

# Virtual Simulation Options for Undergraduate Nursing Students

**Note: Most of these resources were created for nursing, however they can be used for other programs by developing program specific prep and/or debriefing questions.**

The NLN gratefully acknowledges these resources compiled by Melody Bethards with contributions from the National League for Nursing Simulation Leaders.  
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## Free Resources

Resource Name	Link	Type of Activity and Information	Additional information or examples of how you can use this resource
<b>NEXUS Learning System</b>	<a href="https://nexusipe.org/engaging/learning-system">https://nexusipe.org/engaging/learning-system</a>	Collection of interactive activities, modules, courses and resources focused on the Nexus and the skills needed to engage in interprofessional practice and education. Find the item that's right for you and your level of experience.	
<b>MedEdPortal Virtual Patients</b>	<a href="https://www.mededportal.org/">https://www.mededportal.org/</a>	Although developed for medical practitioners, there are several virtual patients with a variety of medical conditions that can provide learning experiences for nursing students. To find the virtual patients type the words: virtual patient in the search bar.	May need to create an account to access some patients. Nursing students can complete the patient assessment component then develop a plan of care.
<b>Medscape MedSim Scenarios</b>	<a href="https://www.medscape.com/nurses">https://www.medscape.com/nurses</a>	Medscape offers free MedSim Scenarios for varying patient medical conditions including peds and behavioral health. Although developed for medical practitioners, these scenarios include patient medical records and the ability to conduct assessment interviews with virtual patients that can provide learning experiences for nursing students. To find the MedSim scenarios type the word: MedSim in the search bar.	Will need to create an account to access scenarios. Nursing students can review chart and complete patient assessment component of scenario then develop a plan of care.

<p><b>Ryerson University, and George Brown College Virtual Healthcare Experience</b></p>	<p><a href="https://de.ryerson.ca/games/nursing/hospital/index.html">https://de.ryerson.ca/games/nursing/hospital/index.html</a></p>	<p>Free grant funded virtual hospital with a focus on the specialty areas of Emergency, Mental Health, OB, and PEDS. Include “choose your path” options</p>	
<p><b>Montgomery College Nursing Simulation Scenario Library</b></p>	<p><a href="https://www.montgomerycollege.edu/academics/departments/nursing-tpss/nursing-simulation-scenario-library.html">https://www.montgomerycollege.edu/academics/departments/nursing-tpss/nursing-simulation-scenario-library.html</a></p>	<p>Free grant funded video based scenarios from basic to complex. Includes faculty resources.</p>	
<p><b>NLN ACE Cases</b></p>	<p><a href="http://www.nln.org/professional-development-programs/teaching-resources">http://www.nln.org/professional-development-programs/teaching-resources</a></p>	<p>Developed as manikin/standardized patient scenarios but can be used virtually. Include video and/or audio patient monologues. Faculty tool kits under each scenario provide suggestions. Includes a variety of resources for students and faculty.</p>	
<p><b>Canada Sim-ONE scenario exchange</b></p>	<p><a href="http://www.sim-one.ca/scenario/search">http://www.sim-one.ca/scenario/search</a></p>	<p>Free scenario exchange for all healthcare disciplines. There are a few video-based activities. You can use the search option to find them. Will need to sign up for an account. Are encouraged to contribute to the exchange. Some scenarios include faculty resources.</p>	<p>Will need to create an account to access scenarios</p>
<p><b>CAN-Sim virtual games</b></p>	<p><a href="http://www.can-sim.ca/games/">http://www.can-sim.ca/games/</a></p>	<p>Variety of free virtual simulations/virtual games for faculty use.  <b>Disclaimer on the site: Please note that the website is only available for simulation faculty/facilitators. We cannot maintain confidentiality of the games and resources if students access the site. This is very important to maintain the integrity of the content, as many resources are used as part of research projects.</b></p>	<p>We have designed this site so you can download or cut/paste all the resources. You can then transfer content to your own learning platform. For example, assessment rubrics can be downloaded in either docx or pdf format, VSG game link can be shared using the URL, and other resources such as the learning outcomes, reflective questions, and resources can be copied. You also have the option to provide additional resources</p>

