

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.

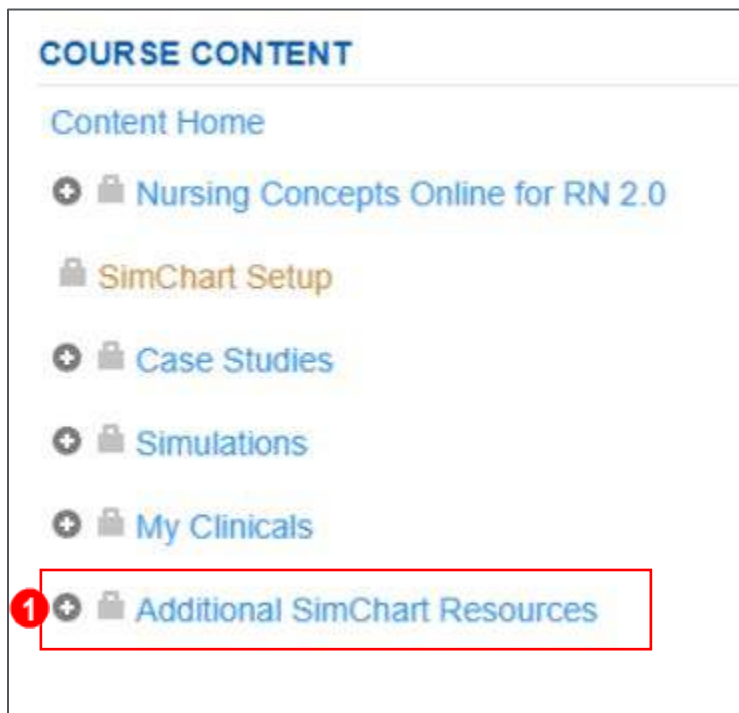
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Accessing Instructor Resources

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



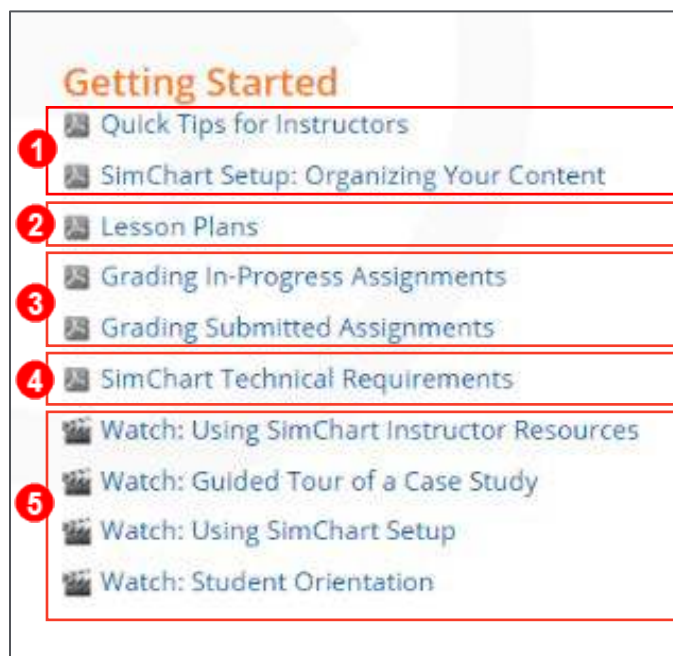
2. Next Click **SimChart Instructor Resources**.
 - a. This will open Instructor Resources in a new tab.



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.



