Next-Gen Learning On the Fly: Clinical Judgment for all Nursing Students

PRESENTED BY:

Tim Bristol, PhD, RN, CNE, ANEF

NurseTim[®] from NurseThink.com



Our Speaker



His motto...

"Today we will learn how to learn."

Tim Bristol, PhD, RN, CNE, ANEF

Owner NurseThink® NCLEX® Review Faculty Walden University Faculty FSIL Nursing - Haiti

Clinical Judgment

- The outcome of critical thinking a clinical decision making.
- CJ is the DOING outcome of learning and practicing
- NCSBN sees a need for more of this because
 - Increasing gap between practice / academia
 - Errors by novice nurses indicate lack in CJ
 - Continuing growth in complexity

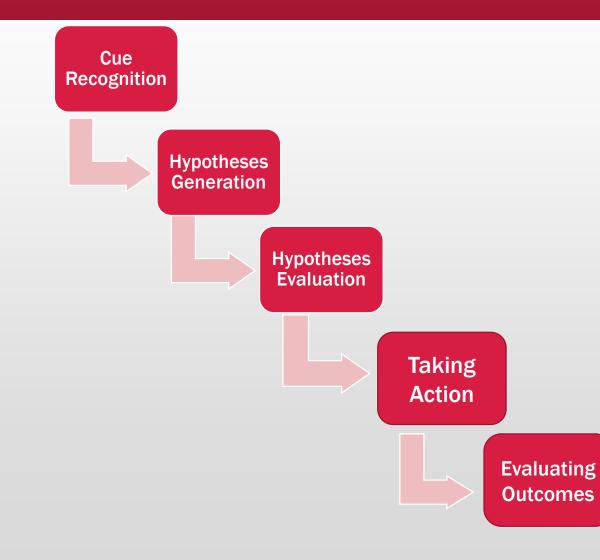


The Future - NCLEX

- Near increase in difficulty
- Not to far off change the type of testing / questions for more valid assessment of CJ



5 Steps to Clinical Judgment



- 1. Cue recognition
- 2. Hypotheses generation
- 3. Hypotheses evaluation
- 4. Taking actions
- 5. Evaluating outcomes

https://www.ncsbn.org/11435.htm

#1 Cue Recognition

- Example of a cue digital clubbing, vitals, statement by the client
- Is this information a priority?
- Is this information an indication of improvement / worsening?
- Extended multiple response where the test taker labels multiple items as "unrelated" "sign of improvement" or "sign of worsening"





Cue Recognition Learning

- Practice often and early
 - Start in fundamentals
- During class here are 3 patients with Crohn's disease, what is most concerning in each case scenario?
 - Don't tell them every time the 'correct' answer
- Integrated in a lab / sim / clinical



Be overt

CREATE Cue Recognition Habits

- Students write this on a 3x5 card...
 - Based on REDUCTION of RISK POTENTIAL from the test plan

For your client today, what are 3 things you can delegate and why? What are 3 things you can not delegate and why? Present to a peer for feedback.

CREATE Cue Recognition Habits

- Now students, using the case study
 - Open your lab book
 - Try to create three lab values.

\leftarrow	Prenatal Period
Priority co	ncepts
Developme	ent, Reproduction
critical thi	nking
What Shou	ıld You Do?
upon awak	ant client at 8 weeks of gestation tells the nurse that she is experiencing morning sickness ening. By lunchtime, she no longer has issues with nausea and vomiting. What should the uct the client to do to assist in relief of this common morning discomfort?
Answer loc	ated on <u>link</u>
	Time from fertilization of the ovum until the estimated date of delivery About 280 days
	Nägele's rule for estimating the date of delivery, also known as date of birth (<u>Box 25-1</u>)
С.	1. Use of Nägele's rule requires that the woman have a regular 28-day menstrual
	cycle.
	2. Subtract 3 months and add 7 days to the first day of the last menstrual period;
B. Gravi	then add 1 year if appropriate. Alternatively, add / days to the last menstrual period and count forward 9 months.
A.	
	and count forward 9 months.
	and count forward 9 months. dity and Parity
	dity and Parity Gravidity
	and count forward 9 months. dity and Parity Gravidity 1. Gravida refers to a pregnant woman.
	and count forward 9 months. dity and Parity Gravidity 1. Gravida refers to a pregnant woman. 2. <i>Gravidity</i> refers to the number of pregnancies.
	and count forward 9 months. dity and Parity Gravidity 1. Gravida refers to a pregnant woman. 2. <i>Gravidity</i> refers to the number of pregnancies. 3. A nulligravida is a woman who has never been pregnant.
В.	and count forward 9 months. dity and Parity Gravidity 1. Gravida refers to a pregnant woman. 2. <i>Gravidity</i> refers to the number of pregnancies. 3. A nulligravida is a woman who has never been pregnant. 4. A primigravida is a woman who is pregnant for the first time.