<b>Geriatric Clinical Simulations (geroclinsim)</b>	<a href="http://geroclinsim.org/">http://geroclinsim.org/</a>	Free grant funded computer-based scenarios focused on care of the elderly. Requires an account to be set-up. Includes a variety of resources for students and faculty.	
<b>Global Network for Simulation in Healthcare Clinical Challenges/Team Engagements</b>	<a href="http://www.gnsh.org/30-minute-weekly-initiative/teamengagements/">http://www.gnsh.org/30-minute-weekly-initiative/teamengagements/</a>	Complex medical scenarios with discussion questions built in. Topics on sepsis, medication errors, healthcare associated infections, and care team. Created for interprofessional but could be used for intraprofessional. Sepsis and Medication errors includes facilitators guide.	We have designed this site so you can download or cut/paste all the resources. You can then transfer content to your own learning platform. For example, assessment rubrics can be downloaded in either .DOCX or .PDF format, VSG game link can be shared using the URL, and other resources such as the learning outcomes, reflective questions, and resources can be copied. You also have the option to provide additional resources or provide comments in the Leave A Reply option on many of the pages.
<b>Play Spent Poverty Game</b>	<a href="http://playspent.org/html/">http://playspent.org/html/</a>	Free poverty simulation game. For any discipline/any level	
<b>World Health Organization (WHO): Simulation Exercise Portal</b>	<a href="https://extranet.who.int/sph/simulation-exercise">https://extranet.who.int/sph/simulation-exercise</a>	Includes several tabletop (TXX) scenarios (including one on COVID-19) and videos of simulated global disasters.	All content has been developed and shared by CAN-Sim members from across Canada and internationally.
<b>Ontario Simulation Alliance (OSA) Community Health Simulations</b>	<a href="http://www.ontariosimalliance.ca/community/virtual-community/">http://www.ontariosimalliance.ca/community/virtual-community/</a>	Includes a variety of virtual simulation related to community health including a home mental health assessment, a health center in a First Nations community, and a disaster simulation.	
<b>Avkin COVID-19 skills simulations</b>	<a href="http://www.avkin.com">http://www.avkin.com</a>	Offering a free trach suctioning and free catheterization virtual simulation built in a Google Forms quiz format where learners have access to view the skills simulation and answer questions.	Simulations are sent via email. To receive these and any future scenarios, complete the contact information tab found on the lower right hand corner of the website