<div> <div>SimChart</div> <div>UNFOLDING CASE STUDY INDEX</div> </div>				
Case Study	Patient Data Phase Info	Primary Challenge	Phase Timeline	Case Level
Medical-Surgical				
<div>1</div> <div> Berkley, Julia: Acute asthma exacerbation Total Duration: 80 minutes  Concept: Gas Exchange </div>	45 years Female Number of Phases 5 Hospital Floor Medical-Surgical Case Presentation Patient is admitted to the medical-surgical unit complaining of shortness of breath. Primary Diagnosis Asthma Secondary Diagnosis Obesity	Student will recognize abnormal findings and identify objective admission data to document in the EHR for a patient in respiratory distress.	Phase 1: The patient is in respiratory distress. The student must document assessment findings and SBAR communication with the provider. Phase 2: The patient is meant to receive medication and accompanying teaching. The student must document medication administration and patient teaching. Phase 3: The patient's lab and x-ray test results return. The student must recognize the 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.	This case study includes several levels of student activity. <ul style="list-style-type: none"> Knowledge <ul style="list-style-type: none"> The student must identify pertinent data to document assessment findings. Comprehension <ul style="list-style-type: none"> The student must interpret assessment findings to document SBAR communication. The student must distinguish objective data from subjective data in patient interview to document admission history. Application <ul style="list-style-type: none"> The student must demonstrate understanding of concepts by documenting medication administration and patient teaching.
Berkley, Julia: Acute asthma exacerbation,	45 years Female Number of Phases	Student will recognize abnormal findings and identify pertinent data and	Phase 1: The patient is in respiratory distress and has a strong, productive cough. The student must document assessment findings, recognize abnormal findings, and document SBAR	This case study includes several levels of student activity. <ul style="list-style-type: none"> Knowledge

<div> <div>SimChart</div> <div>CHALLENGER ANSWER KEY</div> </div>		
Patient Data	Challenger Info	Challenge Answers
MEDICAL-SURGICAL		
<div>2</div> <div>  Royer, Richard 92 years : Male Primary Diagnosis Pneumonia Secondary Diagnosis Dehydration <i>Patient with a history of type 2 diabetes, hypertension, congestive heart failure, and dementia</i> </div>	Insulin administration Challenge Duration 25 minutes Number of Phases 2 Hospital Floor Medical-Surgical Concept Glucose Regulation	Phase 1 Challenge Questions Q: What is the patient's surgical history? A: <i>Mr. Royer had an open reduction, internal fixation of the left hip three years ago.</i> Q: What evidence does the provider give as to the patient's disorientation to time? A: <i>Mr. Royer believes it is 1982 and is under the impression that Ronald Reagan is still president.</i> <i>Answer Location: Provider Charts → History and Physical</i> Q: What is the patient's hemoglobin A1C level? A: 8% Q: Look at the hemoglobin A1C reference ranges. What does the patient's hemoglobin A1C level tell you about his diabetic control? A: <i>According to the reference ranges a hemoglobin A1C of 8% indicates fair diabetic control.</i> <i>Answer Location: Order Results</i> Phase 2 Challenge Questions Q: What was the patient's last blood glucose level? A: <i>Mr. Royer's last blood glucose level was 279 mg/dL.</i> Q: In what location was the last insulin administration injected? A: <i>The site of Mr. Royer's last insulin injection was in the right posterior upper arm.</i> <i>Answer Location: Special Charts → Miscellaneous Nursing Notes (Patient Charting Summary)</i>
	Pain assessment Challenge Duration 20 minutes	Phase 1 Challenge Questions Q: What diagnostic test did the patient have performed this afternoon, and what were the findings? A: <i>The patient had an x-ray of the left hip performed at 1330. There is no evidence of acute fracture or dislocation. Significant degenerative changes noted. No other soft tissue or bony lesions are seen. Impressions: Degenerative changes and no acute processes.</i> <i>Answer Location: Order Results</i>

Staging Instructions

Props

Equipment/supplies:

