

Guide

Preparing For The Next-Generation NCLEX® (NGN)

A "How-To" Step-By-Step Faculty Resource Manual



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References and Resources



Elsevier Products and Assessments
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Review of the NGN and Clinical Judgment



The Next Generation NCLEX (NGN)

New nursing licensure examinations for RN and LPN/LVN candidates (NCLEX-RN® and NCLEX-PN®) are expected to launch in April 2023.



Why Change the NCLEX

- Major changes in nursing and health care practice include:
 - Increased complexity of client care
 - · New innovations that prolong human life
 - Increased technologies to promote safe client care
 - Move to increased care in community-based settings, such as home, rehabilitation, and longterm care
- Research shows the decreased ability of new nursing graduates to make safe clinical decisions (https://www.ncsbn.org/11447.htm).
 - 50% of new graduates are involved in practice errors; 65% of these errors are related to poor clinical decision-making.
 - Employers are not satisfied with new graduates' ability to make safe clinical decisions.
- Clinical judgment is critically important for nursing practice. (https://www.ncsbn.org/2017_RN_KSA_final.pdf).
- New AACN Essentials integrate clinical judgment across the ten new domains (https://www.aacnnursing.org/
 Portals/42/AcademicNursing/pdf/Essentials-2021.pdf).
- LPNs/LVNs make clinical judgments within the scope of their practice (https://www.ncsbn.org/LPN_Practice_Analysis_FINAL.pdf).
- National League for Nursing identifies nursing judgment as an essential nursing practice competency (https://www.nln.org/education/nursing-education-competencies).





- The test format remains adaptive similar to the current NCLEX but will consist of less test items.
- Candidates will have between 70 and 135 scored test items.
- All candidates will have three unfolding clinical situations with six test items each to measure the ability to critically think to make safe clinical decisions (clinical judgments) during various phases of client care.
- · Some candidates will also have test items referred to as stand-alone items.
- Clinical situation information will be presented in medical record format, similar to the table below.
- · Questions in unfolding cases and stand-alone items will include the new NGN item types (discussed in Part II).
- NGN test items (described in more detail starting on pg. 43) will be scored differently than the current NCLEX test items: Partial credit using three scoring rules depending on test item type, including:
 - 0/1 scoring rule
 - +/- scoring rule
 - Rationale scoring rule

	in the second	
Laboratory Results	Result	Reference Range
Blood urea nitrogen (BUN)	35 mg/dL H (12.6 mmol/L)	10 – 20 mg/dL (3.6 - 7.1 mmol/L)
Creatinine (Cr)	1.8 mg/dL H (158.4 mcmol/L)	0.5 – 1.2 mg/dL (44 - 106 mcmol/L)

Example within Elsevier's learning and assessment products

Example of Client Information Presented in Medical Record Format

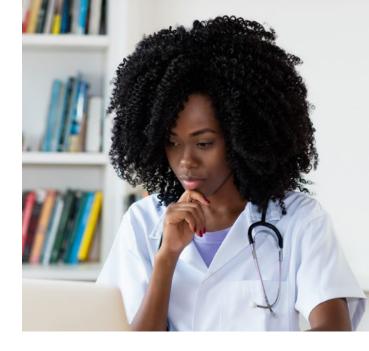
Nurses' Notes Orders History and Physical **Laboratory Results**

1915: 24-year-old client presents to the Urgent Care Center with report of abdominal discomfort and bloating since yesterday morning; no BM x 5 days. States doesn't eat much but exercises every day for at least an hour. Has not felt like exercising for two days due to fatigue, weakness, and lack of energy. Worries excessively about "getting fat" because the client is getting married next year and wants to fit into the wedding gown. Current medications include a multivitamin, lorazepam 3 mg orally twice a day, and furosemide 40 mg orally every morning to eliminate "water weight." Current weight 104 lb (47.2 kg); height 68 in (172.7 cm). Skin is very dry with light lanugo on face. T 96.2° F (35.7° C); HR 50 BPM; RR 18 bpm; BP 96/50 mmHg. SpO₂ 95% on RA; no dyspnea. States sometimes has shortness of breath when exercising.

Clinical Judgment: Definition And Action Model

NCSBN Definition of Clinical Judgment

Clinical judgment is defined as the observed outcome of critical thinking and decision-making. It is an *iterative* process that uses nursing knowledge to observe and assess presenting situations, identify a prioritized client concern, and generate the best possible evidence-based solutions to deliver safe client care (Dickison, et al., 2019).



NGN Review and Update: **CLINICAL JUDGMENT Clinical Judgment Cognitive Skills:** RECOGNIZE **PRIORITIZE ANALYZE GENERATE HYPOTHESES** ACTIONS **OUTCOMES** CUES SOLUTIONS What matters What could it Where do I What can I do? What will I do? Did it help? most? mean? start?

Clinical Judgment Action Model (Layer 3 of NCSBN Clinical Judgment Measurement Model [NCJMM]) https://www.ncsbn.org/14798.htm

Action (Practice) Model represents what nurses actually do in practice when making clinical decisions to ensure client safety.

New NGN test item types are based on the Action Model's six cognitive skills:

- Recognize Cues: What matters most?
- Analyze Cues: What could it mean?
- **Prioritize Hypotheses:** Where do I start?
- Generate Solutions: What can I do?
- Take Action: What will I do?
- Evaluate Outcomes: Did it help?

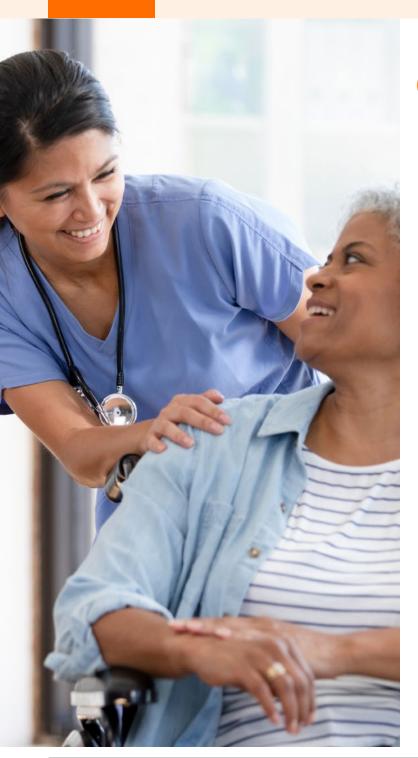


Preparing for the NGN: Steps for the RN and LPN/ LVN Rollout Plans

Semester 1: Focus On Clinical Judgment

Faculty need to prepare students for nursing practice and success on the NGN using a systematic plan. Phase I of this preparation describes how to introduce clinical judgment or continue to prepare students to use critical thinking and decision-making skills to make safe, appropriate clinical judgments for clients in a variety of health care settings.

> View the rollout plans with all the phases for RN and PN/VN programs



Introduce the Nursing Process (NP)

- Introduce the NP early in the first nursing semester as a problem-solving process used to manage *basic* client needs.
- The NCSBN currently defines the nursing process as part of the NCLEX-RN Test Plan as "a scientific, clinical reasoning approach to client care that includes assessment, analysis, planning, implementation, and evaluation" (NCSBN, 2018, p. 5).
- The NCSBN currently defines the nursing process as part of the NCLEX-PN Test Plan as "a scientific approach to client care that includes data collection, planning, implementation, and evaluation" (NCSBN, 2019, p.5).
- The NCLEX focuses on AAPIE, not ADPIE; NANDA-I
 nursing diagnosis is not tested on the current NCLEX or
 NGN because it is **not** a universal language used in health
 care or the nursing profession.
- In nursing practice and for NGN, students need to apply knowledge of pathophysiology to analyze client assessment findings (signs and symptoms) and associate them with common conditions (including diseases and disorders) seen in a variety of healthcare settings.
- Nurses need to notice subtle client changes in assessment findings and act promptly and appropriately to prevent Failure to Rescue.







Introduce Clinical Judgment

- After students learn how to use the nursing process in the first semester, introduce clinical judgment as a problem-solving thinking process, essential to managing today's complex client needs in a dynamic healthcare environment. Clinical judgment builds on the nursing process.
- Use the table below to help students transition from the nursing process to clinical judgment (Tanner and NCSBN model included for programs already using Tanner's model).