<p><b>Avkin patient scenarios</b></p>	<p><a href="http://www.avkin.com/character-vault.html">http://www.avkin.com/character-vault.html</a></p>	<p>Set of 4 different patient situations (Medical Surgical, Behavioral Health, Diversity).</p>	<p>Can be used as a basis for developing plan so care and or class discussions. Will need to provide email to access videos</p>
<p><b>ARISE Simulations</b></p>	<p>Videos:  <a href="https://www.youtube.com/channel/UCOtn8DLDbAX3YSPfNzI0pyQ?view_as=subscriber">https://www.youtube.com/channel/UCOtn8DLDbAX3YSPfNzI0pyQ?view_as=subscriber</a></p> <p>Scenarios/Teaching Plans:  <a href="https://www.skillscommons.org/handle/taaccct/4068/discover?query=ARISE">https://www.skillscommons.org/handle/taaccct/4068/discover?query=ARISE</a></p>	<p>Free open source videos created to support select scenarios developed as part of the CVTC ARISE project funded by a TAACCCT4 grant from the Department of Labor. Associated teaching plans can be found on Skills Commons. Please use the following attribution when using these videos in your learning activities: "This video was created by Chippewa Valley Technical College as part of the ARISE project, and is licensed under CC BY 4.0."</p>	<p>Videos only apply to 30 of the scenarios found on the Skills Commons website. Video numbers correspond with select scenarios. A complete list of scenarios and corresponding numbers can be found here:  <a href="https://drive.google.com/file/d/1P8qqSEIoMSnV6C2so36Hbxzj9rx78tl/view">https://drive.google.com/file/d/1P8qqSEIoMSnV6C2so36Hbxzj9rx78tl/view</a></p>
<p><b>California Simulation Alliance</b></p>	<p><a href="https://www.californiasimulationalliance.org/scenarios-and-tools/">https://www.californiasimulationalliance.org/scenarios-and-tools/</a></p>	<p>Due to the COVID-19 crisis, the California Simulation Alliance has opened up FREE ACCESS to our Scenarios until <b>May 31st</b></p>	<p>Scenarios are designed for manikins and SPs. Includes COVID-19 scenarios</p>
<p><b>PULSE</b></p>	<p><a href="https://pulse.kitware.com/">https://pulse.kitware.com/</a></p>	<p>Pulse is a free learning resource that simulates real-time physiologic responses to common medical conditions, traumas, and treatments.</p>	<p>Tutorial Video can be found at:  <a href="https://vimeo.com/402296498?utm_source=email&amp;utm_medium=vimeo-cliptranscode-201504&amp;utm_campaign=28749">https://vimeo.com/402296498?utm_source=email&amp;utm_medium=vimeo-cliptranscode-201504&amp;utm_campaign=28749</a></p>

## Resources for Purchase

**Since pricing on commercial products can vary, please contact the vendor for this information. Some are offering discounted or free temporary access due to COVID-19**

Resource Name	Link	Type of Activity and Information	Additional information or examples of how you can use this resource
<b>Infusion Nurses Society - Fundamentals of Infusion Therapy (FIT)</b>	<a href="https://www.learningcenter.ins1.org/p/FIT">https://www.learningcenter.ins1.org/p/FIT</a>	Eight learning modules that take the participant, step by step, through the essential elements of infusion therapy. Enhanced learning through full motion graphics, videos, simulations and critical thinking exercises. INS is offering FIT program at a deeply discounted rate to schools of nursing and to individual nursing students, who are in need of virtual learning assets	May be used for virtual lab simulation or clinical hours with faculty debriefing real life scenarios contained in the FIT program.  Along with every purchase of the FIT program for students, INS is contributing free student membership, for access to mapped suggestions of corresponding webinars.
<b>Lippincott Docucare</b>	<a href="http://nursingeducation.lww.com/our-solutions/clinical-simulation/lippincott-docucare.html">http://nursingeducation.lww.com/our-solutions/clinical-simulation/lippincott-docucare.html</a>	Contains multiple prebuilt patient charts with associated Active Learning Packets that include information about how to use product.	Use Classroom Activity option and have students post responses on Blackboard discussion board.
<b>Lippincott vSim for Nursing</b>	<a href="http://nursingeducation.lww.com/our-solutions/clinical-simulation/vsim-for-nursing.html">http://nursingeducation.lww.com/our-solutions/clinical-simulation/vsim-for-nursing.html</a>	Fundamentals, Medical-Surgical, Maternity, Pediatric, Gerontology, Pharmacology, Health Assessment and Mental Health products available.	
<b>Lippincott Clinical Experiences: Community, Public, and Population Health Nursing</b>	<a href="http://nursingeducation.lww.com/lp/lippincott-clinical-experiences.html">http://nursingeducation.lww.com/lp/lippincott-clinical-experiences.html</a>	Type of Activity: Virtual experiences in diverse settings with instructor assignment details	For Population Health Course in undergraduate nursing
<b>NurseThink vclinical</b>	<a href="https://nursethink.com/vclinical">https://nursethink.com/vclinical</a>	Includes scenarios related to dosage calculations, medication passes, obstetrics, mental health, pediatrics, med/surg, and emergency. Offers a free 30-day trial of their student vclinical product.	30-day trial is student access only. Students can screen shot evidence of completion and email/upload to faculty.
<b>Shadow Health</b>	<a href="https://www.shadowhealth.com/products/">https://www.shadowhealth.com/products/</a>	Includes scenarios related to health assessment, advanced health assessment, pharmacology, advanced pharmacology, mental health, gerontology, and leadership.	