2. A nullipara is a woman who has not had a birth at more than 20 weeks of gestation.

CREATE Cue Recognition Habits

K Back Main Index Index

 Review what you find in the Lab Guide

Q potassium	8	Blood	Q sodium	8	Blood	
(PPG)		Normal Findings	s testing		Normal Findings	\rightarrow
Posttransfusion purp Potassium (K)-anion gap and		 Adult/elderly: 3.5-5.0 mEq/L or 3.5-5.0 mmol/L (SI units) Child: 3.4-4.7 mEq/L Infant: 4.1-5.3 mEq/L 	Society for Maternal- Fetal Medicine (SMFM)		 Adult/elderly: 136-145 mEq/L or 136-145 mmol/L (SI u Child: 136-145 mEq/L Infant: 134-150 mEq/L 	nits)
Potassium (K)-blood	• A B	Newborn: 3.9-5.9 mEq/L Critical Values	Sodium (Na)-fraction excretion of	ы А В	Newborn: 134-144 mEq/L Critical Values	÷
Potassium (K)-urine	C D	Possible Critical Values	Sodium (Na)-potassiu level and	m C D	Possible Critical Values	
Potassium (K)-with calcium and magnesi	um F	• Adult: <2.5 or >6.5 mEq/L	Sodium (Na)-urine	E F G	<120 or >160 mEq/L	
Potassium iodide, thyroid-stimulating hormone and	н	Newborn: <2.5 or >8 mEq/L	Sodium (Na)-values, of children	н	Test Explanation and Related Physiology	\rightarrow
PPD (purified protein derivative) test	J N K L	Test Explanation and Related Physiology Image: Comparison of the physiology Potassium (K) is the major cation within the cell. Normal serum K	Sodium resorption	J K L	Sodium is the major cation in the extracellular space, in v serum levels of approximately 140 mEq/L exist. Therefore salts are the major determinants of extracellular osmolal	e sodium
PPG (postprandial glucose)	M N	concentration is approximately 4 mEq/L. Because the serum concentration of K is so small, minor changes in concentration have	Soft tissue swelling, i bone x-ray	л м N	sodium content of the blood is a result of a balance betw sodium intake and renal excretion.	5
PRA (plasma renin activity)	O P Q	significant consequences. K is excreted by the kidneys, and there is no resorption of K from the kidneys. Therefore if K is not adequately supplied in the diet (or by IV administration in patients who are	Soluble fms-like tyrosine kinase-1 (sFlt-1)	O P Q	Many factors regulate homeostatic sodium balance. Aldo	
PRA (progesterone receptor assay)	R S	unable to eat), serum K levels can drop rapidly.	Somatomedin C	R S	Natriuretic hormone, or third factor, increases renal losse sodium. Antidiuretic hormone (ADH), which controls the	es of
PRC (plasma renin concentration)	T U V	Serum K concentration depends on many factors, including the following:	Somatomedins	T U V	of water at the distal tubules of the kidney, also affects se sodium levels.	•
•••• Prealbumin (PAB)	w x	Aldosterone. This hormone tends to increase renal losses of K. Codium recerction to codium is recorded. K is lost	Somatosensory-evoka responses (SERs)	w be x	Physiologically, water and sodium are very closely interre free body water is increased, serum sodium is diluted, an	
Preeclampsia	Y Z	 Sodium resorption. As sodium is resorbed, K is lost. Acid-base balance. Alkalotic states tend to lower serum K levels by causing a shift of K into the cell. Acidotic states tend to raise 	Somatosensory-evok responses (SERs)- abnormal latency for	ed Y z	concentration may decrease. The kidney compensates by sodium and excreting water. If free body water were to d	conserving
Pregnancy		serum K levels by reversing that shift.	Somatotropin hormon (SH). See Growth hormone (GH)	e	the serum sodium concentration would rise; the kidney w respond by conserving free water.	vould then
Pregnancy-associate plasma protein-A (PAPP-A)		An electrocardiogram may demonstrate peaked T waves, a widened QRS complex, and depressed ST segment in hyperkalemia.	Sonogram. See Ultrasound		Clinical Concerns	2