Comparison of the Nursing Process with Tanner's Clinical Judgment (CJ) Model and the NCSBN Action Model of Clinical Judgment

Nursing Process (AAPIE): Steps	Tanner's CJ Model: Phases	NCSBN Model of CJ: Thinking Skills/Processes
Assessment	Noticing	Recognize Cues
Analysis	Interpreting	Analyze Cues
Analysis	Interpreting	Prioritize Hypotheses
Planning	Responding	Generate Solutions
Implementation	Responding	Take Action
Evaluation	Reflecting	Evaluate Outcomes



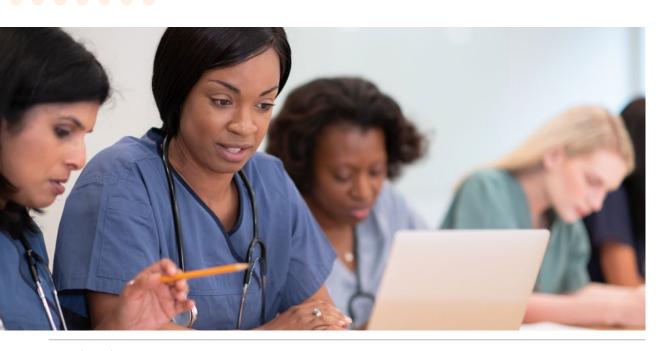


SEMESTER 1 Focus on Clinical Judgment

Help students learn NCSBN Clinical Judgment Cognitive Skills and how to use each of them, as summarized below.

NCSBN Clinical Judgment Cognitive Skills and Descriptions

NCSBN Clinical Judgment Cognitive Skill	Description of NCSBN Clinical Judgment Cognitive Skill
Recognize Cues: What matters most?	Determining what client findings are significant, most important, and of immediate concern to the nurse (relevant cues)
Analyze Cues: What could it mean?	Organizing and linking the relevant cues with client conditions/problems
Prioritize Hypotheses: Where do I start?	Ranking client conditions/problems according to urgency, complexity, and time
Generate Solutions: What can I do?	Identifying interventions that meet desired outcomes for the client; can include collecting additional assessment data
Take Action: What will I do?	Implementing the solution(s) that are most appropriate and address the client's priority conditions/problems
Evaluate Outcomes: Did it help?	Comparing actual client outcomes with desired client outcomes to determine effectiveness of care









Decrease Curricular Content Saturation

- Additive, saturated curriculum has been identified as an issue in pre-licensure nursing education for over 20 years (Giddens & Brady, 2007).
- Curricular content is not always aligned with practice needs, causing a theory-practice gap (Repsha, et al., 2020); faculty often rely solely on textbooks for content to be included in the curriculum.
- Faculty feel the need to lecture in class or provide voiceover slide presentations to "cover" mass amounts of content that are often redundant and duplicative across the curriculum.
- In a content-saturated curriculum, students tend to memorize knowledge for the short-term (often to pass the test), also known as super icial learning.
- Students need to retrieve and use essential knowledge (deep learning) to make safe, appropriate clinical judgments. Retrieval of knowledge requires practice and clinical judgment requires thinking; both processes take time.
- Therefore, nurse educators need to decrease content saturation to "need to know" for entry-level generalist nursing practice.
- Here are some ways to reduce curricular content:
 - Review national health data from sources such as CDC, NIH, and Healthy People 2030 to identify the most common health problems and issues.
 - Review state and local data from health departments to identify the most common health problems and issues.
 - Ask for input from community stakeholders to identify key health care issues and trends.
 - Map the current curriculum using the NCLEX Test
 Plan to help make revisions that decrease content.
 - Consider exploring a concept-based model for nursing curriculum to focus on nursing concepts with exemplars.

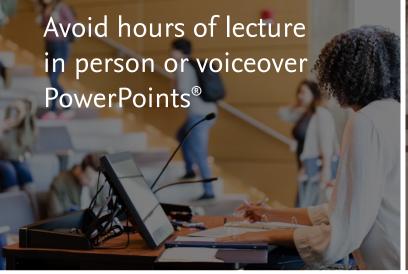




Provide Time for Student Thinking and Processing

SEMESTER 1

- Recall that clinical judgment requires using "nursing knowledge to observe and assess presenting situations, identify a prioritized client concern, and generate the best possible evidence-based solutions in order to deliver safe client care (Dickison, 2019)."
- Students need to learn how to retrieve and use essential knowledge (deep learning) to make safe, appropriate clinical judgments. Remember that knowledge retrieval requires practice and clinical judgment requires thinking; both processes take time.
- Clinical judgment requires THINKING about how to use knowledge; therefore:
 - Avoid hours of lecture in person or voiceover PowerPoints®. Instead of lecture/slides only, use a flipped or scrambled classroom (or online) approach to allow more time for active synchronous learning activities. Scrambled classroom provides short lecturettes or mini lectures of five to ten minutes interspersed with student thinking activities to process information.
 - Provide multiple opportunities for thinking activities in all learning environments: class, online, skills lab, simulation, clinical agencies.
 - Remember that nurse educators are accountable for facilitating learning; students are accountable for the learning, including reviewing information from previous courses as needed.







myevolve.us/NGNCLEX

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Use Active Learning Activities

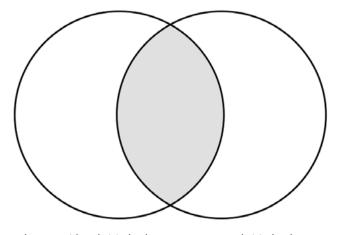
- Focus on learning (what the student does) rather than teaching (what the nurse educator does) to meet students' needs for entry-level professional practice.
- Use well-planned "thinking" activities to engage students in all learning environments.
- Consider the multigenerational and multicultural needs of diverse students to plan meaningful and engaging learning activities. Students prefer varying types of activities based on their primary learning styles.
- Provide opportunities for individual, pair, and group learning activities to help meet the needs of diverse students.



- Ensure purposeful planning to either help students retrieve or learn new knowledge or use knowledge to make safe, appropriate clinical judgments in all learning environments.
- Retrieving knowledge requires practice in numerous contexts. Use these suggestions for active learning activities that help students gain, reinforce, or retrieve knowledge:
 - Gaming, such as Jeopardy, Who Wants to be a Millionaire? (Note: Limit these activities to less than 30 minutes.)
 - Apps, such as Kahoot! and Socrative
 - Admit or Exit Ticket; some examples include:
 - Pre-class/end-of-class quiz (previous knowledge or reading)
 - Pre-class/end-of-class worksheet (such as anatomy and physiology, human developmental stages, and nursing content from earlier courses)

- Pre-class/end-of-class review with things like Muddiest Points/Questions about reading or class discussion.
- Think-Pair-Share activities in which each student
 Thinks about the answer to a posed question by
 faculty and then Pairs with another student to Share
 and compare answers. This activity helps students
 validate knowledge they know and be reminded of
 what knowledge they may not have retained.
- Directed Reading (aka Guided Reading) requires faculty to provide a list of questions for learners to answer while reading and to help guide and focus their reading.
- Use these suggestions for active learning activities that help students use knowledge to make clinical decisions (make safe, appropriate clinical judgments):
 - Venn Diagram helps students compare and contrast (a critical thinking skill) using overlapping circles. Assessment findings and nursing interventions are examples of client care that can be compared and contrasted. In the example below, students identify those client assessment findings of RA and OA that are similar and write them in the gray-toned area. Those findings that are different between the two types of arthritis are written in the white spaces within the circles.

COMMON ASSESSMENT FINDINGS OF LATE-STAGE RA VS. OA



Rheumatoid Arthritis (RA)

Osteoarthritis (OA)

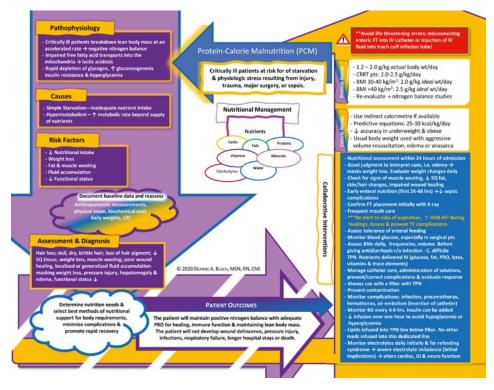


SEMESTER 1

Use Active Learning Activities, cont.

