Welcome to the Radford University Clinical Simulation Center (CSC)

The CSC was established as a collaboration between nursing education programs and public/private healthcare facilities in southwest Virginia in 2006. The CSC has two sites located on the third floor of Cook on the Radford University main campus and another site at the Roanoke Higher Education Center. The CSC supports the following area nursing programs: Radford University, Radford University Carilion, New River Community College, Wytheville Community, College, and Patrick Henry Community College.
PURPOSE

Undergraduate:
The CSC provides hands on clinical learning experiences that meet the rigor of Society of Simulation in Healthcare (SSH) accreditation standards and Virginia Board of Nursing regulations to qualify for direct clinical hours. The CSC is an accredited center by the Society of Simulation in Healthcare in Teaching/Education.
MISSION

The Program is committed to:

• **Deliver** a simulation environment that is safe and realistic.
• **Integrate** innovation and evidence-based practice into simulation teaching strategies.
• **Incorporate** state-of the art technologies in clinical education.
• **Promote** interprofessional education.
• **Provide** active learning experiences that foster student reflection and self-discovery.
• **Produce** quality healthcare professionals with enhanced critical thinking abilities, communication and teamwork skills and clinical competence.
The Clinical Simulation Center aspires to be the premier, innovative and student-centered simulation program with a keen focus on teaching, research and interprofessional education preparing competent, compassionate, professional clinicians to meet the needs of the local and global community.
“We believe that everyone is intelligent, capable, cares about what they are doing.”

“We recognize you are trying to do your best to learn and improve, any mistake made will help in your learning and self improvement process”.
“As your instructors, we have done everything to make the simulation as real as possible with resources and technology constraints. We ask that you do the best you can to act as if the simulation is real treating the patient as you would a real person”.
PARKING

• **Cook Hall** (RU main campus, Radford):

  https://www.radford.edu/content/parking-transportation/home/information/maps.html

• **Roanoke Higher Education Center** (RHEC): your campus faculty will email a parking pass to you. You MUST park in designated student parking to avoid receiving a parking ticket.
STUDENT EXPECTATIONS

• Session times – posted per campus faculty (in learning management system or student email)
  • MUST arrive 30 minutes prior to start of session.
  • Late arrivals will be sent home.

• Prepare
  • Complete admission tickets - Admission tickets are required to participate. Students must bring individually completed, printed copies on the day of simulation.
STUDENT EXPECTATIONS

• **Dress Code**
  • Follow SON dress code

• **Participate**
  • Buy-in to the simulation experience
  • Accept as real
  • Engage in debriefing (reflection on performance)

• **Maintain scenario confidentiality**
TYPES OF MANIKINS

Task trainers

• IV arms, Airway trainer, Torsos

Full Bodied Manikin - no chest rise or fall

• Nursing Kid, Nursing Anne, Sim Jr

Full Bodied Manikin - chest rise & fall & more

• SimMan 3G, SimMom, SimBaby, Victoria, Newborn Tory
SIMULATION SPECIFIC ASSESSMENT FEEDBACK

☐ Respiratory Rate

Auscultate to count

☐ No Response

☐ Assessing Movement

☐ POC Testing

Complete test as normal
Results will show on patient monitor

☐ Temperature

Use temperature probe as normal
Results will show on patient monitor
PATIENT MONITOR

**SpO₂ No Sensor**

**NBP No Cuff**

**Touch when cuff attached**

**HR** 130 50

**SpO₂** 107

**awRR** 30 8

**Tper** 101.0 79.0 70.0
INCLEMENT WEATHER POLICY

RADFORD
COOK HALL
CLINICAL SIMULATION CENTER

➢ Follow your SON closings/delays
➢ If your SON is open
   • Follow Radford University closings/delays
ADMISSION TICKETS

Learning Objectives

Patient Information and Demographics

Potential Skills

Medication List

Lab Work

Clinical Simulation Center
ADMISSION TICKETS

Must individually complete tickets to be admitted into simulation experience

Pathophysiology/Clinical Reasoning

Medication Administration Preparation

Lab Work Analysis and Procedure preparation

Admission tickets will be reviewed by simulation faculty prior to simulation activity. You must have the following documents complete to participate:

**Pathophysiology:**

1. Explain the pathophysiology of appendicitis in your own words. What are the complications associated with a ruptured appendix?
2. What are the most common causes and risk factors for appendicitis?
3. What potential problems is William Allison at risk for post-operatively?
4. Explain the difference between primary intention and secondary intention wound healing?

**Medications**

5. List the drug classes of the patient's medications (See medication list below).
   - Medication List: erapenem IV, enoxaparin SC, furosemide PO, K-Dur PO, promethazine IM/IV, kotelolac IM/IV, omeprazole PO
6. What is the mechanism of action of each medication?
7. Why do you think William Allison was prescribed each medication?
8. What physiological effects will these medications have on William Allison?
9. What side effects will you teach William Allison about before administering these medications?
10. For William Allison’s IV medications, answer the following questions:
    a. Do they need to be diluted?
    b. How fast should they be administered?
    c. Are they compatible with his IV fluids and other medications?

**Labs/Procedures**

11. Discuss abnormal findings from patient’s initial labs.
12. Review all of the “possible interventions” in the patient overview section. You are expected to read and make notes about these nursing actions/procedures and perform them during the simulation (with assistance as needed).
PRE/POST ENCOUNTER QUESTIONNAIRE

- **Pre-Encounter Questionnaires** are completed *prior* to the simulation experience.

- **Post-Encounter Questionnaires** are completed *post* simulation experience.

---

**Learner Pre-Encounter**

<table>
<thead>
<tr>
<th>Evaluator</th>
<th>Learner</th>
<th>Role</th>
</tr>
</thead>
</table>

**PRE ENCOUNTER**

1. **Assessment:** What components should be included in an abdominal open wound assessment? (Select all that apply)
   - Movement of extremities
   - Inspect (location, color, wound bed, wound edge)
   - Exudate (amount, color, odor)
   - Condition of surrounding skin for edema and temperature
   - Sensation of extremities
   - Measure size (length, width, depth)
   - Patient’s nutritional status

2. **A patient has an appendectomy following a ruptured appendix. During the post-op care, the nurse’s notes in this patient’s record should include documentation of:**
   - Teaching to prevent dumping syndrome and bed rest
   - Bed rest and shallow breathing exercises
   - Shallow breathing exercises and teaching a low-residue diet
   - Dressing changes, intake and output, bowel sounds and use of incentive spirometer

3. **How comfortable are you in managing a Jackson Pratt (JP) Drain?**
   - Able to perform independently
   - Able to perform with assistance
   - Not comfortable performing at this time
DocuCare is a simulated EHR utilized by the CSC. You will need to log in with your name and school.
Med/Surg Room
OB Room

Clinical Simulation Center
Pediatric Room
Intensive Care Room

Clinical Simulation Center
Mental Health
CONCLUSION

Thank you for your time! We look forward to meeting each of you and cannot wait to be part of your learning experience!

See you soon!