K Back Main Index Index

Potassium, Blood (K)

Sodium (Na), Blood

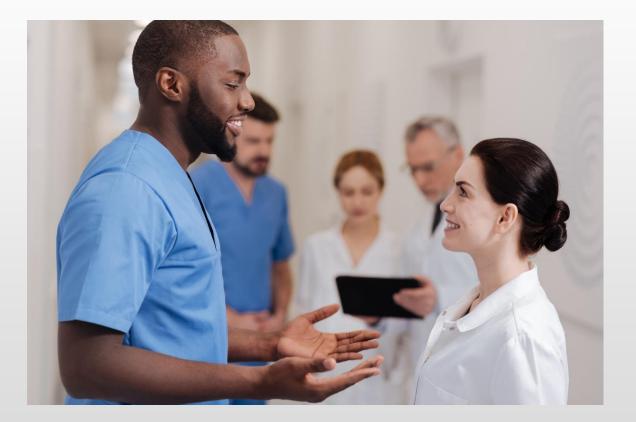
#2 Hypothesis Generation

- A lot of talk about PRIORITIZE
- A lot of talk about what needs to be done to get the best outcomes for the client
- Extended drag and drop, no longer a list of tasks performed in the correct order...

Care of one client OR Care of multiple clients OR Plans for teams

#3 Hypothesis Evaluation

- Compare with the evidence base
- Compare with the priority client needs
- Compare with ideas from peers



Hypothesis Generation/Evaluation Learning

- Of these 3 patients, who is most at risk for cervical cancer? (drag the client scenario into the correct location)
- Of these 3 clients, who is most at risk for lung cancer? (drag the client scenario into the correct location)
- Of these 3 clients, who is most at risk for ovarian cancer? (drag the client scenario into the correct location)
- Allow the students the opportunity to CREATE some of this on their own. Then compare with a peer.

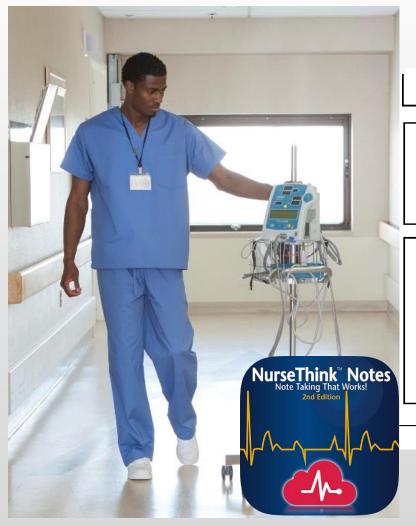


Hypothesis Generation/Evaluation Learning

 How did you do with planning for this client?

Kerner Ke	Index Rheumatoid Arthritis
Q rheuma	Goals
RF (Rheumatic feve	The patient with RA will have satisfactory pain relief and minimal loss of functional ability of the affected joints, participate in planning and carrying out the therapeutic regimen, maintain a positive self-
Rheumatic fever (R	F) image, and perform self-care to the maximum amount possible. Nursing Diagnoses
Rheumatic heart di	
Rheumatoid arthrit (RA)	 Impaired physical mobility Disturbed body image
Rhonchi	D Nursing Interventions
RIFLE classification	 Prevention of RA is not possible at this time. However, community education programs should include information on symptom recognition to promote early diagnosis and treatment. The primary
Right-sided failure	goals in the management of RA are reduction of inflammation, management of pain, maintenance of joint function, and prevention
RLS (Restless legs syndrome)	 or correction of joint deformity. Interpreting the second se
Rolling hiatal herni	 N swelling, range of motion, general health status), psychosocial assessment (family support, sexual satisfaction, emotional stress,
Roux-en-Y gastric bypass (RYGB)	 financial constraints, vocation and career limitations), and environmental concerns (transportation, home, and work
Rule of Nines chart	U
RYGB (Roux-en-Y gastric bypass)	 Suppression of inflammation may be effectively achieved through the administration of NSAIDs, DMARDs, and biologic/targeted therapies. Discuss the action and side effects of each drug and the innections of the states are stated.
Salmonella	 the importance of necessary laboratory monitoring. Make the drug regimen as understandable as possible. Nondrug management may include the use of therapeutic heat
Salpingitis	and cold, rest, relaxation techniques, joint protection, biofeedback, transcutaneous electrical nerve stimulation (TENS), and hypnosis.
Salpingo-oophorec	