Use these suggestions for active learning activities that help students use knowledge to make clinical decisions (make safe, appropriate clinical judgments):

- Concept Mapping can be used as part of class or online activities in pairs or groups to develop a plan of care or explore a concept. This activity helps students think about connections between and among aspects of the care plan or concept.
- Structured Controversy is a thinking activity used for ethical issues in which each student in a pair supports a "pro" and "con" side of the dilemma and should not use their partner's views. This activity stimulates critical thinking, one type of thinking needed to make safe, appropriate clinical judgments.



From Urden, L.D., Stacy, K.M., Lough, M.E. (2022). Critical care nursing: Diagnosis and management (9th ed.). St. Louis: Elsevier.

- Use Send-a-Problem learning activity to highlight the most important knowledge needed to make clinical judgments and have students practice NCLEX-style test writing. Students usually work in groups to develop practice test items in NCLEX-format and then "send" their developed questions to another group to answer. This process continues until the entire class has reviewed and answered all
- Have students respond to case studies in all learning environments, including these four types:

Case method:

Short clinical scenario (one to two sentences) that provides only the essential data; one or two related questions for beginning students to start the thinking process.

Single episode (stand-alone) case:

One clinical scenario (one to two paragraphs) that requires thinking to make clinical judgment, which includes one or more highlevel thinking questions (open-ended or structured).

Unfolding (continuing or evolving) case study:

Initial comprehensive clinical scenario (one to two paragraphs) that changes over time (several phases of care) as the client's condition changes; requires analysis and clinical reasoning to answer multiple high-level thinking questions for each phase of care demonstrating safe, appropriate clinical judgments. Questions may be aligned with the NCSBN's six clinical judgment cognitive skills.

Reverse case study:

Students develop an unfolding case study with questions/answers after being given a medical diagnosis and drug profile.





Incorporate Thinking into the Skills Laboratory

- Typical "check-offs" of psychomotor skills do not ensure learner competence. Return demonstrations represent the lowest level of the psychomotor learning domain taxonomy (imitation).
- Nursing education is moving towards being more competency-based with a focus on learner competency assessments. For example, the American Association of Colleges of Nursing (AACN) developed new Essentials which delineate entry-level (nurse generalist) and advanced practice competencies within ten domains. Clinical judgment is a core concept that is integrated throughout these domains.
- Requirements for any competency assessment, such as assessing the ability to perform psychomotor skills, requires that:
 - Each competency must be observable and measurable.
 - Each competency must be evaluated over time and on multiple occasions.
 - Each competency must be evaluated in multiple contexts.
 - Each competency should integrate knowledge, skills, and attitudes with critical thinking while providing care.

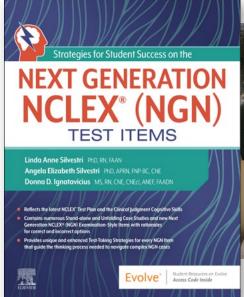
- For competency assessment, initially have students practice skills in lab. Consider self-reflection and peer review as assessment options instead of nurse educator "check-offs" for a pass/fail assessment.
- Manipulate the clinical situation to require students to use critical thinking to perform one or more skills safely and effectively. Evaluate skill performance again in various clinical settings and contexts.

Increase High-Fidelity Simulation Experiences

- High-fidelity simulation experiences allow students to use cognitive (thinking) skills to make clinical judgments as part of nursing care.
- Use Lasater's Clinical Judgment Rubric or another tool to measure thinking skills during simulation to help prepare students for professional practice and the NGN.
- Increase the use of simulation for students to gain practice and confidence in clinical judgment skills because clinical experiences are often limited.
- Include reflection on learner ability to make safe, appropriate clinical judgments as part of debriefing.



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🖒 Part II.



Utilize Curricular Resources that Help Prepare Students to Make Appropriate Clinical Judgments and Be Ready for the NGN

- · Select and adopt textbooks that focus on clinical judgment.
- Adopt available workbooks and textbook ancillaries to help students practice and develop competence in the six cognitive skills needed to make appropriate clinical judgments (See Resources List in Part III).
- Adopt NGN student success resources such as <u>Strategies for Student Success</u> on the Next Generation NCLEX (NGN) Test Items by Silvestri, Silvestri, and Ignatavicius.

Attend Professional Development Workshops and Conferences on Clinical Judgment and the NGN

- Recognize that the official and most reliable source of information about the NGN is the National Council of State Boards of Nursing (NCSBN).
- Attend annual NCLEX conference held in late September; most speakers are NCSBN staff members.
- Attend state conferences sponsored by boards of nursing about the NGN and how to prepare students for the NGN.
- For other workshops and webinars, be sure that speaker information is reliable and consistent with the NCSBN (see www.ncsbn.org).

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Preparing for the NGN: Steps for the RN and LPN/ LVN Rollout Plans

Semester 2: Introduction To The New NGN Test Items

Semester 2 of the rollout plan focuses on introducing the new NGN test items to students and providing practice with answering these item types. Faculty need to help students understand what cognitive skills will be measured in a test item and promote the necessary thinking processes required.

> View the rollout plans with all the phases for RN and PN/VN programs

NGN Case Studies and Test Items Overview

- The case study is the foundation for measuring knowledge and clinical judgment using NGN item types.
- The new NGN test items will be embedded in case studies and based on the six clinical judgment cognitive skills (described in Part I). Case studies present a "real-world" clinical situation.
- There are two types of cases: unfolding cases and standalone items. Unfolding cases will be accompanied by six test items; each item will measure one of the six cognitive skills. A stand-alone item includes a short clinical scenario and an individual item that is not part of an unfolding case study; there are two stand-alone item types, the bow-tie and the trend.
- There are 12 NGN item types used for the unfolding case items and the trend item as shown on page 24.



Curriculum Approach

- Semester 2 is the time to begin introducing cases and NGN item types to students. This is *practice time* and not the time *yet* to be putting these NGN items on course exams for grading.
- In each course, start working with the students on unfolding case studies and the accompanying six items that address the six cognitive skills.
- Use cases that connect to content being taught in nursing courses. These cases should be used in all settings: class, clinical, lab, online.
- Faculty can write their own cases to use for practice, or they can use cases that have been developed by experts.
 See Part III, the References and Resources section for texts that provide practice cases and NGN items.
- When introducing NGN items, start with item types students are familiar with and will be more comfortable with, such as multiple choice and multiple response in a Select All that Apply format and a Select N format.
- Help students understand how each cognitive skill is being measured.
- Review the rationales for the correct and incorrect answers and engage the students in this review; use Socratic questioning — Why? and What if? — challenge their thinking processes!
- Help students design test-taking strategies that guide logical thinking processes for answering items correctly.
- Close to the end of the semester, around three to four weeks before the semester ends, introduce the *stand-alone clinical situations* both the *bow-tie and trend*.







An Unfolding Case

- The unfolding case study starts by presenting a "realworld" clinical situation and some client data that will most likely be in a medical record format.
- The medical record format will include tabs specifying for example, Health History, Nurses Notes, Physician's Orders, Laboratory Profile (see example on page 19).
- The clinical situation in the unfolding case study will include phases over time as the client's situation changes; this could be over minutes, hours, or days.
- Six questions will accompany the case study, each representing one of the six cognitive skills.
- Every test-taker will receive three unfolding case studies, each with six items, for a total of 18 items with these three unfolding cases.



A Stand-Alone Item

- The NCSBN currently identifies two types of stand-alone test items, the bow-tie and the trend.
- Some test-takers those who take more than the minimum number of items on the NCLEX — will receive approximately six to seven stand-alone cases, either the bow-tie type or trend, or a mix of both.
- The bow-tie item is unique and as it is titled, looks like a bow-tie. This item type can measure up to all six cognitive skills. It's important to remember that the clinical scenario in a bow-tie item includes client data at one point in time.
- The **trend item** begins with a client situation that includes assessment information. This information includes multiple data points over time in the clinical situation rather than one point in time and the test-taker needs to review the information looking for trends. The trend item measures one or more than one cognitive skill and any of the NGN item types (except bow-tie) can be used for a trend item.