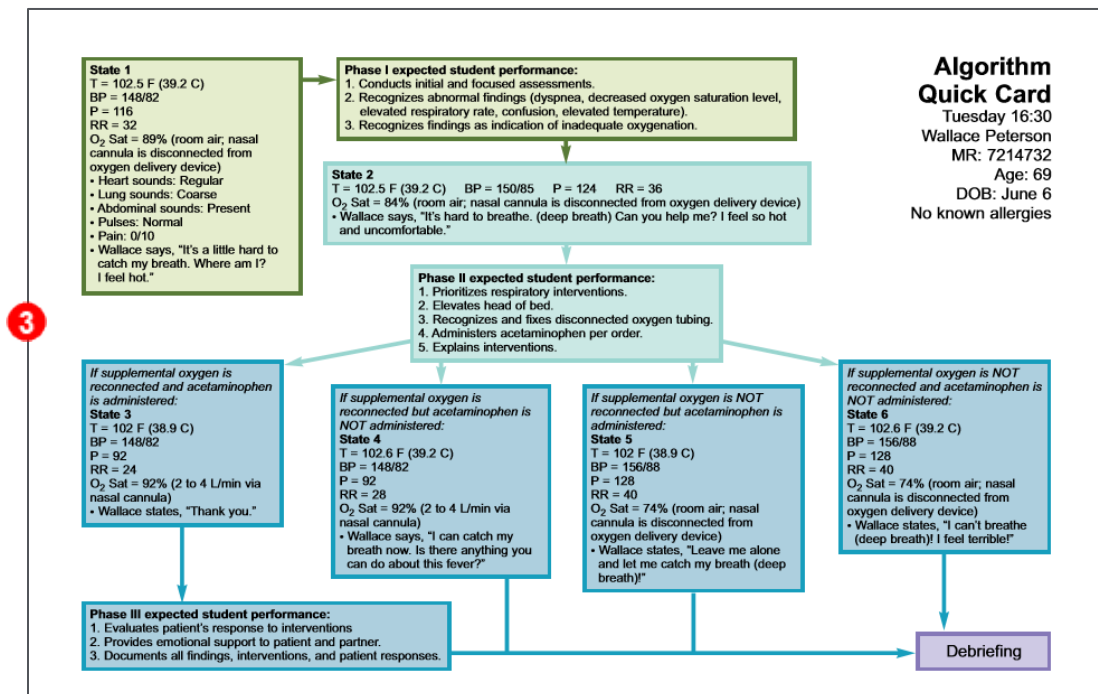
- Standard props
- IV angiocatheter, 20-gauge
- IV dressing supplies
- IV tubing, primary and secondary
- IV pump
- Nasal cannula and tubing x 2
- 2 pillows
- Incentive spirometer
- Patient identity band

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
- Ipratropium 18 mcg/puff metered-dose inhaler (distracter)
- Calcium carbonate 600 mg tablets (distracter)

Optional:

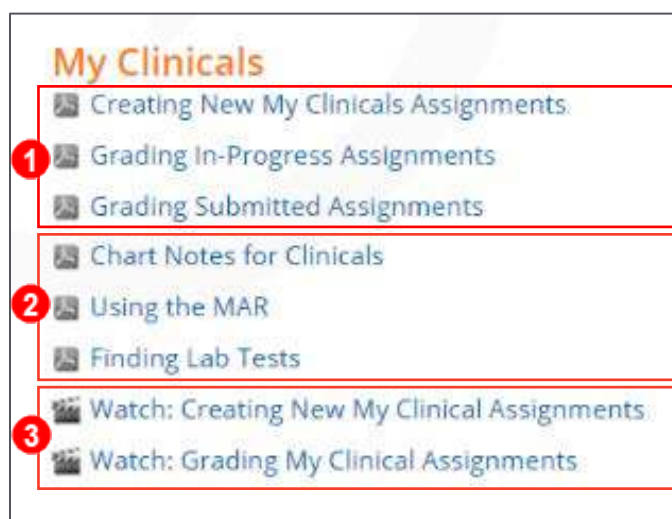
- Reference materials (e.g., lab book, drug book, normal lab values)
- SimChart barcode labels (if barcoding is turned on)



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✓ Performance Checklist					
Initial Assessment		Focused Assessment		Interventions	
Reviews patient's health record.		Conducts focused assessment.		Prioritizes respiratory interventions.	
Performs hand hygiene before and after patient contact.		Recognizes abnormal findings:		Elevates head of bed.	
Demonstrates appropriate use of personal protective equipment.		<ul style="list-style-type: none"> • Dyspnea • Decreased oxygen saturation level • Elevated respiratory rate • Confusion • Elevated temperature 		Recognizes and fixes disconnected oxygen tubing.	
Introduces self to patient.		Recognizes findings as indications of inadequate oxygenation.		Administers acetaminophen per order using 6 rights of medication administration.	
Verifies patient identity with two identifiers.				Explains interventions and educates patient and partner about rationale for interventions.	
Facilitates informed consent for care by explaining interventions, rationales, and expected outcomes.				Provides emotional support to patient and partner.	
Conducts basic environmental safety assessment and maintains safety measures.					

