

Using the Maryland NextGen Test Bank For Students

Rebecca Wiseman, PhD, RN
Project Director
Director, Maryland Nursing
Workforce Center



UNIVERSITY *of* MARYLAND
SCHOOL OF NURSING
MARYLAND NURSING
WORKFORCE CENTER

About The Maryland NextGen Test Bank

- The project was created to develop Next Generation NCLEX-Style items placed in an open (not secured) Qualtrics test bank that all faculty and students in Maryland can access and use to prepare for the Next Generation NCLEX.
- The Maryland NextGen Test Bank Project was funded by the Maryland Nursing Workforce Center as part of a grant from the Maryland Higher Education Commission Nurse Support Program II # 20-125.

About The NextGen NCLEX

- ◇ Starting April 1, 2023, graduates will take an updated version of the National Council Licensure Exam referred to as Next Generation NCLEX.
- ◇ Next Generation NCLEX (NGN) will continue to test a candidate's ability to provide safe client care while incorporating new methods to better test clinical judgment.
- ◇ The testing methods will include using new item response types in clinical judgment case studies and stand-alone questions to test the NCSBN Clinical Judgment Measurement Model (NCJMM) (<https://www.ncsbn.org/exams/next-generation-nclex/NGN+Resources/clinical-judgment-measurement-model.page>)

The Five New Item Response Types

- Extended multiple response items with increased answer options.
- Drag-and-drop items that involve moving options to placeholders.
- Drop-down items where candidates select the missing words from sentences, paragraphs, or tables.
- Highlight items that require candidates to identify parts of the medical record to answer questions.
- Matrix/grid items that involve completing tables of information.

Case Studies

- Unfolding case studies use approved NGN item types to answer questions about evolving real-world nursing scenarios.
- Case studies present 6 linked questions to test the 6 steps of the NCJMM in order:
 1. Recognize cues
 2. Analyze cues
 3. Prioritize hypotheses
 4. Generate solutions
 5. Take action
 6. Evaluate outcomes
- Candidates should expect to complete at least 3 case studies in a minimum length 85 question NCLEX exam.

Stand-alone Item Types

- Stand-alone (single) items test either client needs or clinical judgment
 - Client needs items are primarily traditional NCLEX style questions
 - Clinical judgment items present information in a clinical scenario specifically targeting one or more NCJMM clinical judgment step.
- There are 2 unique types of clinical judgment stand-alone items:
 - Bow-tie
 - Trend
- Clinical judgment stand-alone items make up approximately 10% of stand-alone items.

Stand-alone Item: Bow-tie

- A bow-tie is a drag-and-drop response item variation.
- After reading a clinical scenario, candidates move response options (tokens) to placeholders (targets).
 - On NCLEX the placeholders are arranged in the shape of a bow-tie.
- Candidates must select:
 - 1 condition the client is most likely experiencing from 4 options.
 - 2 actions to take to address the condition from 5 options.
 - 2 parameters to monitor the client's progress from 5 options.

Stand-alone Item: Trends

- Trend items require the candidate to make clinical judgments based on client data presented at different time points.
- Trend items may address one or more clinical judgment steps but do not follow the six-item sequence like case studies do.
- Trend items can feature any item response type except the drag-and-drop bow-tie variation.

About this Test Bank

- This test bank is designed to give students practice answering case studies and stand-alone items in an electronic format.
- While questions throughout the test bank use all 5 new item response, not all specific variations that might be used on NCLEX are not included such as drop-down items formatted as a table.
- Students use information from a medical record to answer questions, but the medical record will display differently on the actual NCLEX.
- To see how items will exactly appear on NCLEX see tutorials at <https://nclex.com/next-generation-nclex.page>

Getting Started

- Faculty assign a clinical judgment case study, trend, or bow-tie.
- Access the clinical judgment item in one of 3 ways:
 - A URL (Link) provided by the instructor
 - A QR code provided by the instructor
 - Searching the NextGen NCLEX Test Bank for the item by name at:
<https://www.nursing.umaryland.edu/mnwc/mnwc-initiatives/nextgen-nclex/nextgen-nclex-test-bank/>
- For best results, access the clinical judgment items with a computer or tablet rather than a phone or smart watch.

The Site is Searchable


NCLEX Next Gen Test Bank

Filter by keyword(s)

^ **Case Study**

[Acute Respiratory Failure Case Study](#) 

[Acute Respiratory Failure Trend](#) 

[Anorexia with Dehydration Bow-Tie](#) 

[Anorexia with Dehydration Case Study](#) 

[Asthma Bow-Tie](#) 

[Asthma Case Study](#) 

The First Screen Provides Instructions



In this case study, you will answer 6 Next Generation NCLEX style questions. Click the Next arrow at the bottom of the screen to advance to the next question. You must answer each question before advancing to the next question. Backtracking is not allowed. Download your answer summary after answering the last question. Follow instructions you have been given for reviewing or submitting the answer summary.

