maastricht case report. Medical Teacher 34: 226-231.

Clinical Evaluation of "Does"

- New approaches to 'reliability' for high stake decisions
 - Holistic assessment procedure that relies on principles of qualitative research^{1,2}
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Clinical Evaluation of "Does": Faculty/Assessor Training*

- Include all participants in the assessment system
- Orientation to assessment system
- Discussion to develop shared 'mental models' of competence, not just orientation to a form
- Ongoing discussions: feedback from assessors to learners; feedback to assessors on their feedback

Deliberate practice to develop expertise in assessment

*Holmboe, ES, et. al. (2011). Faculty development in assessment: The missing link in competency-based medical education. Acad. Med. <u>86</u> (4): 460-467.

Clinical Evaluation of "Does": Faculty/Assessor Training*

- GOAL is culture change: mutual respect and trust
 - Assessors' insecurities (content knowledge; knowledge about level of knowledge; self-efficacy)
 - Counteract by providing additional assessment opportunities to build convincing basis for decisions
 - Assessors' perceptions of assessment tasks (tension between mentoring and assessing; authenticity of assessment; lack of clear standard)
 - Counteract by incorporating two-way formative feedback as a common feature of all assessments, i.e., assessment as continuous learning

*Berendonk, C, et. al. Expertise in performance assessment: assessors' perspectives. Adv. Health Sci. Educ. Online: 31 July 2012.

The Big Questions

When considering milestones:What should we assess?



Collective Competence

Entrustable Professional Activities

The Big Questions

When considering milestones:How should we assess it?



Workplace Assessment: Clinical Observations, Multi-Source Feedback, Team Assessments, Operative (Procedural) Skill Assessments

Take-home Points

- Assessment for milestones requires observations and judgments of performance in the workplace.
- Develop a program of assessment as part of curriculum planning.
 - Include planned assessments using multiple forms of WBA tools.
 - Focus on raters: it is the users of the tools, not the tools, that determine validity of assessment.
 - Incorporate deliberate practice to develop expertise in assessment.

Assessing Clinical Competence

What is the Role for the Clinical Competence Committee?

Neal H. Cohen, MD, MPH, MS

Disclosures

- No Financial Disclosures
- Past Chair, Anesthesiology RRC
- Member, Anesthesiology Milestones Committee
- Vice Chair, ABA CCM Examination Committee

Assessing Clinical Competence

- ACGME requirements under NAS
- Anesthesiology requirements for assessing competence through continuum of training
- What has worked and what has not
- Lessons learned

Assessing Clinical Competence What is Required for the NAS?

Common Program Requirements state that

- "...[The final summative evaluation] must verify that the resident has demonstrated sufficient competence to enter practice without direct supervision [conditional independence]."
- Assessment of whether an individual resident has attained milestones
- Judgment of the *Clinical Competence Committee (CCC)* [provides] a framework for evaluation to assist the PD in assessing competence.

Assessing Clinical Competence – NAS

- All Programs will be required to have Clinical Competency Committees (CCCs)
- Specifics of CCC composition and roles are not specifically defined
- Programs in Phase 1 must have CCCs in place and begin to evaluate residents based on milestones during Academic Year 2013-14
- First two milestones submissions to the ACGME in December 2013 and June 2014
- So, time is of the essence...

Assessing Clinical Competence in Anesthesiology Programs (ABA)

- ABA requires every residency program to file an Evaluation of Clinical Competence in January and July for every resident who has spent any portion of the prior six months in clinical anesthesia training...
- Entry into the examination system is contingent upon the applicant having a Certificate of Clinical Competence attesting to satisfactory clinical competence during the final period of training...
- As part of the assessment, input must be provided by the Clinical Competence Committee through continuum of training

Clinical Competence Committees The American Board of Anesthesiology

ABA Requirements

- CCC should include membership reflecting the composition of the department, clinical rotation sites, etc.
- Program Director/Department Chair must not chair the Clinical Competence Committee. (ABA rule)
- The recommendations of the CCC (in conjunction with other evaluations) must be taken into account in assessing admission qualifications for the board examination process.

Clinical Competence Committees The American Board of Anesthesiology

Roles

- Monitor resident *progression through the continuum* of education in anesthesiology as specified by the American Board of Anesthesiology (ABA).
- Provide *objective assessments, feedback and mentorship* to anesthesia residents in the ACGME competency areas.
- Ensure that the assessment includes *input reflecting* representative group of faculty and evaluation of all educational components of the training program.

Clinical Competence Committees The American Board of Anesthesiology

Responsibilities

- Complete the Clinical Competence Committee Report every six months as required by the ABA.
- Develop and manage systems for evaluation of residents from multiple sources (e.g., faculty, peers, patients, self, other professional staff).
- Manage a faculty advisor system to provide resident mentorship and feedback about performance at least semi-annually.

