It's Time to "Take Action" in the Classroom

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April 12, 2022; 12-1:30pm

Purpose and Objectives

Purpose - This session will guide the nurse educator through the process of enhancing classroom teaching strategies to promote the development of Clinical Judgement.

Objectives:

- 1. Describe the concept of "Small Teaching."
- 2. Create a list of ways to engage in the classroom by making small changes, to promote Clinical Judgement.
- 3. Begin to infuse Clinical Judgement terminology when designing class discussions, presentations, and lecture-level objectives.
- 4. Include one classroom strategy, each week, to promote Clinical Judgement.

Background

- ❖NCSBN April 2023
 - No changes in length (5 hours), delivery method (CAT), or unscored items (15)
 - ❖Adding 3 Case Studies to NCLEX-RN exam
 - Each Case Study will contain 6 NGN questions, formatted using NGN item types
 Items within Case Study are not adaptive
 - After minimum # of items, adding new NGN standalone item types

UPDATES

Design Specification	NCLEX Today	Next Generation NCLEX (NGN)
Total Items (min-max)	75-145	85-150
Total Scored Items (min – max)	60-130	70-135
Case Studies	N/A	3 (18 items)
Standalone Items (traditional + bowtie + trend, etc.)	60-130**	52-117**

https://www.ncsbn.org/NGN_Winter22_English_Final.pdf

Item Types

Figure 2

Overview of Item Types on NGN Organized by Response Type Grouping

All current NCLEX item types plus:

Extended Multiple Response: Drag-and-Drop: Highlight: Select All That Apply Cloze In Text Select N In Table Rationale Multiple Response Grouping **Drop Down Bowtie** Matrix/Grid: Cloze Trend: Multiple Response Rationale Can contain ALL new item Multiple Choice In Table types except Bowtie

https://www.ncsbn.org/NGN_Winter22_English_Final.pdf

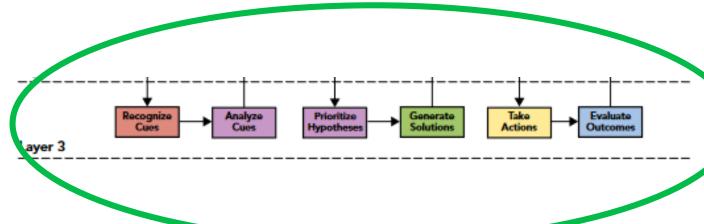
NCSBN Clinical Judgement Measurement Model (NCJMM)

NCJMM - measuring CJ

NCSBN Clinical Judgment Measurement Model Layer 0 Layer 1 Layer 2 Layer 3 Copyright @2019 NCSBN. All Rights Reserved.

Focus on Layer 3 -

Case Study: 1 question/step



https://www.ncsbn.org/NGN_Winter22_English_Final.pdf

Background Content – Sept 2021

- 1. Analyze use of active learning in course content
- 2. Examples of new ways to present information
- 3. Infusing NGN ...

Now it's time to "Take Action"



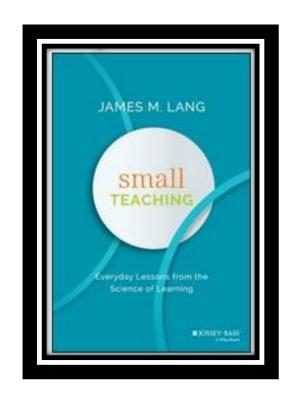


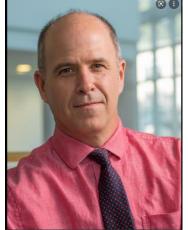
"Small Teaching: Everyday Lessons from the Science of Learning" — James Lang

Synthesis of scientific insights → translated into classroom strategies

3 sections:

- 1. Knowledge
- 2. Understanding
- 3. Inspiration





"Small Teaching"

1. Knowledge

- a. Retrieving
- b. Predicting
- c. Interleaving

2. Understanding

- a. Connecting
- b. Practicing
- c. Self-explaining

3. Inspiration

- a. Motivating
- b. Growing
- c. Expanding

"Small Teaching"

Knowledge – promotion of long-term memories

- ❖ Retrieving (Chapter 1)
 - * Key Takeaway "Put as simply as possible, the retrieval effect means that if you want to retrieve knowledge from your memory, you have to practice retrieving knowledge from your memory" (p. 20).
 - Ideas opening question (something from previous week), write highlights of required reading, closing question ("Muddiest Point"), quizzes or practice questions
- Predicting (Chapter 2)
 - * Key Takeaway "Making predictions about material that you wish to learn increases your ability to understand that material and retrieve it later" (p. 43).
 - ❖ Ideas provide information in context, ask for predictions (start from current knowledge → what's next?)
- ❖ Interleaving (Chapter 3)
 - ❖ **Key Takeaway** Interleaving "involves two related activities that promote high levels of long-term retention: (a) spacing out learning sessions over time; and (b) mixing up your practice of skills you are seeking to develop" (p. 65).
 - ❖ Ideas applying new content to novel context, cumulative exams, mix up topics when studying