Stand-Alone Items



Туре	Clinical Situation	Phases	Items	Cognitive Skill
Unfolding	Situation and client data; likely a medical record format	Over time: minutes, hours, or days	6	Each item measures one of the six clinical skills
Stand-alone Bow-tie	Situation and client data; could be in a medical record format	One point in time	1	Can measure up to all six clinical skills
Stand-alone Trend	Situation and client data; likely a medical record format	Multiple data points over time	1	Measures one or more than one clinical skill

SEMESTER 2



Writing a Case Study

- For either a stand-alone or unfolding case study, faculty can think about clients they have cared for in their own practice or have assigned to students, clinical situations they have read about, or common errors or problems that they know occur in health care; these sources will help create the "story."
- The clinical scenario needs to be one that a new nursing graduate would likely encounter.

Stand-alone item

- · Presents a client scenario with an adequate amount of data that represents one point in time (bow-tie item) or multiple data points in time (trend item).
- The data in this type of client situation do not need to be as comprehensive as the data in an unfolding case type.
- See page 37 for an example bow-tie item and page 38 for an example trend item.

Unfolding case

- Presents a client scenario that changes over time through multiple phases of care.
- The data are more comprehensive than in a stand-alone item as the "story" unfolds.
- All six cognitive skills need to be measured using any of the appropriate NGN test item formats.
- Provides initial information about a client scenario and then progresses to unfold with the addition of new information about the client's condition or status.
- · The case study can unfold to present a scenario in any environment such as the emergency department, hospital unit, clinic, community setting, home.
- The client scenario can present information in which the client's condition improves, remains stable, or declines, such as with the development of a complication; some case studies may encompass all these potential situations.
- If laboratory results are included in a case, place in a table with columns that indicate the name of the test, the result, and the reference range. If the result is abnormal, indicate this by either an H or a L bolded and red (see example trend item on the next page).
- · An unfolding case includes more than one phase of care for one client; up to four phases may be needed depending on the complexity of the case study.
- There may be only one test item for each phase or more than one.





PHASE 1

- Includes an introduction to the client and three to five sentences to describe the client's clinical situation.
- Place a time for the data if appropriate.
- Data provided is most likely presented in a medical record format.
- Includes adequate client data anticipating that following Phase 1, two NGN test questions could be created:
 - NGN Item #1 will measure the cognitive skill:

Recognize Cues

NGN Item #2 will measure the cognitive skill:

Analyze Cues

PHASE 2

- Describes what happened to the client after Phase 1.
- Place a time in minutes, hours, or days at the data you will present for Phase 2.
- The time-lapse between the client's introduction or Phase 1 of care and this next phase of care (Phase 2) may be minutes, hours, or days, depending on how the case is created.
- The data can be presented in the form of a nurse's note, assessment data, or medical record format.
- Include adequate data anticipating that following Phase 2, two NGN test questions could be created:
 - NGN Item #3 will measure the cognitive skill:

Prioritize Hypotheses

NGN Item #4 will measure the cognitive skill:

Generate Solutions

PHASE 3

- Describes what happened to the client after Phase 2.
- The time-lapse between Phase 2 of care and Phase 3 of care may be minutes, hours, or days.
- Place a time in minutes, hours, or days at the data that you will present for Phase 3.
- The data can be presented in the form of a nurse's note, assessment data, or medical record format.
- Include adequate data anticipating that following Phase 3, two NGN test questions could be created:
 - NGN Item #5 will measure the cognitive skill:

Take Action

NGN Item #6 will measure the cognitive skill:

Evaluate Outcomes

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Example: Unfolding Case

Phase 1

1900: A 55-year-old client returns from the PACU after a left total knee arthroplasty. During surgery the client had epidural and regional anesthesia, and is currently receiving gabapentin, cyclobenzaprine, and IV acetaminophen for surgical pain. The client has a long history of osteoarthritis (OA) in both knees, ankles, and feet due to obesity, family history, and a job which requires long periods of standing. The nurse documents the following assessment findings in the Nurses' Notes.

History and Physical

Nurses' Notes

Orders

Laboratory Results

1915: VS: T 99.2° F (37.3° C); HR 109 BPM; RR 20 bpm; BP 148/92 mmHg. SpO₂ 95% on RA; left knee pain of 6/10 on a 0-10 pain intensity scale

Drowsy but arouses easily; Reports "frequent waves of nausea"

Reports that legs and feet feel "very heavy and numb"

Small amount of serosanguinous drainage present on surgical dressing



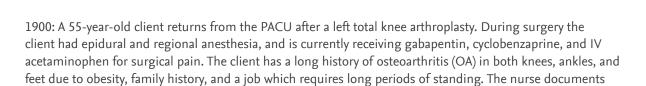
Place NGN Item #1 here to measure the cognitive skill: Recognize Cues





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History and Physical

Nurses' Notes

Orders

Laboratory Results

1915: VS: T 99.2° F (37.3° C); HR 109 BPM; RR 20 bpm; BP 148/92 mmHg. SpO₂ 95% on RA; left knee pain of 6/10 on a 0-10 pain intensity scale

Drowsy but arouses easily; Reports "frequent waves of nausea"

Reports that legs and feet feel "very heavy and numb"

the following assessment findings in the Nurses' Notes.

Small amount of serosanguinous drainage present on surgical dressing



Place NGN Item #2 here to measure the cognitive skill: Analyze Cues





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Example: Unfolding Case

Phase 2

1300: A 55-year-old client had a left total knee arthroplasty yesterday due to uncontrolled pain from osteoarthritis (OA) caused by obesity, family history, and a job which requires long periods of standing. An hour after receiving an analgesic, the client states that the pain is 3/10 pain (on a 0-10 pain intensity scale) in the surgical knee when getting out of bed with assistance. The client also states "I would not have had this surgery if I knew I would be is so much pain."



Place NGN Item #3 here to measure the cognitive skill: Prioritize Hypotheses

1300: A 55-year old client had a left total knee arthroplasty yesterday due to uncontrolled pain from osteoarthritis (OA) caused by obesity, family history, and a job which requires long periods of standing. The client tells the nurse that "I would not have had this surgery if I knew I would be in so much pain," and has several questions about care.



Place NGN Item #4 here to measure the cognitive skill: Generate Solutions





SEMESTER 2



Example: Unfolding Case

Phase 3

1100: A 55-year-old client had a left total knee arthroplasty two days ago. The nurse assesses the client and plans health teaching for the client in preparation for discharge.



Place NGN Item #5 here to measure the cognitive skill: Take Action

1100: A 55-year-old client had a left total knee arthroplasty two days ago. The nurse assesses the client and plans health teaching for the client in preparation for discharge.



Place NGN Item #6 here to measure the cognitive skill: Evaluate Outcomes





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The NGN Item Types at a Glance

- There are 12 item types that can used in unfolding case studies and in the stand-alone trend item.
- These can be grouped into categories for organization purposes.

☆ Highlight	Drag & Drop	↓ Drop Down	··· Matrix/Grid	≅ Extended Multiple Response
Highlight in Text	Drag & Drop Cloze	Drop Down Cloze	Matrix Multiple Response	Multiple Response Select All That Apply
Highlight in Table	Drag & Drop Rationale	Drop Down Rationale Drop Down In Table	Matrix Multiple Choice	Multiple Response Select N
				Multiple Response Grouping





Writing the NGN Item Types

- Think about the learning outcome to be measured.
- Think about the cognitive skill to be measured and consider item types that would optimally measure the cognitive skill.
- Select an item type to create the question.
- Each item type has unique characteristics and criteria that must be met for the type to be effective in its measurement; follow these criteria in developing the item.







NGN Item Types

Туре	Criteria	Cognitive Skill(s) Optimally Measured*			
☆ Highlight					
Highlight In Text	Includes a paragraph of information.	Recognize Cues			
	Test-taker selects (highlights) parts of the text based on what the question is asking.	Evaluate Outcomes			
	There can be a maximum of ten options.				
Highlight In Table	Includes a table of information.	Recognize Cues			
	Test-taker selects (highlights) parts of the text based on what the question is asking.	Evaluate Outcomes			
	There can be a maximum of ten options.				
	Includes two columns (one being a header) and up to five rows.				
☑ Drag & Drop					
Drag & Drop Cloze	Includes a minimum of four options (known as tokens) and a maximum of ten. There can be one or more response targets (target is where the token is dragged to).	Recognize Cues			
		Analyze Cues			
		Prioritize Hypotheses			
		Generate Solutions			
	There is a minimum of one sentence	Take Action			
	with one target per sentence and a maximum of five sentences with one target per sentence.	Evaluate Outcomes			
Drag & Drop Rationale	Includes one sentence with one cause	Recognize Cues			
	and one effect OR one sentence with one cause and two effects.	Analyze Cues			
	Sentence can be a single dyad (one	Prioritize Hypotheses			
	sentence with two targets) OR a single triad (one sentence with three targets).	Generate Solutions			
	There can be three to five tokens for each	Take Action			
	drag & drop target.	Evaluate Outcomes			



NGN Item Types, cont.