Clinical Competence Committee Committee Composition

- Chair appointed; Program Director or Chair excluded by ABA
- Membership varies by department size, composition (most commonly 10-12 members)
 - Representation from all divisions, services, sites
 - Broad representation of junior through senior faculty
 - Larger departments have terms of membership (eg; 2-year renewable)
 - Smaller departments may include entire faculty
 - Some departments include resident members
 - Advisors excluded from discussions
- Expectations
 - Must be actively involved in resident education
 - Participate in committee deliberations regularly (50%)
 - Provide consistent, timely evaluations
 - Feedback must be constructive

Clinical Competence Committee Information Reviewed

- All daily (electronic) evaluations
- End of rotation evaluations for subspecialties, selected rotations
- Input from other providers, colleagues, when available (360° evaluations*)
- Annual peer review evaluations*
- Six-month self evaluations*
- Test scores
- Attendance records

... and whatever additional information is available

Clinical Competence Committee What Works

- Assessment by consensus of a diverse group of faculty reinforces when a resident is doing well and identifying areas of concern for the resident having problems
- Discussions help differentiate poor performance in isolated situations from a pattern of poor performance
- CCC helps clarify the areas of concern for the "problem resident" specific areas of deficiency, inability to function in different settings (eg; OR, ICU, Pain), etc
- Coordination of evaluation and mentoring improves process for defining remedial steps necessary to help resident succeed
- Process allows department to identify weaknesses in educational curriculum, rotation schedules, supervision

Clinical Competence Committee What Doesn't Work

- Need for consensus about the definition of acceptable/unacceptable performance -- not consistently achieved
- Some faculty are hawks; others doves
- Tendency to make "gestalt" assessment (safe/not safe) rather than assessment of competence
- Unwillingness of faculty to provide "negative" evaluations
- Role of mentor in evaluation deliberations (advocacy vs objective assessment of competencies)
- PD often has more information about resident performance than is otherwise available to CCC
- Information is usually provided at the meeting, so limited time for review before discussion

Clinical Competence Committee Lessons Learned

- Most effective when it includes broad departmental representation of all services/rotations, faculty ranks/roles
- Role and responsibility must be understood by all members
- Most useful in assessing struggling resident and defining remedial needs, but also important in identifying outstanding residents
- Must collaborate with PD and mentors
 - Mentors should not participate in committee deliberations

Clinical Competence Committee Additional Lessons Learned

- Deliberations are complementary to Annual Program Evaluation
 - Helps identify systemic problems within the educational program, rotation schedules, timing of specialty rotations
- CCC will become even more important with implementation of milestones
 - Resident progression, proficiency
 - Faculty development

What Does the ACGME Expect?

Expected Benefits

Benefit For Residents

- Explicit expectations of residents
- Identifies areas to work on
- Improve evaluation of residents in all 6 general competencies
- More defined feedback from faculty to residents
- <u>Earlier identification of under-performers</u>
- Provides aspirational goals for over-achievers

Expected Benefits

Benefit For the Program

- Guide curriculum development
- Guide accreditation requirement revision
- Earlier identification of under-performers

Benefit For the Public

- Better definition of graduating resident
- Use for Program Accreditation
- Possible use for Board Certification

What does the ACGME expect?

- General concept: many is better than one
- Size, composition, frequency work flow may have to vary and hard to regulate
- Proposed Requirement on Clinical Competency Committee
- Posted on ACGME website
- Comments due May 15, 2013

What is the program requirement?

- General concept: many is better than one
- Size, composition, frequency work flow may have to vary and hard to regulate
- Proposed Requirement on Clinical Competency Committee
- Posted on ACGME website
- Comments due May 15, 2013

Proposed requirements?

- Program director appoints a CCC
- At least three faculty members
 - Can include non-physicians
 - Can include program director
- Optional members in addition
 - Residents in last year, others

Proposed requirements?

- CCC reviews all resident evaluations
 - Semi-annually
- Assure semi-annual reporting to ACGME
- Recommend to Program Director
 - Promotion
 - Remediation
 - Dismissal
- Program requirement posted for comment

Development Schedule



What Can I Do Now?

Learn your specialty milestones Posted on acgme.org Decide how to assess for milestones Tools to evaluate from program director associations, specialty boards, colleges Faculty discuss definitions and narratives Faculty should agree on the narratives Faculty learn about assessment tools

The difference between a beginning teacher and an experienced one is that the beginning teacher asks, "How am I doing?" and the experienced teacher asks, How are the children (residents/fellows) doing?"

— <u>Esm</u>

2014 and beyond.....

- Milestones 1.0
- Improve evaluations
- Adjust and refine
- Modify in 2-4 yrs



Goals for Today

- 1. What are milestones?
- 2. How do we assess for milestones?
- 3. How do CCCs work?
- 4. What does ACGME expect for CCCs?

