

NEW EDUCATIONAL COMPETENCIES WILL IMPACT PRACTICE STANDARDS

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Respiratory Care

- ❑ Profession founded in 1947
- ❑ Tripartite:
 - American Association Respiratory Care
 - National Board Respiratory Care
 - Commission on Accreditation Respiratory Care
- ❑ Medical sponsors: ACCP, ATS, ASA



Practice Drives Education

- Credentialing exams are based on clinical practice
- Clinical Practice is based on Evidence Based Medicine
- Evidence based medicine is driving force behind Clinical Practice Guidelines from AARC

- Base Credentials: CRT, RRT
 - Specialty Credentials: ACCS, NPS, SDS, CPFT, RPFT

- 2-part exam – multiple choice & sim



NBRC Exam Development

- ❑ Job Analysis Survey
 - Evaluates tasks performed in clinical practice
 - Rate frequency and importance of task

- ❑ Detailed Content Outline
 - Lists competencies within the scope of practice
 - Basis for exam item writing
 - Resource for exam candidates





Therapist Multiple-Choice Examination

Effective: January 2015

Detailed Content Outline

Items are linked to open cells.

Each scored form will include 20-item pretests.	Cognitive Level			TOTALS
	Recall	Application	Analysis	
I. PATIENT DATA EVALUATION AND RECOMMENDATIONS	12	26	17	55
A. Evaluate Data in the Patient Record	3	5	0	8
1. Patient history, for example, <ul style="list-style-type: none"> • admission data • orders • medications • progress notes • DNR status / advance directives • social history 				
2. Physical examination relative to the cardiopulmonary system				
3. Drainage and access devices, for example, <ul style="list-style-type: none"> • chest tube • artificial airway 				
4. Laboratory results, for example, <ul style="list-style-type: none"> • CBC • electrolytes • coagulation studies • culture and sensitivities • sputum Gram stain • cardiac enzymes 				
5. Blood gas analysis results				
6. Pulmonary function testing results				
7. 6-minute walk test results				
8. Cardiopulmonary stress testing results				
9. Imaging study results, for example, <ul style="list-style-type: none"> • chest radiograph • CT • ultrasonography • MRI • PET • ventilation / perfusion scan 				
10. Maternal and perinatal / neonatal history, for example, <ul style="list-style-type: none"> • Apgar scores • gestational age • L / S ratio • social history 				
11. Metabolic study results, for example, <ul style="list-style-type: none"> • O₂ consumption / CO₂ production • energy expenditure • respiratory quotient 				
12. Sleep study results				
13. Trends in monitoring results				
a. fluid balance				
b. vital signs				
c. intracranial pressure				
d. weaning parameters				
e. pulmonary compliance, airways resistance, work of breathing				
f. noninvasive, for example <ul style="list-style-type: none"> • pulse oximetry • capnography • transcutaneous O₂ / CO₂ 				
14. Trends in cardiac monitoring results				
a. ECG				
b. hemodynamic parameters				

Item Writing

- ❑ Questions submitted by practicing therapists
- ❑ Exam Committee
 - Evaluates each item
 - Must unanimously agree
- ❑ Exam Validation
 - Candidates scores compared to supervisors evaluation of job performance
 - Evaluate all levels of practitioners



Content Breakdown*

	TMC
Recall	31
Application	61
Analysis	48
Totals	140

*nbrc.org



Program Goal

- “To prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs).”