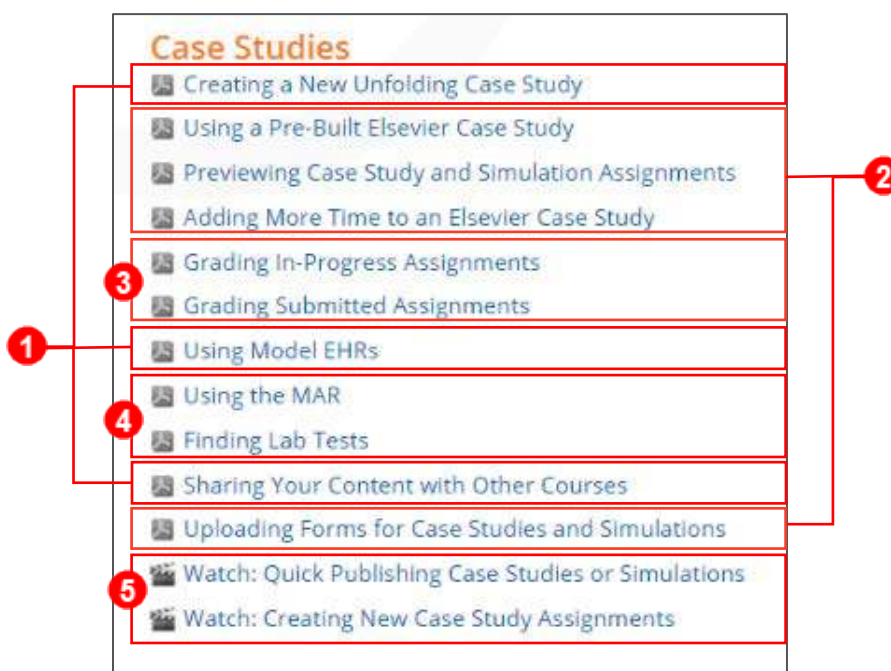
My Clinicals

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.



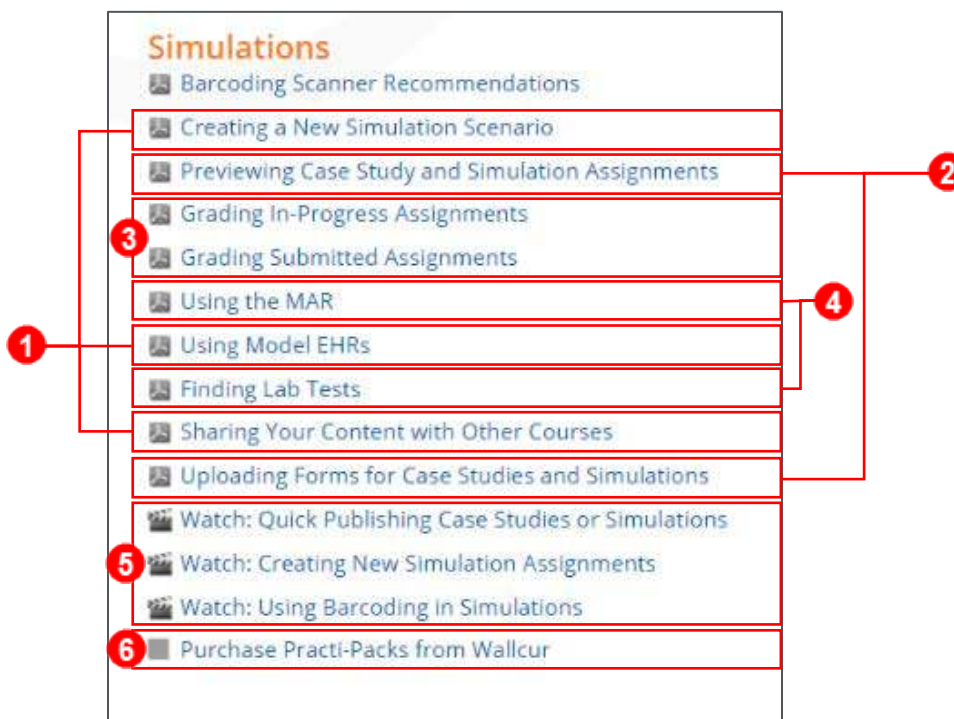
Case Studies

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.