DO NurseThink[®]



Priority Assessments	Priority Labs & Diagnostics	Priority Nursing Interventions
1	1	1
2	2	2
3	3	3
Priority Medications	Priority Potential & Actual Complications	Priority Collaborative Goals
1	1	1
2	2	2
3	3	3
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NurseThink.com	Learn Right the First Time	13

#4 Taking Actions

- Remember CJ is the DOING part of Critical Thinking and Clinical Decision making
- The candidate SORTS the hypotheses and addresses the highest PRIORITY



Taking Actions - Learning

- Question type, where the test taker analyzes the nurse's actions at multiple points throughout the shift
 - When did the nurse intervene incorrectly? What did the nurse do? What should the nurse have done instead?
- Need to DO this often in class!
 - Less emphasis on facts
 - More emphasis on concepts and actions



Taking Actions - Learning

- In class Up out of your seats AND PAIR UP, take your phones and take a look at your MED SURG CLINICAL COMPANION in Skyscape! Then review the NurseThink[®] Notes – PRIORITY NURSING INTERVENTIONS
- After reviewing your clinical companions DO at least 2 assessments and 2 interventions (clinical imagination) based on the concept we have been studying

Skills Hub Learn

 \leftarrow Medication and Blood Administration \bigcirc



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5

Ear: Irrigations & Medication

Eye: Irrigations & Medication

Inhaled: Aerosol Therapy (SVN) & Metered-dose Inhalers



Intradermal Injection



Intramuscular Injection



Intravenous: Blood Administration



Intravenous: Continuous Infusion: Priming IV Tubing



Intravenous: Dilution and Reconstitution



Medication and Bl... 🚔 主

INTRADERMAL INJECTION

CRITICAL ELEMENTS

 \leftarrow

• Prepare medication for one patient at a time

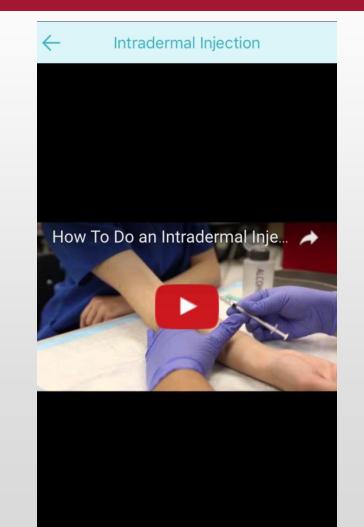
v

- Calculate accurately, the dosage, confirming safe dose range
- Verbalize potential adverse effects and any monitoring requirements
- Perform 3 checks for safe medication administration
- Utilize 2 patient identifiers
- Evaluate patient allergies

PROCEDURE

Prior to Treatment: (Critical Thinking)

- Assess patients need for treatment?
- Confirm order



Skills Hub Log

← Medication and Bl... 🚔 💽

INTRADERMAL INJECTION

CRITICAL ELEMENTS

- Prepare medication for one patient at a time
- Calculate accurately, the dosage, confirming safe dose range
- Verbalize potential adverse effects and any monitoring requirements
- Perform 3 checks for safe medication admi Back tion