"Small Teaching"

Understanding

- Connecting (Chapter 4)
 - ❖ **Key Takeaway** "For the connections to be meaningful and effective, the students have to form them. Your task is to create an environment that facilitates the formation of those connections rather than simply lecturing at them about connections" (Lang, 2016, p. 98).
 - ❖ Ideas concept maps, minute thesis, sharing of clinical experiences
- Practicing (Chapter 5)
 - **Key Takeaway** "Whatever cognitive skills you are seeking to instill in your students, and that you will be assessing for a grade, the students should have time to practice in class" (p. 117).
 - Ideas Repeated practice, contextual learning, reflection, sample test questions in class, provide ways to organize/manipulate information
- ❖ Self-explaining (Chapter 6)
 - **Key Takeaway** "Learners benefit from explaining out loud (to themselves or others) what they are doing during the completion of a learning task" (p. 138).
 - ❖ Ideas paraphrasing, peer instruction, think out loud "tell me what you were thinking"



- Predicting
- Interleaving

Knowledge

Understanding

- Connecting
- Practicing
- Self-Explaining

- Lecture-level objectives
- PowerPoint
- Clinical Context
- Learning Activities
- Classroom Technology

NGN in the Classroom

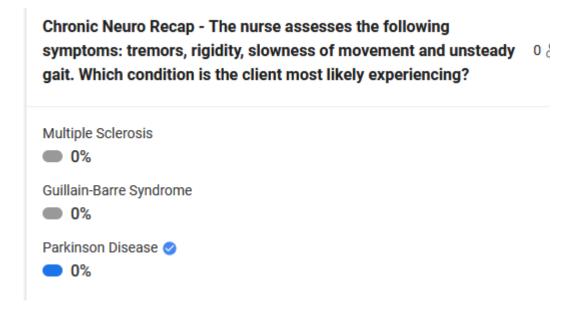
How to Use "Small Teaching" to Promote CJ – Lecture Objectives

Applying Lecture Objectives to Study Practices	Lecture Topics	Clinical Judgement Considerations - ADDED
Understand pathophysiology concepts and the mechanism of disease development	•Blood components •Normal hemostasis physiology, i.e., intrinsic vs extrinsic pathways •Hemostasis Pathophysiology (see objective #2 below for specific disorders)	Recognize Cues - normal vs. abnormal? Analyze Cues - What's relevant/important?
Create connections between pathophysiology concepts and patient specific findings: risk factors, signs and symptoms and lab/diagnostic tests	Excessive clotting (Deep vein thrombosis) Inadequate clotting (Thrombocytopenia) Gas Exchange/Transport (Anemia)	Prioritize Hypotheses - What's going on? What is the likely condition I have assessed?
Differentiate between select pathophysiologic concepts that impact patients in different ways	Various types of anemias: Microcytic, macrocytic and normocytic (see anemia table)	
Understand the following pharmacological principles for select medications: classifications, mechanism of action, side effects, adverse reactions	Medications listed in Med Table	Recognize Cues - What will I assess - before, during and after
Apply principles of the nursing process to administer pharmacological treatment modalities	Medications listed in Med Table	administration of the medication? Analyze Cues - Is it safe to administer this medication (5 Rights)? Is this the right medication for the situation I've assessed? Prioritize Hypotheses - Do I understand what symptoms I am
Anticipate and respond to complications associated with select pathophysiological processes and pharmacological treatment modalities	Refer to Med Table & PPTs & focus on: •Patho – Complications of Thrombocytopenia and DVT •Pharm - antiplatelet and anticoagulants adverse reactions	treating, and why? Generate Solutions - Are there alternatives to this medication? Take Action - Do I know how to administer this medication, by this route? Evaluate Outcomes - Did the medication result in improvement or deterioration of the patient's symptoms?
Consider how pathophysiology concepts and pharmacological treatments impact or inform the clinical presentation of patients: socioeconomic status, culture, race, and age	Focus on how risks of anticoagulation therapy affect different patient populations	Does the dose need to be held, repeated? Document evaluation.

How to Use "Small Teaching" to Promote CJ – Presentations

Knowledge: retrieving, predicting and interleaving

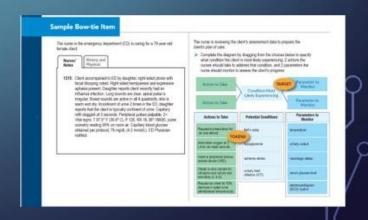
❖ First few minutes of class, have students recall information from prior week (Sli.do):



NGN - BOW TIE

- Seen after the minimum number of questions – 85 (max. 150)
- 3 parts
 - Middle first what is the condition…?
 - Then left side Priority Actions to Take
 - Last right Parameter to Monitor





Predicting....