Туре	Criteria	Cognitive Skill(s) Optimally Measured*
↓ Drop Down		
Drop Down Cloze	Includes one or two sentences of	Recognize Cues
	information with one or more drop- down options from which to complete	Analyze Cues
	the sentence(s).	Prioritize Hypotheses
	There can be three to five options in each drop-down.	Generate Solutions
	There is a minimum of one sentence	Take Action
	with one drop-down per sentence and a maximum of five sentences with one drop-down per sentence.	Evaluate Outcomes
Drop Down Rationale	Includes one sentence with one cause	Recognize Cues
	and one effect OR one sentence with one cause and two effects.	Analyze Cues
	There can be three to five options in each drop-down.	Prioritize Hypotheses
		Generate Solutions
		Take Action
		Evaluate Outcomes
Drop Down In Table	Includes a table of information with drop	Recognize Cues
	down options in different parts of the table.	Analyze Cues
	There can be a minimum of three	Prioritize Hypotheses
	columns and three rows and a maximum of five columns and four rows.	Generate Solutions
	One column is a header column.	Take Action
	There is one drop-down per row.	Evaluate Outcomes

SEMESTER 2





NGN Item Types, cont.

Туре	Criteria	Cognitive Skill(s) Optimally Measured*		
••• Matrix/Grid				
Matrix Multiple Response	Includes response columns and each response column could have multiple correct responses. There can be between two and ten columns and four to seven rows. Each column must have one response option selected but one or more responses per column can be selected.	Recognize Cues Analyze Cues Generate Solutions Take Action Evaluate Outcomes		
Matrix Multiple Choice	Includes at least four rows and no more than ten rows. There can be two options/columns or three options/columns. Allows the test-taker to select one answer option per row.	Recognize Cues Analyze Cues Generate Solutions Take Action Evaluate Outcomes		
≡ Extended Multiple Response		1		
Multiple Response Select All That Apply	Allows the test-taker to select one or more answer options. There can be only one correct response or multiple correct responses. There needs to be at least five options with no more than ten options, but all ten options could be correct.	Recognize Cues Analyze Cues Prioritize Hypotheses Generate Solutions Take Action Evaluate Outcomes		
Multiple Response Select N	The question needs to tell the test-taker the number of items (N) that can be selected. There needs to be at least five options with no more than ten options	Recognize Cues Analyze Cues Prioritize Hypotheses Generate Solutions Take Action Evaluate Outcomes		



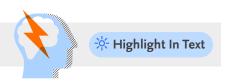


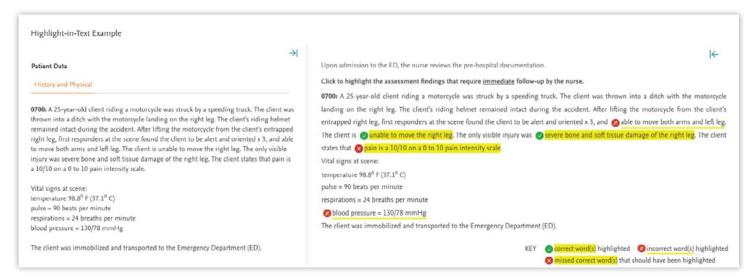
NGN Item Types, cont.

Туре	Criteria	Cognitive Skill(s) Optimally Measured*	
≡ Extended Multiple Response			
Multiple Response Grouping	Options are presented in a table and the table can have a minimum of two groupings and a maximum of five groupings. Each grouping has a minimum of two options and a maximum of four options and the number of options for each grouping needs to be the same. The test-taker needs to select at least one option from each grouping.	Recognize Cues Analyze Cues Prioritize Hypotheses Generate Solutions Take Action Evaluate Outcomes	
Stand-Alone Items	, , , , , , , , , , , , , , , , , , ,		
Bow-tie	Visually, the item looks like a bow-tie. There are five options in the left side and five options in the right side of the bow-tie (wells), and four options in the middle well. Items address up to all of the cognitive skills in the one item.	Recognize Cues Analyze Cues Prioritize Hypotheses Generate Solutions Take Action Evaluate Outcomes	
Trend	Presents information over time in a medical record format or flow sheet format requiring the test-taker to review information over time. Item addresses multiple cognitive skills in the one item. Can feature any NGN item type (except the bow-tie).	Recognize Cues Analyze Cues Prioritize Hypotheses Generate Solutions Take Action Evaluate Outcomes	

^{*}The cognitive skills listed for each item type are those that can be optimally measured. Access the NCSBN website at www.ncsbn.org frequently for the latest updates on item types and best measurement of cognitive skills.

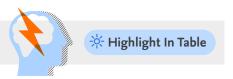
Examples: Highlight NGN Items

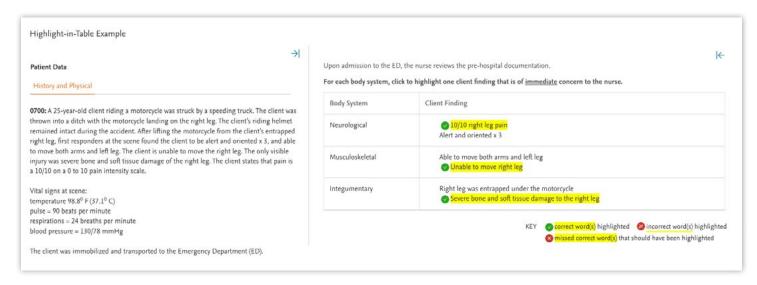




Example of Highlight In Text in Elsevier's learning and assessment products

Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to





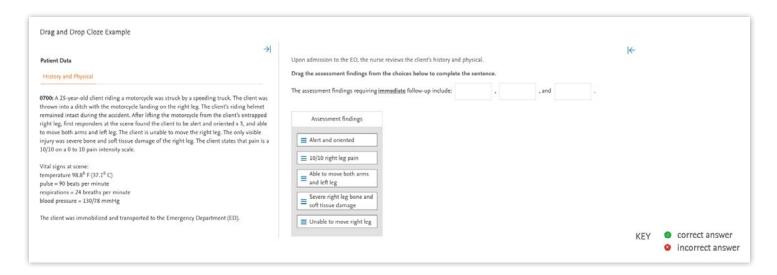
Example of Highlight In Table in Elsevier's learning and assessment products

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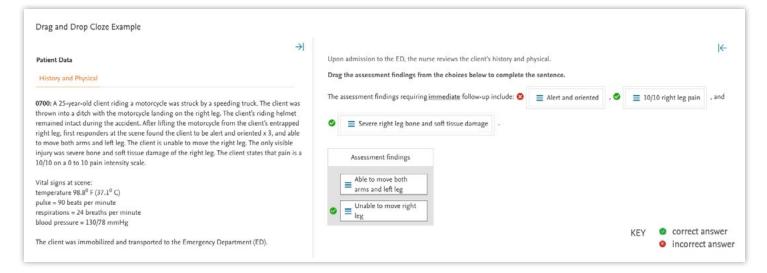
Introduction To The New

Examples: Drag & Drop NGN Items





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Examples of Drag & Drop Cloze in Elsevier's learning and assessment products

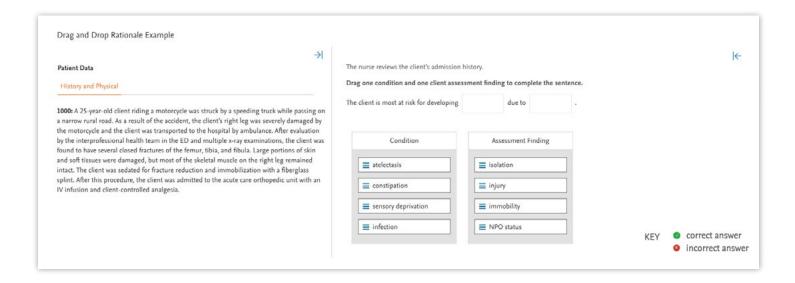
Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to learn more.