Use the arrow to
advance the screens
There is no backtracking



In this case study, you will answer 6 Next Generation NCLEX style questions. Click the Next arrow at the bottom of the screen to advance to the next question. You must answer each question before advancing to the next question. Backtracking is not allowed. Download your answer summary after answering the last question. Follow instructions you have been given for reviewing or submitting the answer summary.



Answer the Questions

Case Study Question 1 of 6

The nurse cares for a 78-year-old female admitted to the medical intensive care unit in respiratory distress.

Nurses' Notes

0900. Client was admitted to the ICU in respiratory distress after minimal response to high flow oxygen for a pulse oximeter reading of 83% in room air. Crackles heard bilaterally in lower lobes with diminished breath sounds in right middle lobe; S1S2 auscultated; bowel sounds positive in all 4 quadrants; skin warm dry and intact. VS T 99.8F(37.7C); HR 110; RR 30 bpm; B/P 168/90; pulse oximeter is 87% on 100% non-rebreather; pain-0/10.

Laboratory Report

Lab	Results	Reference range
ABG pH	7.2	7.35-7.45
ABG PO ₂	75 mm Hg	75-100 mm Hg
ABG PCO ₂	51 mm Hg	35-45 mmHg
ABG HCO ₃	28 mEq/L	22-26 mEq/L
WBC	35,000 cells/mm ³	4.5 – 10.5 x 10 ³ cells/mm ³
Platelets	250,000/ mm ³	140,000 to 450,000/ mm ³
Potassium(serum)	4.0 mEq/L	3.5 to 5 mEq/L
Sodium (serum)	140 mEq/L	135 to 145 mEq/L
Magnesium	1.5 mEq/L	1.5 to 2.1 mEq/L
Lactate level	4.5 mEq/L	0.5 to 2.2 mEq/L
Blood culture	Gram negative cocci	negative
Urine culture	pending	negative
Sputum culture	pending	negative

- Read the instructions carefully.
- Sometimes the question tells how many options to pick.
- Other times you select all that apply.
- Some questions will not allow you to advance if they have not answered enough options.
- Use the arrow to advance to the next question if doing a case study

Which 4 findings are most urgent?

- B/P 168/90
- WBC 35,000 cells/mm³
- Lactate 4.5 mEq/L
- Ph 7.2
- PCO₂ 50 mm Hg
- PO₂ 75 mm Hg
- Respiratory rate 30 bpm
- Gram negative cocci
- Pulse oximeter 87%



In Tables, Follow Instructions for How Many Options May be Selected in a Row.

Circles allow only one selection per row

The nurse plans care for the client after beginning mechanical ventilation.

For each potential intervention, click to specify whether the intervention is indicated or not indicated to include in the plan of care.

	Indicated	Not Indicated
Administer sedatives	<input type="radio"/>	<input type="radio"/>
Repeat chest- Xray	<input type="radio"/>	<input type="radio"/>
Schedule suctioning every 2 hours	<input type="radio"/>	<input type="radio"/>
Administer amiodarone	<input type="radio"/>	<input type="radio"/>
Administer IV antibiotics	<input type="radio"/>	<input type="radio"/>
Position supine with head midline	<input type="radio"/>	<input type="radio"/>
Obtain an electrocardiogram	<input type="radio"/>	<input type="radio"/>

Boxes are used when multiple selections per row may be selected.

For each finding click to indicate if the finding is consistent with Acute Respiratory Failure or Pneumonia. Each finding may support more than one condition. Each columns must have at least one option selected.

	Acute Respiratory Failure	Pneumonia
Crackles bilateral lower lobes	<input type="checkbox"/>	<input type="checkbox"/>
Pulse oximeter 87% on 100%	<input type="checkbox"/>	<input type="checkbox"/>
PCo2 51 mmHg	<input type="checkbox"/>	<input type="checkbox"/>
pH 7.2	<input type="checkbox"/>	<input type="checkbox"/>

Highlight Questions

Questions first show a plain EMR page

The Nurse receives orders.

Click to highlight the 3 orders the nurse should implement first.