- During class ask what will happen next?
 - **❖** Example 1 − free text
 - ❖ Example 2 Ext. MR

Example 1

slido



Share one assessment of a worsening clinical picture, in a patient with increasing ICP....

Example 2

The nurse assess acute changes in level of consciousness, in a patient with an acute head injury. Select from the list the top 3 priority assessments to observe and document? Select All that Apply

Presence of photophobia

0%

Respiration 0%

0%

Body temperature
0%

Pupil reaction to light 0%

Tinnitus
0%

Motor function 0%

NGN – EXTENDED MULTIPLE RESPONSE (N)

- Test taker is given number (N) of correct responses
- List of options may be up to 10
- Scoring +/- (you will earn a point for every correct response, and lose a point for every incorrect response)
- Score for this question 0-3 (never a negative score)

How to Use "Small Teaching" to Promote CJ - Clinical Context

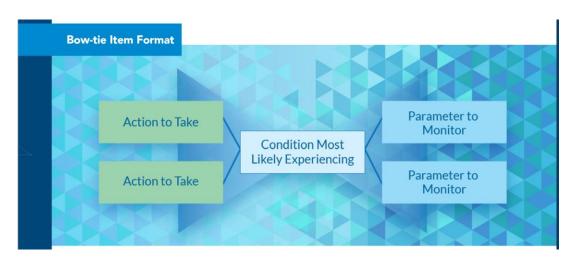
Interleaving – mix things up

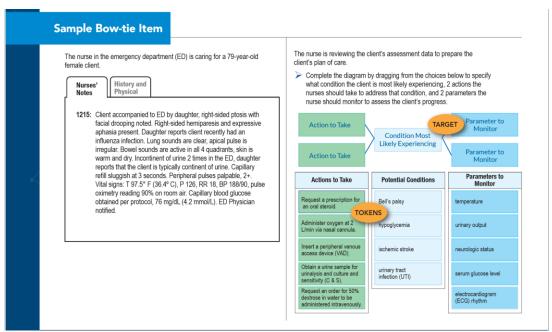
- Relate to work of nurse...their "future selves"
- After a mini-lecture, provide short case study
- Use a transition slide as a cue



How to Use "Small Teaching" to Promote CJ -Learning Activities

Use CJM as framework for assignments





Case Study Assignment - ExamSoft

- ❖Assignment previously was a paper
- This set of questions uses Cloze (Drop Down) format
- Knowledge question and Rationale

Case Study Assignment - ExamSoft

Select the appropriate medical diagnosis, Peripheral Artery (Occlusive) Disease or Acute MRSA Cellulitis for the signs/symptoms liste d.lf the s/s is presented by both Peripheral Artery (Occlusive) Disease AND Acute MRSA Cellulitis, mark < BOTH > for your answer choice.

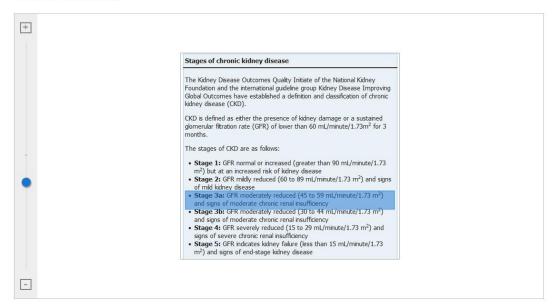
Pain with ambulation	1
Fever and chills	
Affected extremity edema	3
Increased heart rate	4
Pallor of affected extremity with elevation	5
Absent pedal pulses	6

- This set of questions uses Cloze (Drop-Down) format
- CJM Step 3 Prioritize Hypotheses

Case Study Assignment - ExamSoft

Place your pin on the **statement** in the reference below that best indicates Mr. Hadley's stage of chronic kidney disease, based on the most recent Creatinine Clearance (CrCl = GFR) level.

(Hot Spot: To earn credit for this question, the point of your pin must be placed directly on the words of the statement that answ ers the question prompt.)



- This set of questions uses Hot Spot
- ❖CJM Step 2 Analyze Cues

How to Use "Small Teaching" to Promote CJ – Self-Explaining

CJM Step 5 – Take Action

- ❖ Provide opportunities to explain difficult concepts
 - Patient education
 - ❖ Provide topics small groups
 - Generate excitement in scenario complexity
- ❖ Role Play
 - Nurse and patient roles
 - Medication administration
- ❖ Teach basic nursing skills in the context of a "real patient"
 - Use DocuCare to create case in HER
 - ❖ Skills are individualized for patient
 - Rationales are shared
 - Problem-solving is group activity

How to Use "Small Teaching" to Promote CJ – Classroom Technology

Connecting- Audience Response System – Apps

- **❖**Sli.do
- Poll EverywhereAnonymous

Practicing-

- **❖**Short quizzes
- *Recall activities*5 Minute Paper
- ❖Work in pairs/small teams
- Discussion BoardWeekly practice questions, via LMS

References

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