Prior to Treatment: (Critical Thinking

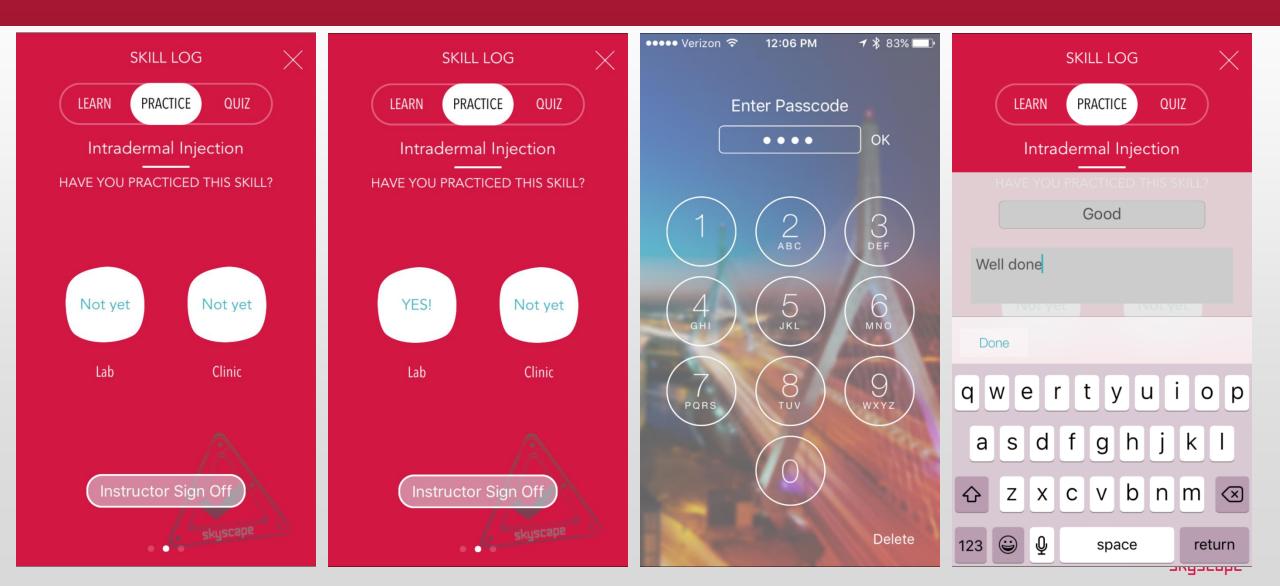
Confirm order

AsTap on the desired menu itement

SKILL LOG SKILL LOG \times SKILL LOG LEARN PRACTICE LEARN PRACTICE QUIZ PRACTICE QUIZ Intradermal Injection COMFORTABLE WITH YOUR KNOWLEDGE? HAVE YOU PRACTICED THIS SKILL? HOW WELL DO YOU KNOW? Not yet Not yet YES! Clinic Lab RESET Instructor Sign Off

'dacob.

Skills Hub Practice



Skills Hub Quiz



← Intradermal Injection

Which infection control standard causes the most injuries to nurses in the delivery of intradermal injections?

A Needle sticks from improper disposal of sharps

B Blood splash from bleeding injection sites

C Blood contamination from not using gloves

D Needle sticks from placing the syringe in the bed

Check



Skills Hub: Student Summary Report

sky	scape						search		Go
APPS	PRODUCTS	sснос	LS/G	ROUPS	BLOG M	IY ACCOUN	IT ABC	DUT US	CART (0)
STUDE	NT SUMMA	RY							
C.h.	udant Nana	PRACTICE		CTICE					
St	udent Name	LEARN	Lab	Clinic	Attempted	Correct	Wrong	Unatte	mpted
Funda	mentals								
Maxwe	ll Edison	11	7	4	14	9	5	()
Clara B	ella	12	11	9	32	18	14	4	2
Dennis	ODell	11	10	9	38	21	17	()
Molly Jo	ones	11	10	8	25	15	10	Ĩ	2
Loretta	Martin	12	11	10	38	27	11	()
Billy Sh	ears	12	11	10	47	32	15	()
Practio	e								
Maxwe	ll Edison	11	9	8	33	24	9	-	l
Clara B	ella	9	7	7	25	19	6	()
Dennis	ODell	7	5	4	16	9	7		1

Skills Hub: Detail Report of Student

DETAIL REPORT OF STUDENT

Student Name : Maxwell Edison Student Email : skillsgrouptest@skyscape.com Date : 4/7/2016 3:16:42 PM

	LEARN	PF	RACTICE			QUIZ			FEEDBACK	
	LEARN	LAB	CLINIC	Q1	Q2	Q3	Q4	Q5	FEEDBACK	
Airway and Oxygen										
Chest Physiotherapy			٠	~	✓	✓	×	✓	Excellent	Ð
Incentive Spirometer			٠	~	~	1	✓		Excellent	Ð
Oxygen Delivery: Mas			٠	~	~	✓			Good	Ð
Suctioning: Oral & N			٠	~	~				Poor	Ð
Suctioning: Endotrac									Good	Ð

#5 Evaluate Outcome

- What cues does the nurse look for?
- Compare outcome against what was expected
- Expanded drag and drop, Extended multiple response, Scenario questions