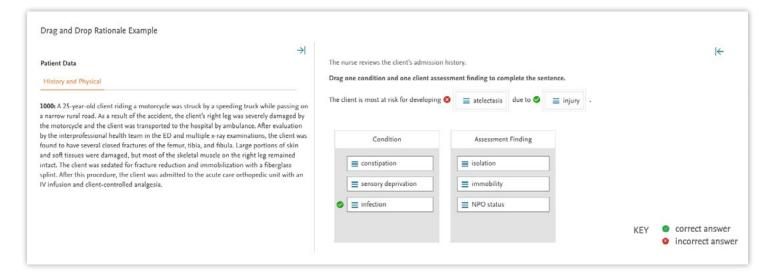
Introduction To The New NGN Test Items

Examples: Drag & Drop NGN Items





SEMESTER 2



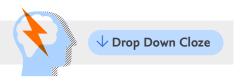
Examples of Drag & Drop Rationale in Elsevier's learning and assessment products

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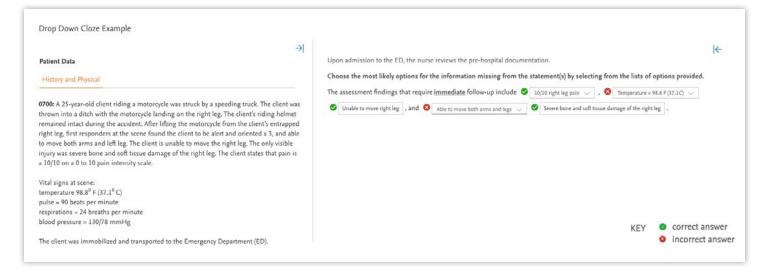




Examples: Drop Down NGN Items





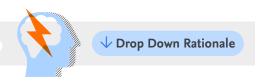


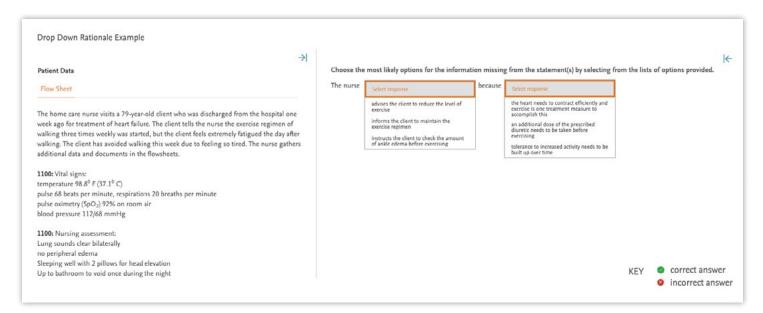
Examples of Drop Down Cloze in Elsevier's learning and assessment products

Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to learn more.



Examples: Drop Down NGN Items





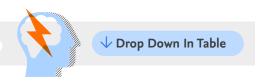


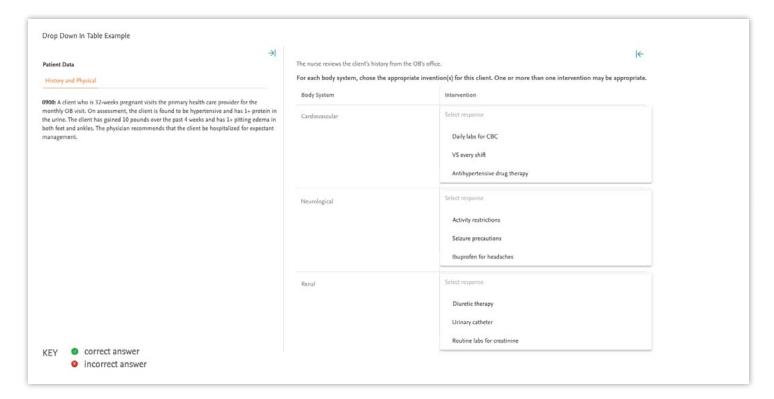
Examples of Drop Down Rationale in Elsevier's learning and assessment products

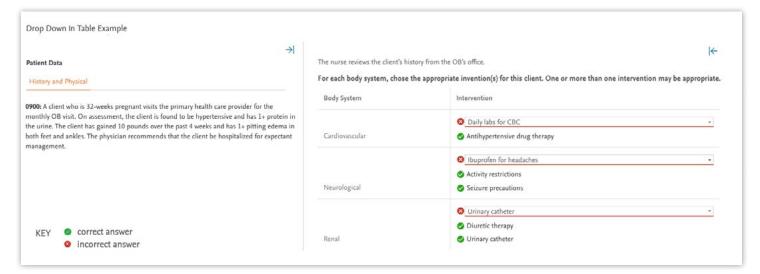
Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to learn more.

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Examples: Drop Down NGN Items







Examples of Drop Down In Table in Elsevier's learning and assessment products

Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to learn more.

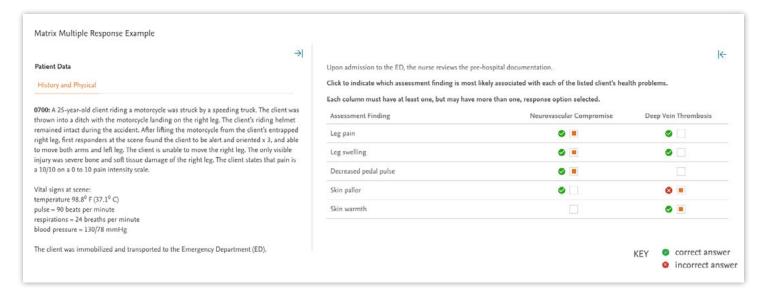


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SEMESTER 2

Examples: Matrix/Grid NGN Items

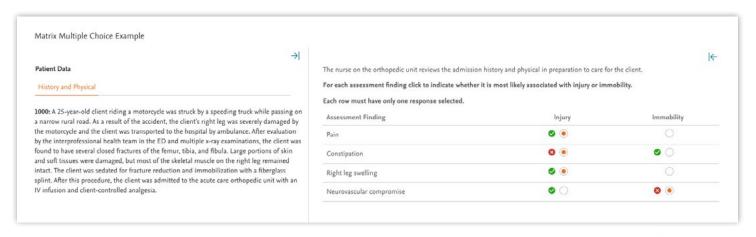




Examples of Matrix Multiple Response in Elsevier's learning and assessment products

Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to learn more.





Examples of Matrix Multiple Choice in Elsevier's learning and assessment products

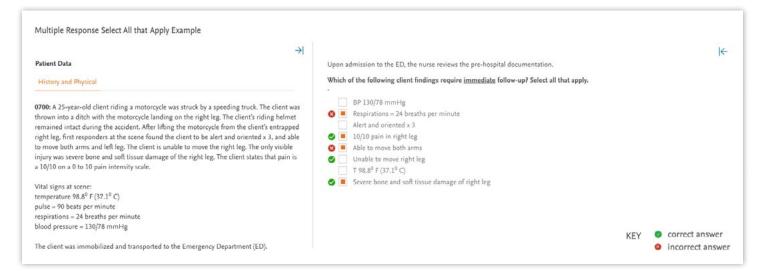
Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to learn more.

o correct answer incorrect answer

Examples: Extended Multiple Response NGN Items



≡ Multiple Response Select All That Apply



Examples of Multiple Response Select All That Apply in Elsevier's learning and assessment products

Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to learn more.



≡ Multiple Response Select N

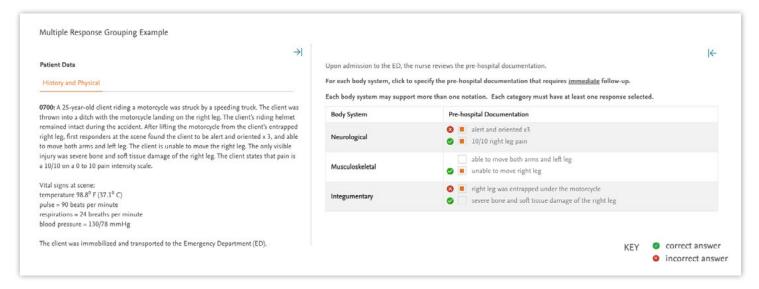


Examples of Multiple Response Select N in Elsevier's learning and assessment products

Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to learn more.