Program Outcome Thresholds

- 80% credentialing success on board exams
- 70% job placement
- < 40% attrition
- 70% on-time graduation rate
- 80% scoring 3 or higher (5pt. scale) on grad and employer surveys



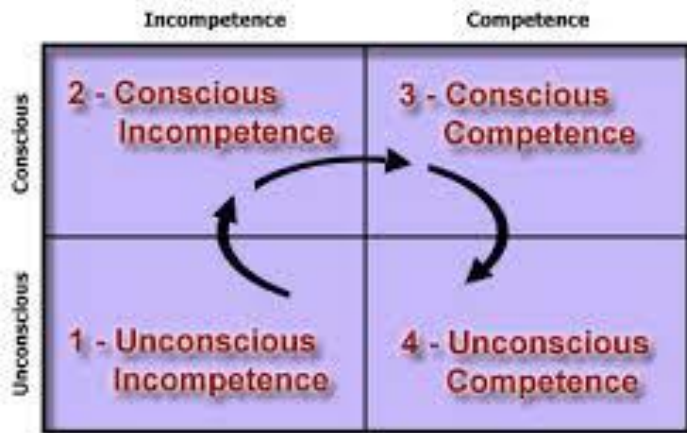
Program Competencies

- Each lab topic has competency check-off with critical thinking question
- Must pass prior to clinical practice
- Competency linked to NBRC detailed content outline



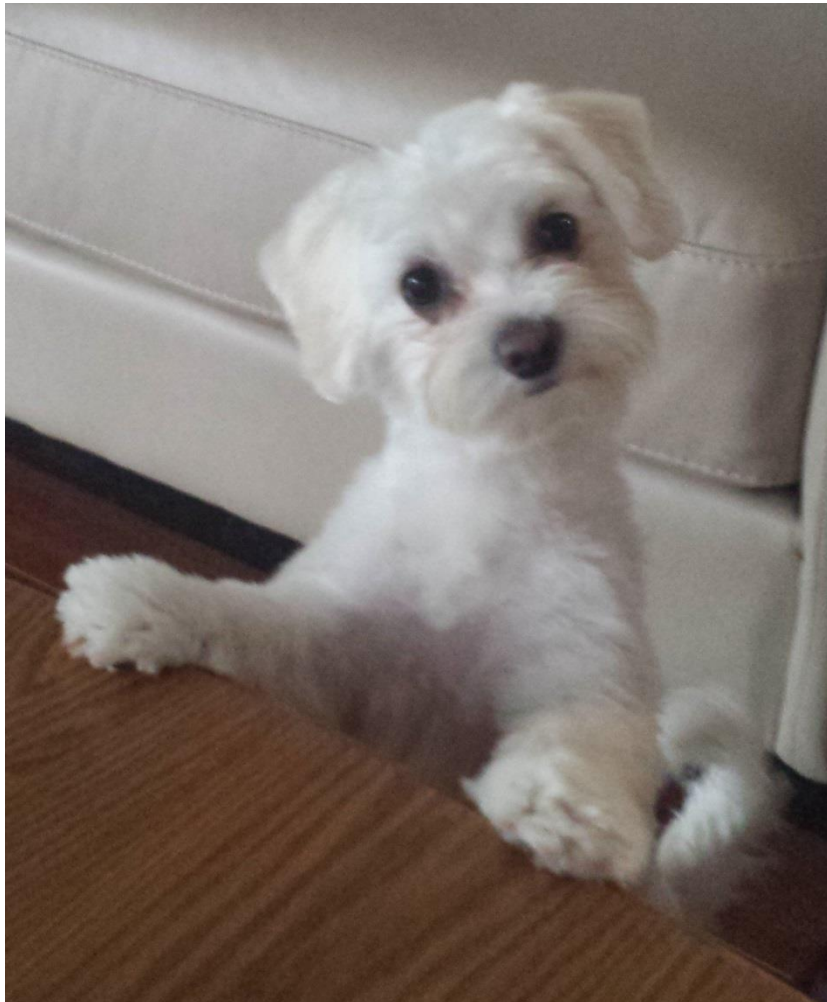
Inter-rater Reliability

- ❑ Instructors evaluate student performed competency
- ❑ Instructor scores compared for reliability
- ❑ Documentation required for accreditation
- ❑ Video and step by step scoring sheet



Conscious Competence Learning Matrix

QUESTIONS ??



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