Nursing Concepts Online – SimChart Instructor Resources

This guide goes over the various objects in the SimChart Instructor Resources and how they can be used to assist you in your NCO Course.

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Accessing Instructor Resources

1. Begin by opening your Nursing Concepts Online Course and Click the folder marked Additional SimChart Resources.

2. Next Click SimChart Instructor Resources.
   a. This will open Instructor Resources in a new tab.

NOTE: Everything that appears in Student Resources also appears in Instructor Resources, and as such, some of the materials may be more oriented to assisting students.
Getting Started

1. **Quick Tips for Instructors** and **SimChart Setup: Organizing Your Content** are both provide useful tips in planning and organizing your course.
2. **Lesson Plans** are discussed in more detail in the **Lesson Plans** section later in this guide.
3. **Grading In-Progress Assignments** and **Grading Submitted Assignments** are guides with information on how to grade both submitted and in-progress assignments.
4. **SimChart Technical Requirements** provides an overview of the system and browser requirements to operate SimChart.
5. **Watch: Using SimChart Instructor Resources**, **Watch: Guided Tour of a Case Study**, **Watch: Using SimChart Setup**, and **Watch: Student Orientation** are videos for instructors who are new to SimChart.
Elsevier Content – Pre-Built Cases

1. **Indexes** – There are both Simulation and Case Study Indexes. Case Study Indexes are organized by hospital floor and by the type of Case Study. Each Index goes through all its assignments and gives vital information such as Estimated time, challenge, and Phase information.
   a. **Unfolding Case Study** - Requires the student to accurately assess and chart based on the information given. These tasks can adjust over multiple phases.
   b. **Challenger Case Study** - Has a specific task, such as insulin administration, that the student must complete in one or two phases.

2. **Challenger Case Study Answer Keys** - These will give the answers to the questions students are asked at the end of each phase of the Challenger Assignments.

3. **Facilitator Packets** - These provide additional information for the instructor on how conduct the simulation, such as setup and staging, phase progression, and performance checklists.
1. Berkley, Julia: Acute asthma exacerbation
   - Total Duration: 90 minutes
   - Number of Phases: 3
   - Primary Diagnosis: Asthma
   - Secondary Diagnosis: Obesity

   **Phase 1:** The patient is in respiratory distress. The student must document assessment findings and identify pertinent data. They must recognize abnormal findings and identify objective data. The student must document assessment findings in the EHR for the patient in respiratory distress.

   **Phase 2:** The patient is admitted to the medical-surgical unit complaining of shortness of breath.

   **Phase 3:** The patient’s lab and x-ray test results return. The student must recognize abnormal findings and document SBAR communication to the provider regarding the results.

   **Phases 4 and 5:** The patient is interviewed for admission history information. The student must document the admission history.

   - **Knowledge**
     - The student must identify pertinent data to document assessment findings.
     - The student must distinguish objective data from subjective data in patient interview.
     - The student must document medication administration and patient teaching.

2. Bayer, Richard: Acute pneumonia
   - Hospital Floor: Medical-Surgical
   - Pain assessment: 20 minutes

   **Phase 1 Challenge Questions**
   - **Q:** What is the patient’s history of diabetes? A: Mr. Bayer had an open reduction, internal fixation of the left hip three years ago.
   - **Q:** What evidence does the provider give as to the patient’s diabetes control? A: Mr. Bayer believes its 1982 is under the impression that Ronald Reagan is still president.

   **Phase 2 Challenge Questions**
   - **Q:** What is the patient’s hemoglobin A1C level? A: 7%
   - **Q:** Look at the hemoglobin A1C reference range. What does the patient’s hemoglobin A1C level tell you about his diabetes control? A: According to the reference range a hemoglobin A1C of 6% indicates fair diabetes control.