Examples: Extended Multiple Response NGN Items





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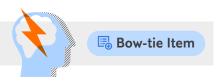
Examples of Multiple Response Grouping in Elsevier's learning and assessment products

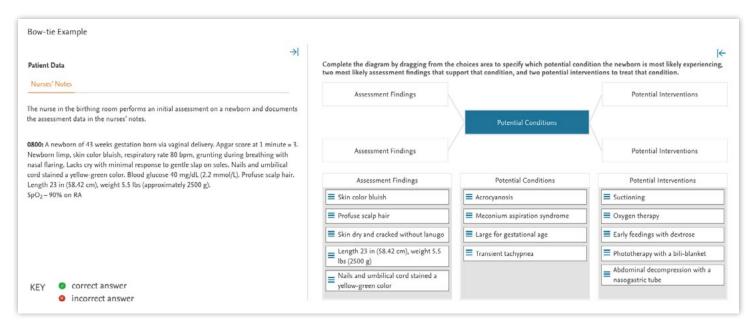
Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to learn more.

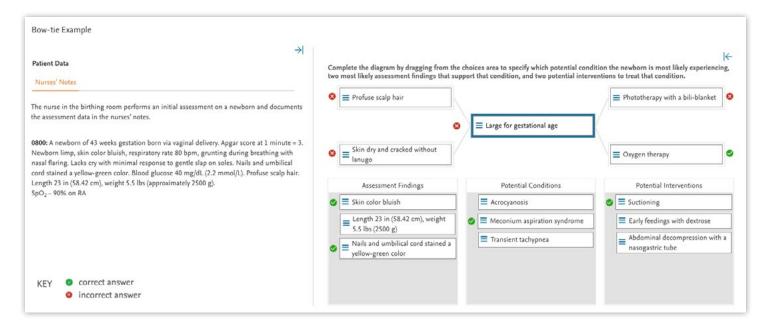




Examples: Stand-Alone Items







Examples of Bow-tie Item in Elsevier's learning and assessment products.

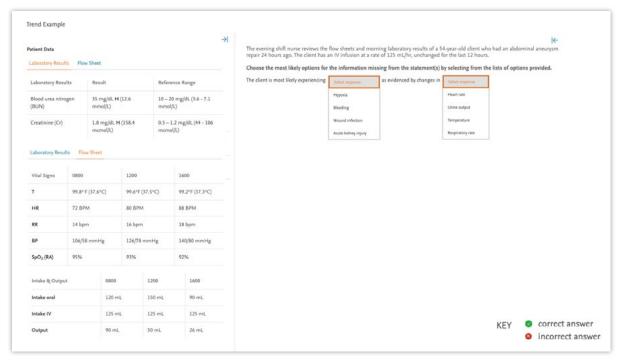
Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to learn more.

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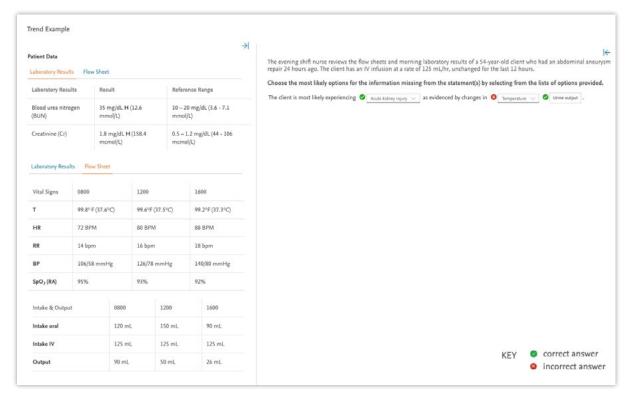
Examples: Stand-Alone Items





Examples of Trend Item in Elsevier's learning and assessment products.

Question delivery options may appear differently for this item working within Elsevier digital offerings with NGN item types. Contact your Elsevier Education consultant to learn more.





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Test-Taking Strategies for Student Success

- The complexity of client care in healthcare practice has increased, requiring critical thinking and reasoning in the decisionmaking process to make clinical judgments.
- The new test items on the NCLEX are embedded in case studies and represent real-world scenarios that measure clinical judgment, which requires deeper thinking.
- Current NCLEX test items are viewed as knowledge items; students have been guided to use knowledge and certain test-taking strategies to answer these current test items.
- For current items, students focus only on the information in a test question so that they do not "read into the question"; this strategy is not one that promotes the thinking process necessary to answer NGN items.
- With NGN items, students need to think about the complex clinical scenario presented and focus on more than what is presented to make clinical judgments.
- Refer to the Test-Taking Strategies for Knowledge and NGN Items table below that differentiates between current items and NGN items.

Test-Taking Strategies for Current Stand-alone (Knowledge) and CJ NGN Items

Test-Taking Strategy	Current "Stand-alone" Items	CJ Test Items
Knowledge	Requires knowledge but superficial learning may be sufficient	Requires knowledge and deep learning
Clinical Judgment	Requires some clinical judgment skills but for a single focus of content	Requires clinical judgment and thinking about how to use knowledge in complex situations
Prioritizing Client Needs	Requires the skill of prioritizing but for a single situation; use of strategies such as airway, breathing and circulation (ABCs), Maslow's Hierarchy of Needs, and the nursing process with assessment being the first step are usually helpful	Requires the skill of prioritizing but for multiple thinking situations occurring at one time; strategies used for knowledge questions are not helpful in these complex situations because of the multiple situations occurring with the client
Evidence-Based Solutions	Requires using knowledge about evidence-based practice but for a single focus of content	Requires using knowledge about evidence-based practice but also connections need to be made between many concurrent situations that are occurring with the client



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Test-Taking Strategies for NGN Test Items

- Both unfolding cases and stand-alone items present complex client scenarios that require thinking and making connections about multiple situations occurring at one time.
- Students need a structured method to link knowledge and logical thinking to make connections and clinical judgments.
- Although multiple situations may be occurring at one time requiring thinking and making connections, concepts in the test item can be examined with a structured approach that guide logical thinking processes for answering items correctly.
- Helping students create and use a structured and logical thinking process as a test-taking strategy is essential to answer NGN items correctly.
- Constructing tables that examine the concepts of an item are a helpful test-taking strategy for NGN items.
- See the box below for an example of a testtaking strategy for an NGN item

Example NGN Item and Test-Taking Strategy

1200: A 68-year-old client presents to the emergency department (ED) reporting numbness and tingling of the left side of the face and the left arm that started 2 hours ago. The ED nurse performs a focused assessment and notes focal neurological deficits on the left side of the body. The ED physician orders a stat computed tomography (CT) scan of the brain, which confirms ischemic stroke affecting the middle cerebral artery. The ED nurse assesses vital signs. The client has no known past medical history and does not take any medications on a routine basis.

History and Physical

Nurses' Notes

Flow Sheet

T 97.5° F (36.4° C), HR 98 BPM, RR 20 bpm, BP 152/84mmHg, SpO₂ 96% RA

Which of the following actions would the ED nurse plan for the client? **Select all that apply.**

- Complete a swallow screen
- Allow thickened liquids only
- Administer fibrinolytic therapy
- Obtain an electronic infusion pump
- Perform a cardiovascular assessment
- O Insert an indwelling urinary catheter
- O Administer IV antihypertensive medication
- Perform frequent neurological assessments





Example NGN Item and Test-Taking Strategy, cont.

Rationale:

Part II.