Evaluate Outcome - Learning

- Scenario question
 - Multiple response what are the priority cues
- Scenario action
 - Multiple response what are the actions to take
- Scenario evaluate outcome
 - Multiple response what outcomes are most concerning



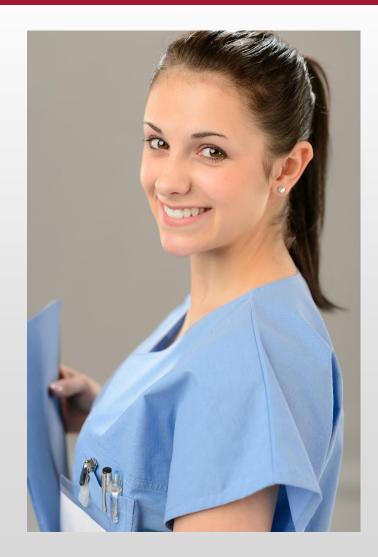
NEXT GEN LEARNING FOR NURSING EDUCATION

Learning – Are they ready?

- Help students take ownership of their classroom prep and classroom followup by showing them what to do!!!
- Students take out your phones and let's spend 10 minutes in NCLEX Practice



Save Time Studying





COMPREHENSIVE REVIEW FOR THE

NCLEX-RN[®] EXAMINATION

LINDA ANNE SILVESTRI

- Reflects the latest NCLEX-RN* exam test plan
- Content review that you can use throughout nursing school
- Thousands of the highest-quality review questions, including alternate item formats



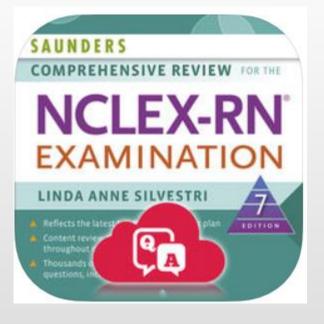
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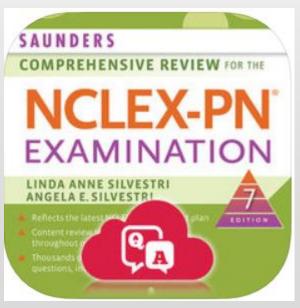
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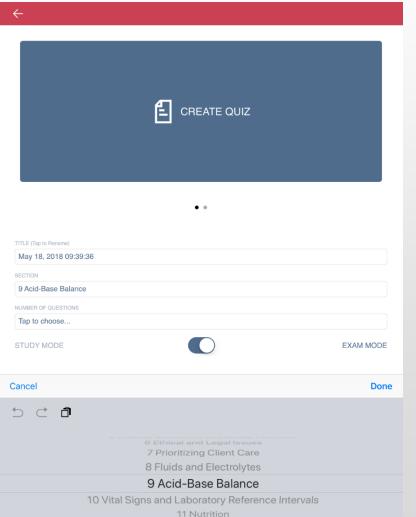
TOITION



Know what you Don't Know

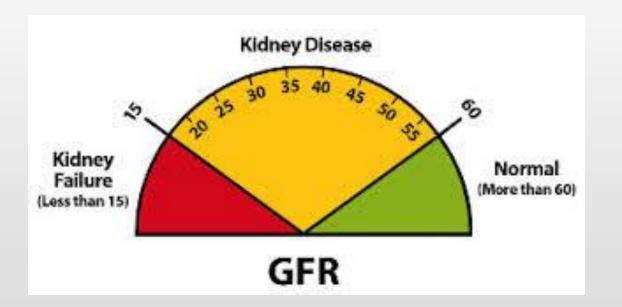






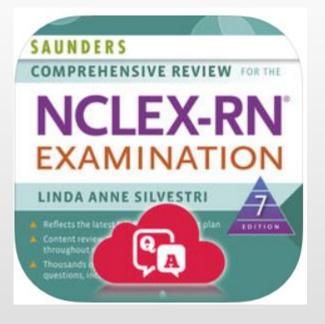
11 Nutrition

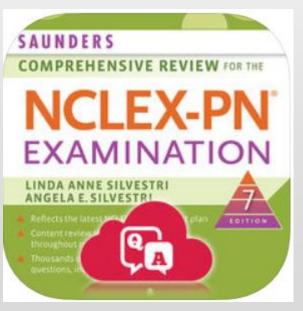
Know what you Don't Know



31 60°		* 4G	.nl 93% 🛿 9:41 AM
←		Question 4686	III 口
estim are so	ated glom ome condi [:]	viewing the laborat erular filtration rat tions that can caus I l that apply.	e (eGFR). What
10	Shock		
2□	Cystitis		
3	Dehydrati	on	
4	Fluid over	load	
5	Heart fail	ure (HF)	
6	Cirrhosis	with ascites	
<		SUBMIT	
	Tap		<