<b>Healthcare Learning Innovations (Sentinel U)</b>	<a href="https://www.healthcarelearninginnovations.com/">https://www.healthcarelearninginnovations.com/</a>	Focus on leadership management includes simulations for Prioritization of Care (Hospital and Clinic). Patient Management and Delegation, and Nursing Quality Indicators. Community and professional health (Sentinel City and Sentinel Town)	For capstone objectives for leadership. Community-based products can be used for clinical hours for community and population health.
<b>Oxford Medical Simulation (OMS) Scenarios</b>	<a href="http://oxfordmedicalsimulation.com/product/vr-medical-nursing-distance-learning/">http://oxfordmedicalsimulation.com/product/vr-medical-nursing-distance-learning/</a>	Undergrad: Adult, pediatric, mental health and assessment. Developed for use with VR and also has a distance learning “flatscreen” option. Temporary offering of 60 day free trial of flatscreen option. Virtual scenarios using VR headsets are for fee.	Can be used as virtual simulations for either clinical time, case-based lab lessons, or to replace live simulation courses.
<b>ATI Real Life Scenarios</b>	<a href="https://www.atitesting.com/educator/solutions/real-life">https://www.atitesting.com/educator/solutions/real-life</a>	RN Adult Med/Surg, PN Adult Med/Surg, RN Maternal Newborn, RN Care of Children, RN Mental Health products available.	
<b>AD Instruments</b>	<a href="https://www.adinstruments.com/it/covid19">https://www.adinstruments.com/it/covid19</a>	31 Med/Surg, OB and 1 pediatric interactive case with actual patient videos, diagnostics	Temporary free access until June 30. Online grading or print a pdf
<b>KbPort SimEMR and MedsManager</b>	<a href="https://kbport.com/simulators/simemr/">https://kbport.com/simulators/simemr/</a>	Web-based, simulated electronic medical record. Includes preprogrammed patient profiles across the life span with some preprogrammed assignments.	Offering temporary free access.
<b>KbPort MedMan</b>	<a href="https://kbport.com/simulators/carts-cabs/medsmanager/">https://kbport.com/simulators/carts-cabs/medsmanager/</a>	Cloud-based simulated medication dispensing system. Includes preprogrammed patient profiles across the life span. Designed to be used in conjunction with SimEMR, but can be used alone to teach medication administration skills.	Offering temporary free access.
<b>ehr- Go</b>	<a href="https://ehrgo.com/">https://ehrgo.com/</a>	Web-based, simulated electronic medical record. Formates for IPE, Nursing, Pharmacy, Medical Office, Dietetics, Therapy, Providers, Health information management, and informatics.	Offer a 2 week trial.

## Free Content Resources

Resource Name	Link	Type of Activity and Information	Please add examples of how you have or could use this resource
<b>World Health Organization (WHO)</b>	<a href="https://openwho.org/courses?lang=en">https://openwho.org/courses?lang=en</a>	Free self-paced courses (approx. 1 hour each) on a variety of diseases. Some include completion certificates.	Applicable to all disciplines and levels of learners.
<b>OPEN Pediatric courses</b>	<a href="https://www.openpediatrics.org/learning/topic">https://www.openpediatrics.org/learning/topic</a>	Free basic to critical care pediatric web-based courses from 30 minutes to 15 hours long. Need to register for an account. Click on 'Courses_Free Self-Paced Training'. <b>Choose the Non-accredited certificate option.</b> Use filter option on left hand side to narrow down options by discipline.	Use filter option on left hand side to narrow down options
<b>TeamSTEPPS</b>	<p><b>Office-based:</b>  <a href="https://www.ahrq.gov/team-steps/officebasedcare/index.html">https://www.ahrq.gov/team-steps/officebasedcare/index.html</a></p> <p><b>Long Term Care:</b>  <a href="https://www.ahrq.gov/team-steps/longtermcare/index.html">https://www.ahrq.gov/team-steps/longtermcare/index.html</a></p> <p><b>Dental Office:</b>  <a href="https://www.ahrq.gov/team-steps/dental/index.html">https://www.ahrq.gov/team-steps/dental/index.html</a></p>		