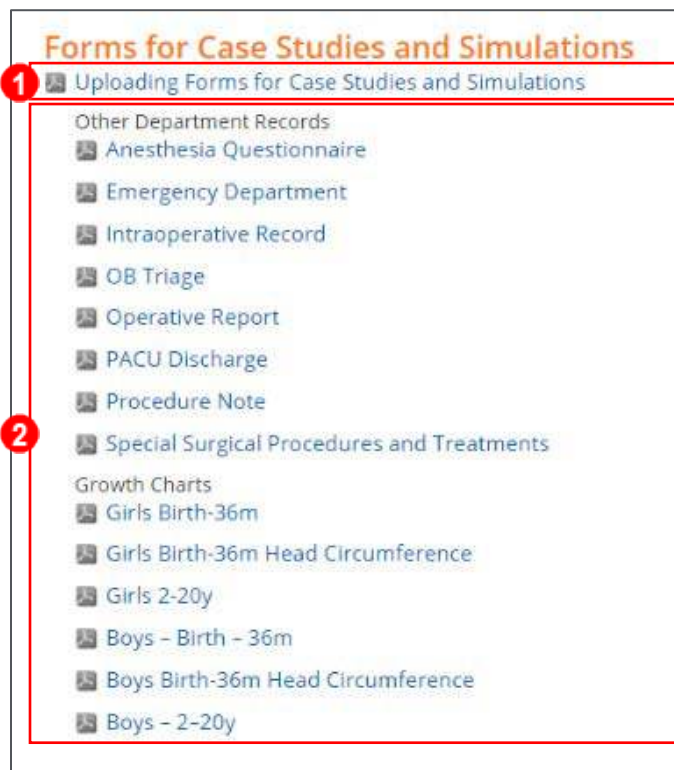
What's New

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

How To Use the Lesson Plan Guide
The SimChart Lesson Plan Guide is designed to help instructors integrate SimChart into their curriculum. It provides suggested activities to use in the lecture, lab, or simulation.

The Guide is organized by course (eg, Anatomy and Physiology, Fundamentals), with details on the level of activity, the forum for delivery, and the use setting. The Guide also provides correlation to national standards (eg, QSEN).

The activities table at the beginning of the document provides a brief overview of the activity. Each Activity is a hyperlink to details on the individual activity. Simply **Ctrl+Click** the Activity Name to link to the activity sheet.

a In addition to the activities listed in the Lesson Plan, you can always publish a My Clinicals assignment and have your students do open charting to get started using SimChart.

Table of Contents	
Activity Category	Page
Learning Activity by Course	3
Anatomy and Physiology	3
Assessment	4
Community / Home Health	9
Critical Care	19
Drug Calculations	28
Fundamentals	30
Gerontology	39
Informatics	47
Issues and Trends	50

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

SimChart® Lesson Plan Guide

Learning Activity	SimChart Application	Activity Objective	Guiding Standards	Instructor Preparation Requirement	Student Preparation Requirement
Anatomy & Physiology					
Blood Pressure Readings Level: Beginner Delivery: Individual, Partners, Small Group, or Classroom Presentation Use: Lecture, Lab, Simulation	My Clinicals	Obtain a variety of blood pressure readings in different settings and record in the electronic health record	QSEN: Patient Centered care, Informatics AACN Essentials: I, IV Giddens' Concept: Caregiving, Care Coordination Meaningful Use Core Objectives: 7	Create a My Clinicals assignment using SimChart Setup	Understanding of how to take a blood pressure reading in a variety of situations
Obtaining Vital Signs Level: Beginner Delivery: Individual, Partners, Small Group, or Classroom Presentation Use: Lecture, Lab, Simulation	My Clinicals	Obtain a variety of vital sign readings in different settings and record in the electronic health record	QSEN: Patient Centered care, Informatics AACN Essentials: I, IV Giddens' Concept: Caregiving, Care Coordination Meaningful Use Core Objectives: 7	Create a My Clinicals assignment using SimChart Setup	Understanding of how to take vital sign readings in a variety of situations

Obtaining Vital Signs
Level: Beginner
Delivery: Individual, Partners, Small Group, or Classroom Presentation