An ischemic stroke is caused by a blockage of a cerebral or carotid artery. Multiple interventions are needed for the client experiencing a stroke in order to ensure safety. The client with an ischemic stroke may experience impaired swallowing as a complication of the stroke. The nurse needs to complete a swallow screen per facility protocol, to determine any impairments with swallowing. This action will prevent complications such as pneumonia from aspiration. The nurse needs to keep the client NPO (nothing by mouth) until the appropriate diagnostic testing is completed, such as video fluoroscopic swallow study usually performed by a speech-language pathologist; therefore, thickened liquids would not be given at this time until this work-up has been done. The nurse would anticipate a prescription to administer fibrinolytic therapy. This is the standard of practice for clients experiencing ischemic strokes that meet specified criteria. Exclusionary criteria include greater than 4.5 hours from onset of symptoms, older than 80 years, anticoagulant use, ischemic injury greater than onethird of the brain, significant neurological impairment, and history of both stroke and diabetes mellitus. This client does not meet any of these exclusionary criteria and therefore would be considered a candidate for fibrinolytic therapy. To safely administer this therapy, the nurse needs to use an electronic infusion pump and double check the dose with another licensed nurse. A cardiovascular assessment is important to assess for heart murmurs, dysrhythmias such as atrial fibrillation, and hypertension. With an ischemic stroke, a blood pressure of approximately 150/100mmHg is needed to maintain cerebral perfusion. With a blood pressure of 152/84mmHg, an IV antihypertensive medication would not be indicated. For a client receiving fibrinolytic therapy, invasive tubes such as indwelling urinary catheters should not be placed for at least 24 hours or until the client is stable to prevent bleeding. Frequent neurological assessments per facility protocol are important for a client with ischemic stroke, and for clients receiving fibrinolytic therapy, to detect further clinical deterioration early on.

Test-Taking Strategy: Note the question is asking about nursing actions to plan care for the client experiencing an ischemic stroke. Think about the scenario and the potential effects of these interventions on the health problem presented. Look at each option provided and make an association with the information presented in the medical record, as illustrated in the table below.

Intervention	Potential Effects on Ischemic Stroke	
Complete a swallow screen	Ensure safety in the event of dysphagia as a complication of the stroke	
Allow thickened liquids only	Is unsafe and could result in aspiration; need to wait until further work-up and consultation is done	
Administer fibrinolytic therapy	Would promote a better outcome for a client with ischemic stroke meeting criteria	
Obtain an electronic infusion pump	Needed to safely administer fibrinolytic therapy	
Perform a cardiovascular assessment	Important information such as heart sounds and blood pressure are needed to monitor for complications for a client with ischemic stroke	
Insert an indwelling urinary catheter	No indication that this is necessary and could pose a risk for urinary tract infection	
Administer IV antihypertensive medication	A BP of 150/100mmHg is needed to maintain cerebral perfusion; BP is not high enough for an IV antihypertensive medication	
Perform frequent neurological assessments	Assists in detecting clinical deterioration early	

> The correct options are those that ensure safety, monitor for complications or clinical deterioration, or promote a better outcome of care. The options that are unsafe and could result in additional complications or that do not have the data to support the interventions are the incorrect options.





Explore Options for Electronic Testing of the **NGN Test Item Types**

- Begin to discuss the plan for which NGN Test Items will be incorporated into course exams.
- · Plan a meeting with the informational technology (IT) department to identify current platforms being used in the college or university and if these platforms will support the use of NGN item types and their scoring. Involve IT department as a resource in making decisions.
- Seek administrative support to explore electronic platform options for NGN item type testing.

Scoring the NGN Item Types

Scoring Rules:

There are three scoring rules identified by the NCSBN that will be used to score some current NCLEX and new NGN items.



0/1 Scoring Rule

- Applied when the test-taker is instructed to choose a specific number of responses
- Earn 1 point for a correct response
- Earn 0 points for incorrect responses
- Total score = sum of all correct responses



+/- Scoring Rule

- · Applied when the test-taker is instructed to choose an unspecified number of responses
- · Allows the test-taker to over- or under-respond
- Earn points (+1) for selecting correct information
- Lose points (-1) for selecting incorrect information
- Maximum points = number of correct options
- Minimum points = 0
- There are no negative scores



Rationale Scoring Rule

- · Test-taker must have a full understanding of paired information
- Concepts require justification through a rationale
- · Both X and Y must be correct to earn a point

Max points: dyad is 1pt

- Dyad examples:
 - A nurse must do X because of Y
 - ✓ A client has X as evidenced by Y

Max points: triad is 2pts

- Triad examples:
 - ✓ A nurse must do X because of Y and Z
 - A client has X as evidenced by Y and Z







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NGN Types, Scoring Rule, Points

Туре	Scoring Rule	Points
☆ Highlight		
Highlight In Text	+/- Scoring Rule	Earn points (+1) for selecting correct information
		Lose points (-1) for selecting incorrect information
		Maximum points = N keys
		Minimum points = 0
		No negative scores
Highlight In Table	+/- Scoring Rule	Earn points (+1) for selecting correct information
		Lose points (-1) for selecting incorrect information
		Maximum points = N keys
		Minimum points = 0
		No negative scores
☑ Drag & Drop		
Drag & Drop Cloze	0/1 Scoring Rule	Earn 1 point for a correct response
		Earn 0 points for incorrect responses
		Sum is across all targets
		Maximum score = Number of targets
Drag & Drop Rationale	Rationale Scoring Rule	Both X and Y must be correct to earn a point
		Maximum points: dyad 1pt; triad 2pts
√ Drop Down		
Drop Down Cloze	0/1 Scoring Rule	Sum is across all drop downs
		Max score = Number of drop downs
Drop Down Rationale	Rationale Scoring Rule	Both X and Y must be correct to earn a point
		Maximum points: dyad 1pt; triad 2pts
Drop Down In Table	0/1 Scoring Rule	Sum is across all drop downs
•		Maximum score = Number of drop downs

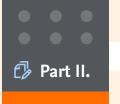




NGN Types, Scoring Rule, Points, cont.

Туре	Scoring Rule	Points
··· Matrix/Grid		
Matrix Multiple Response	+/- Scoring Rule	No negative score per column Sum of the points per column is the item's total score Maximum score = N keys
Matrix Multiple Choice	0/1 Scoring Rule	Earn 1 point for the correct response Earn 0 points for the incorrect response The score over the rows is added to get the total score of the item Maximum score = Number of rows
≡ Extended Multiple Response		
Multiple Response Select All That Apply Multiple Response Select N Multiple Response Grouping	+/- Scoring Rule 0/1 Scoring Rule +/- Scoring Rule	Earn points (+1) for selecting correct information Lose points (-1) for selecting incorrect information Maximum points = number of correct options Minimum points = 0 No negative scores Earn 1 point for each correct response Earn 0 points for any incorrect response No negative score per grouping Sum of the grouping points is the item's total score
Stand-Alone Items		Max score = N keys
Bow-Tie	0/1 Scoring Rule	There will be 2 answer options for the left well, 2 answer options for the right well, and one option for the middle well making the max possible points 5. Earn1 point for each correct response Earn 0 points for any incorrect response
Trend	Scoring rule depends on the item type used	

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Preparing for the NGN: Steps for the RN and LPN/ LVN Rollout Plans



Semester 3/4: Readiness for the NGN

Semester 3/4 of the rollout plan focuses on assessment and determining readiness for the NGN

View the rollout plans with all the phases for RN and PN/VN programs



Curriculum Approach

- Continue with activities outlined in Semester 2 using more complex clinical scenarios.
- Begin to gradually include new NGN test item formats on course exams but as graded items.
- In course exams, start by including item types which students will find the most familiar and most comfortable.
- Gradually increase the inclusion of NGN items over the last two semesters of the nursing program. In the final semester course exams, include three unfolding cases, each with six cognitive skill NGN questions, and two to three bow-tie and two to three trend items. Again, these should be graded items.
- Standardized testing course to course and end-ofprogram testing is important for assessment and determining readiness for NCLEX.

Final Preparation

- Encourage students to self-assess and identify their specific strengths and weaknesses with regard to content areas and test plan areas.
- From the start of the program, students should be using the NCLEX test plan to identify activities that will be tested; encourage students to continue to use the test plan blueprint as a study guide for final NCLEX preparation.
- Guide students to access resources such as the Candidate Bulletin on the NCSBN website at www.ncsbn.org to familiarize themselves with the exam.
- Encourage students to practice test questions in preparation for NCLEX, both current items since they are still going to be on the exam, and case studies and NGN items.
- Encourage students to attend an NCLEX review course prior to taking the NCLEX.





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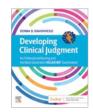
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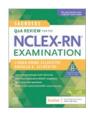


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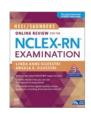
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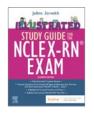
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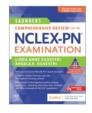
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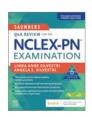
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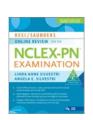
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