Orders	
Category	Orders
Nursing	Insert urinary catheter Suction endo tracheal tube as needed Titrate oxygen to keep pulse oximeter above or equal to 95
Medications	Start IV of 0.9% normal saline at 75ml/hr Amoxicillin 500 mg IVPB every 12 hours Midazolam 2 - 4 mg IVP every 1hr as needed for agitation Acetaminophen 650 mg per rectum every 8 hrs as needed for T> 100.8 F
Monitoring	Perform 12 lead EKG Call for chest x-ray Blood gas in 30 minutes

Hovering cursor makes boxes appear around selectable data

The Nurse receives orders.

Click to highlight the 3 orders the nurse should implement first.

Orders	
Category	Orders
Nursing	Insert urinary catheter Suction endo tracheal tube as needed Titrate oxygen to keep pulse oximeter above or equal to 95
Medications	Start IV of 0.9% normal saline at 75ml/hr Amoxicillin 500 mg IVPB every 12 hours Midazolam 2 - 4 mg IVP every 1hr as needed for agitation Acetaminophen 650 mg per rectum every 8 hrs as needed for T> 100.8 F
Monitoring	Perform 12 lead EKG Call for chest x-ray Blood gas in 30 minutes

Click the box to apply the highlight; Second click removes it

Orders	
Category	Orders
Nursing	Insert urinary catheter Suction endo tracheal tube as needed Titrate oxygen to keep pulse oximeter above or equal to 95
Medications	Start IV of 0.9% normal saline at 75ml/hr Amoxicillin 500 mg IVPB every 12 hours Midazolam 2 - 4 mg IVP every 1hr as needed for agitation Acetaminophen 650 mg per rectum every 8 hrs as needed for T> 100.8 F
Monitoring	Perform 12 lead EKG Call for chest x-ray Blood gas in 30 minutes

Submit the Final Question and Click Download PDF from Thank You Screen

We thank you for your time spent taking this survey.
Your response has been recorded.

Below is a summary of your responses

[Download PDF](#)

- ◇ It is the only way to save your answers.
- ◇ This step is critical!

In this case study, you will answer 6 Next Generation NCLEX style questions. Click the Next arrow at the bottom of the screen to advance to the next question. You must answer each question before advancing to the next question. Backtracking is not allowed. Download your answer summary after answering the last question. Follow instructions you have been given for reviewing or submitting the answer summary.

The Response Summary Shows Your Answers

- ◆ Follow your faculty's instructions for saving the response summary.
- ◆ They may have you print it out, save it to computer, or upload it to a learning management system.
- ◆ **The response summary DOES NOT give you the correct answers.**
- ◆ Faculty will explain how they will provide you with the correct answers.

We thank you for your time spent taking this survey.
Your response has been recorded.

Below is a summary of your responses [Download PDF](#)

In this case study, you will answer 6 Next Generation NCLEX style questions. Click the Next arrow at the bottom of the screen to advance to the next question. You must answer each question before advancing to the next question. Backtracking is not allowed. Download your answer summary after answering the last question. Follow instructions you have been given for reviewing or submitting the answer summary.

Case Study Question 1 of 6
The nurse cares for a 78-year-old female admitted to the medical intensive care unit in respiratory distress.

Nurses' Notes

0900. Client was admitted to the ICU in respiratory distress after minimal response to high flow oxygen for a pulse oximeter reading of 83% in room air. Crackles heard bilaterally in lower lobes with diminished breath sounds in right middle lobe; S3S2 auscultated; bowel sounds positive in all 4 quadrants; skin warm dry and intact. VS T 99.8F(37.7C); HR 110; RR 30 bpm; B/P 168/90; pulse oximeter is 87% on 100% non-rebreather; pain-0/10.

Laboratory Report

Lab	Results	Reference range
ABG pH	7.2	7.35-7.45
ABG PO ₂	75 mm Hg	75-100 mm Hg
ABG PCO ₂	51 mm Hg	35-45 mmHg
ABG HCO ₃	28 mEq/L	22-28 mEq/L
WBC	35,000 cells/mm ³	4.5 - 10.5 x 10 ³ cells/mm ³
Platelets	250,000/mm ³	140,000 to 450,000/mm ³
Potassium[serum]	4.0 mEq/L	3.5 to 5 mEq/L
Sodium [serum]	140 mEq/L	135 to 145 mEq/L
Magnesium	1.5 mEq/L	1.5 to 2.1 mEq/L
Lactate level	4.5 mEq/L	0.5 to 2.2 mEq/L
Blood culture	Gram negative cocci	negative
Urine culture	pending	negative
Sputum culture	pending	negative

Which 4 findings are most urgent?

- B/P 168/90
- WBC 35,000 cells/mm³
- Lactate 4.5 mEq/L
- Ph 7.2
- PCO₂ 50 mm Hg
- PO₂ 75 mm Hg
- Respiratory rate 30 bpm
- Gram negative cocci
- Pulse oximeter 87%