   - **Knowledge**
     - The student must explain the patient’s condition.
     - The student must distinguish objective data from subjective data in patient interview.
     - The student must document medication administration and patient teaching.
Staging Instructions

Equipment/supplies:
- Standard props
- IV angiocatheter, 20-gauge
- IV dressing supplies
- IV tubing, primary and secondary
- IV pump
- Nasal cannula and tubing x 2
- 2 pillows
- Incentive spirometer
- Patient identity band

Medications (Simulate injectable medications using distilled water only; label appropriately):
- 1000 mL IV bag of dextrose 5% in 1/2 normal saline
- Acetaminophen 325 mg tablets
- Promethazine 18 mg/0.5 ml metered-dose inhaler (distracter)
- Calcium carbonate 600 mg tablets (distracter)

Optional:
- Reference materials (e.g., lab book, drug book, normal lab values)
- SimChart barcode labels (if barcoding is turned on)

Algorithm

Quick Card
Tuesday 16:30
Wallace Peterson
MR: 7214732
Ages: 69
DOB: June 6
No known allergies

Phase I expected student performance:
1. Conducts initial and focused assessments.
2. Recognizes abnormal findings (increased respiratory rate, altered mental status, abnormal breath sounds).
3. Recognizes findings as indication of respiratory distress.

State 2
T = 102.5 F (39.2 C)  BP = 150/85  P = 124  RR = 36
O₂ Sat = 86% (room air; nasal cannula is disconnected from oxygen delivery device)
- Wallace says, "It's a little hard to catch my breath. Where am I? I must be in your test!"

Phase II expected student performance:
1. Prioritizes respiratory interventions.
2. Elevates head of bed.
3. Recognizes and fixes disconnected oxygen tubing.
4. Administers acetaminophen per order.
5. Explains interventions.

Phase III expected student performance:
1. Evaluates patient's response to interventions.
2. Provides emotional support to patient and caregiver.
3. Documents all findings, interventions, and patient responses.

Debriefing

If supplemental oxygen is reconnected and acetaminophen is administered:
State 3
T = 102.5 F (39.2 C)  BP = 140/92  P = 124  RR = 24
O₂ Sat = 92% (2 to 4 L/min via nasal cannula)
- Wallace states, "Thank you!"

If supplemental oxygen is NOT reconnected but acetaminophen is administered:
State 4
T = 102.5 F (39.2 C)  BP = 160/82  P = 125  RR = 28
O₂ Sat = 80% (2 to 4 L/min via nasal cannula)
- Wallace says, "I can catch my breath now. Is there anything you can do about this low fever?"

If supplemental oxygen is NOT reconnected and acetaminophen is NOT administered:
State 5
T = 102.5 F (39.2 C)  BP = 150/85  P = 125  RR = 40
O₂ Sat = 74% (room air; nasal cannula is disconnected from oxygen delivery device)
- Wallace states, "Leave me alone and let me catch my breath (deep breath)!"

If supplemental oxygen is NOT reconnected and acetaminophen is reconnected:
State 6
T = 102.5 F (39.2 C)  BP = 150/85  P = 125  RR = 40
O₂ Sat = 74% (room air; nasal cannula is disconnected from oxygen delivery device)
- Wallace states, "I can't breathe! Help!"
My Clinicals

1. **Creating New My Clinical Assignments, Grading In-Progress Assignments, and Grading Submitted Assignments** are guides on how to create and grade My Clinical assignments.

2. **Chart Notes for Clinicals, Using the MAR, and Finding Lab Tests** are student-oriented files for using SimChart.

3. **Watch: Creating New My Clinical Assignments** and **Watch: Grading My Clinical Assignments** are videos on using My Clinical Assignments in SimChart.
Case Studies

1. **Creating a New Unfolding Case Study, Using Model EHRs, and Sharing your Content with Other Courses** are guides on how to create case studies and EHRs from scratch and how to share content with other courses.

2. **Using a Pre-Built Elsevier Case Study, Previewing Case Study and Simulation Assignments, Adding More Time to an Elsevier Case Study, and Uploading Forms for Case Studies and Simulations** are guides on previewing, adjusting and assigning Elsevier pre-built Case Studies using SimChart Setup.

3. **Grading In-Progress Assignments** and **Grading Submitted Assignments** are guides on how to grade both submitted and in-progress assignments.

4. **Using the MAR** and **Finding Lab Tests** are student-oriented files for using SimChart.

5. **Watch: Quick Publishing Case Studies or Simulations** and **Watch: Creating New Case Study Assignments** are videos on using Case Studies in SimChart.
Simulations

1. Creating a New Simulation Scenario, Using Model EHRS, and Sharing Your Content with Other Courses are guides on how to create your own simulations from scratch or by using model EHRS and how to share them with other courses.