TRACK what you Don't Know





	veak areas
All	All
Question Type ent need Catego et Cogoliuse 24	
Question Stats Tap to Review/Attempt	
Correct	16 of 6138
Correct Multiple Attempts	2 of 6138
Incorrect	24 of 6138
Okinned	0 of 6138
Skipped	

Tap here to fill entire screen

 \leftarrow



TRACK what you Don't Know



Tap here to fill entire screen





Know what you Don't Know

- Each question has rationale
- Features ASK AN EXPERT service where nurse educators are on standby to provide clarification if a student needs help or clarification of an answer or rationale.

ি 93% û 9:42 AM Question 4686

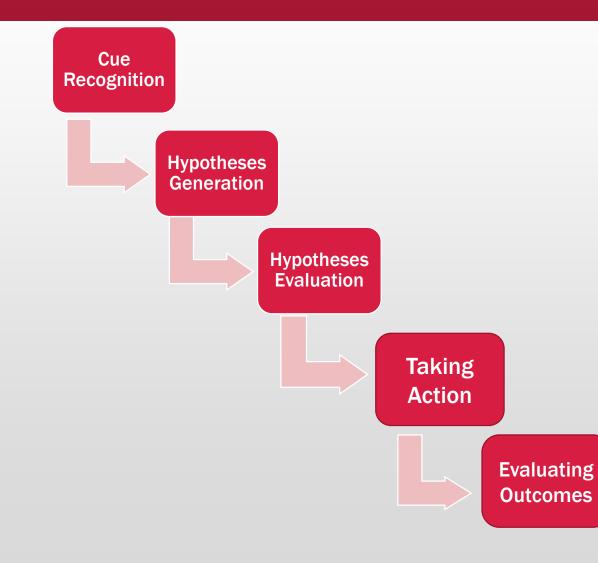
Rationale:

31 60°

eGFR is an equation that uses the serum creatinine, age, and numbers that vary depending on sex and ethnicity to calculate the eGFR with very good accuracy. The value may be inaccurate in extremes of age; in clients with severe malnutrition or obesity, paraplegia, or quadriplegia; and in pregnant women. The eGFR can also be used to calculate medication dosage in clients with decreased renal function. Conditions causing decreased eGFR are shock, dehydration, HF, and cirrhosis with ascites. Decreased eGFR is not related to cystitis or fluid overload. Conditions that are associated with decreased blood flow to the kidney will decrease eGFR. Shock, dehydration, HF, and cirrhosis with ascites can lead to impaired kidney function related to renal artery atherosclerosis, glomerulonephritis, and acute tubular necrosis.

> ASK AN EXPERT Tap here to fill entire screen

Learning / Be Overt - 5 Steps to Clinical Judgment

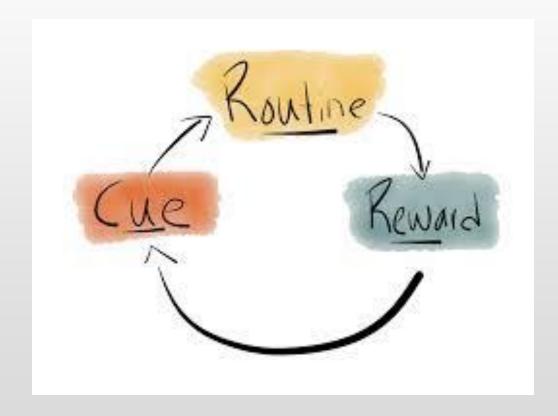


Use this language...it's ok

- 1. Cue recognition
- 2. Hypotheses generation
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https://www.ncsbn.org/11435.htm

Clinical Judgment Requires Formation of Habits



- What can be done in class, lab/sim, and clinical?
- What can be done in all semesters?
- What can be done with any lesson plan?

Q & A

NEXT GEN LEARNING FOR NURSING EDUCATION

Ask a question



Please post your question in the chat window.



Thank You

- Contact us for more information on Skyscape Solutions
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