QSEN Evidence Based Practice KSAs
K: Demonstrate knowledge of basic scientific methods and processes
S: Participate effectively in appropriate data collection and other research activities
A: Value the need for continuous improvement in clinical practice based on new knowledge

Activity Competencies
1. Assess a variety of patients vital signs in a variety of situations
2. Record information in an electronic health record
3. Develop a working understanding of electronic health records navigation

Materials, Resources and Preparation
✓ Computer with Internet access
✓ Blood Pressure cuff is a variety of sizes
✓ Noninvasive blood pressure cuff
✓ Stethoscope
✓ Thermometer (oral, rectal, tympanic, etc.)
✓ Pulse oximeter

Teaching Focus
This activity will allow the student to obtain vital sign readings in a variety of situations, recording the information to share with the health care team.

Suggested Ideas for Vital Sign Situations

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

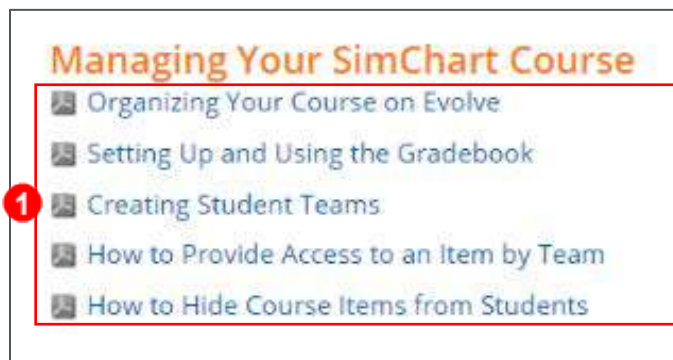
- Adult Drug Table
- Laboratory Table
- 1 Medical Diagnosis
- Pediatric Drug Table
- Drug Frequency Rules

Adult Master Drug Table				
Drug Name	Brand Name	Available Doses/Units	Form Route	Frequency
Abacavir Oral Solution*	Ziagen Solution	300 mg; 600 mg	Solution Oral	2 Times/Day; Daily
Abacavir Tablet*	Ziagen	300 mg; 600 mg	Tablet Oral	2 Times/Day; Daily
Abacavir/Lamivudine 600mg/300mg Tablet*	Epzicom	1 tab	Tablet Oral	Daily
Abacavir/Lamivudine/Zidovudine 300mg/150mg/300mg Tablet*	Trizivir	1 tab	Tablet Oral	2 Times/Day
Abatacept Injection	Orencia	500 mg; 750 mg; 1000 mg	Injection Solution IV	Every 2 Weeks
1 Acamprostate Delayed Release Tablet	Campral	666 mg	Tablet DR Oral	3 Times/Day
Acarbose Tablet	Precose	25 mg; 50 mg; 100 mg	Tablet Oral	3 Times Daily with Meals
Acebutolol Capsule	Sectral	200 mg; 400 mg	Capsule Oral	Daily
Acetaminophen Oral Solution 32 mg/mL	Tylenol	320mg/10mL; 40mg/1.25mL; 80mg/2.5mL; 120mg/3.75mL; 160mg/5mL; 240mg/7.5mL; 400mg/12.5mL; 480mg/15mL; 650mg/20.3125mL	Solution Oral	Every 4 Hours PRN; Every 5 Hours PRN; Every 6 Hours PRN
Acetaminophen Oral Suspension 100 mg/mL	Tylenol	See Instructions	Solution Oral	Every 4 Hours PRN; Every 5 Hours PRN; Every 6 Hours PRN
Acetaminophen Oral Suspension 32 mg/mL	Tylenol; Genapap	320mg/10mL; 640mg/20mL	Solution Oral	Every 4 Hours PRN; Every 5 Hours PRN; Every 6 Hours PRN
Acetaminophen Rectal Suppository	Tylenol; Feverall	80 mg; 120 mg; 325 mg; 650 mg	Suppository Per Rectum	Every 4 Hours PRN; Every 5 Hours PRN; Every 6 Hours PRN
Acetaminophen Tablet	Tylenol; Genapap	325 mg; 500 mg; 650 mg	Tablet Oral	Every 4 Hours PRN; Every 5 Hours PRN; Every 6 Hours PRN

*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.



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.



END OF GUIDE