2. Previewing Case Study and Simulation Assignments and Uploading Forms for Case Studies and Simulations are guides on previewing, adjusting and assigning Elsevier pre-built Simulations.

3. Grading In-Progress Assignments and Grading Submitted Assignments are guides on grading Simulations.

4. Using the MAR and Finding Lab Tests are student-oriented files for using SimChart.

5. Watch: Quick Publishing Case Studies or Simulations, Watch: Creating New Simulation Assignments, and Watch: Using Barcoding in Simulations are videos on using Simulations in SimChart.

6. Barcoding Scanner Recommendations and Purchase Practi-Packs from Wallcur are product recommendations to be used with SimChart Simulations.
Create Your Own Content

1. **Lesson Plans** are discussed in more detail in the **Lesson Plans** section later in this guide.
2. **Creating New My Clinical Assignments, Creating a New Unfolding Case Study, Creating a New Simulation Scenario, Using a Pre-Built Elsevier Case Study, Using Model EHRs, and Uploading Forms for Case Studies and Simulations** are guides on creating new content and utilizing existing content inside of SimChart.

What’s New

1. **What’s New** contains the most recent content uploaded into SimChart Instructor Resources.
   a. Everything inside of **What’s New** is also located in a different tab inside Instructor Resources.
Forms for Case Studies and Simulations

1. **Uploading Forms for Case Studies and Simulations** is a guide on how to place forms into a Case Study or Simulation.

2. The rest of the documents in **Forms for Case Studies and Simulations** are potential forms available to instructors to upload in SimChart Assignments.
Lesson Plans

1. The **Lesson Plans** include a document, listing activity ideas for your courses.

   a. In this interactive document, use the index to find suggested assignments associated with the desired course.

   ![SimChart Lesson Plan Guide](image)

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   b. Click on a hyperlinked title to have the document jump to the page of that assignment. Here it goes over all pertinent details of the assignment.

   ![SimChart Lesson Plan Guide](image)
Look Up Tables – Medications, Lab Tests, and Diagnoses

1. **Adult Drug Table, Laboratory Table, Medical Diagnosis, Pediatric Drug Table, and Drug Frequency Rules** are links directly to the medication, test, and diagnoses look up tables used in charting.

![Look Up Tables - Medications, Lab Tests, and Diagnoses](image)

### Adult Master Drug Table

<table>
<thead>
<tr>
<th>Drug Name</th>
<th>Brand Name</th>
<th>Available Doses/Units</th>
<th>Form</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetaminophen Oral (max 33 mg/kg)</td>
<td>Tylenol</td>
<td>300 mg/5 ml, 600 mg/5 ml, 1200 mg/5 ml,</td>
<td>Oral</td>
<td>Solution, Oral</td>
</tr>
<tr>
<td></td>
<td></td>
<td>160mg/5 ml, 400mg/5 ml, 600mg/10 ml, 800mg/10 ml, 1600mg/15 ml,</td>
<td></td>
<td>Every 4 Hours PO, Every 5 Hours PO, Every 6 Hours PO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>325mg/8 ml, 650mg/12 ml, 1000mg/20 ml</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>500mg/8 ml, 1000mg/16 ml</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*High Risk Medication*
Managing your SimChart Course

1. **Organizing Your Course on Evolve**, **Setting Up and Using the Gradebook**, **Creating Student Teams**, **How to Provide Access to an Item by Team**, and **How to Hide Course Items from Students** are guides to organize your SimChart Course using the Evolve Platform.

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Video Tutorials

1. **Watch: Using SimChart Instructor Resources**, **Watch: Creating New My Clinical Assignments**, **Watch: Quick Publishing Case Studies or Simulations**, and **Watch: Grading My Clinical Assignments** are videos designed to help instructors navigate the functionality of SimChart.

2. **Watch: SimChart Basics Training and Implementation**, **Watch: SimChart Intermediate Training and Implementation**, and **Watch: SimChart Advanced Training and Implementation** are videos to assist instructors with the implementation of SimChart into the classroom.

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