## Suggestions for Using Other Free Resources

Resource Name	Link	Type of Activity and Information	Additional information or examples of how you can use this resource
<p><b>YouTube Videos:</b></p> <p>There are a lot of medical simulation videos on YouTube.</p>	<p>Here is a great example for Fundamentals or CNA - Preventing Aspiration in Older Adults with Dysphagia:  <a href="https://www.youtube.com/watch?v=L1Zkh-FnUKs&amp;feature=emb_logo">https://www.youtube.com/watch?v=L1Zkh-FnUKs&amp;feature=emb_logo</a></p>	<p>*Post link to video in LMS and have students watch then post discussion questions based on video.</p> <p>*Have a group of students join a collaborative site with screen share options such as Skype, Microsoft Teams, or Zoom. Pause video at times to pose questions, discuss thoughts, etc. Group debrief at end of video.</p> <p>*Assign students a video to watch then have them develop a plan of care for the patient/determine how they would care for the patient.</p>	
<p><b>Using Applying TeamSTEPPS videos for leadership/management courses</b></p>	<p><u>Inpatient Medical:</u>  <a href="https://www.ahrq.gov/teamstepps/instructor/videos/ts_vig002a/vig002a.html">https://www.ahrq.gov/teamstepps/instructor/videos/ts_vig002a/vig002a.html</a></p> <p><u>Inpatient Surgical:</u>  <a href="https://www.ahrq.gov/teamstepps/instructor/videos/ts_vig003a/vig003a.html">https://www.ahrq.gov/teamstepps/instructor/videos/ts_vig003a/vig003a.html</a></p> <p><u>Labor and Delivery:</u>  <a href="https://www.ahrq.gov/teamstepps/instructor/videos/ts_vig004a/vig004a.html">https://www.ahrq.gov/teamstepps/instructor/videos/ts_vig004a/vig004a.html</a></p> <p><u>Physician's Office:</u>  <a href="https://www.ahrq.gov/teamstepps/instructor/videos/ts_vig005a/vig005a.html">https://www.ahrq.gov/teamstepps/instructor/videos/ts_vig005a/vig005a.html</a></p>	<p>*Post link to one or all videos in LMS and have students watch then post discussion questions related to how they would have handled the situation (s)</p> <p>*Have a group of students join a collaborative site with screen share options such as Skype, Microsoft Teams, or Zoom. Stop after each video to pose questions, discuss thoughts, etc. Group debrief at end.</p>	
<p><b>Creating multi-patient simulations</b></p>	<p>Use any combination of free resources to create a "unit" of patients.</p> <p>*Assign students to the role of team lead or charge nurse and determine patient assignments and responsibilities for a team of RNs, LPNs, and CNAs</p>	<p>*Develop leadership/management questions such as:</p> <ul style="list-style-type: none"> <li>- Who do you need to consult for each patient?</li> <li>-The HCP is rounding what orders do you need for each patient?</li> </ul>	

\*Have a group of students join a collaborative site with screen share options such as Skype, Microsoft Teams, or Zoom. Have students assume different the different team member roles for each scenario. Stop after each video to pose questions, discuss thoughts, etc. Group debrief at end.

-You have a new admission and need to transfer a patient to open a bed. Who will you transfer?

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