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Nebraska Rural Health Association


*Critical Access Hospital Nurses'
Simulating Experience*

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*Helen Weber Distinguished
Professor in Nursing Education*



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Simulation


- Utilized in academia, research, and practice to improve learning and patient care outcomes.
- Provides opportunities to apply knowledge and practice skills.
- Several types of simulation
 - Manikin
 - Standardized Patients
 - Task Trainers
 - Virtual Reality

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Challenges for Rural Hospitals

- **Fluctuating Obstetrical Census**
- **Low Birth Volumes**
- **Variable Opportunities to Practice Skills**
- **Nurses with Varying Obstetrical Expertise**
- **Need for Continuing Education**
- **Limited Simulation Experience**

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***Bryan Health:
Collaborative Team***


- **Bryan College of Health Sciences Administration**
 - Marilyn Moore EdD President
 - Kay Maize EdD, RN Provost
 - Marcia Kube EdD, RN, CNE Dean of Graduate Nursing
- **Bryan Health**
 - Margaret Woepfel MSN, RN
Rural Division Quality Officer-Clinical Research Liaison
- **Bryan Health Medical Center East Campus**
 - Wendy S. Muir BSN, RN
Director Women's and Children's Health
 - Kate Smid, BSN, RN
Nurse Manager, Labor and Delivery

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Research Study

- **Aim 1: Assess rural nurses' obstetrical knowledge, skills, and clinical judgment as demonstrated in a simulated clinical environment and measured by the performance checklist.**
- **Aim 2: Evaluate the impact of a simulation environment to reinforce rural nurses' obstetrical skills.**
- **Aim 3: Explore rural nurses' perception of simulation training as a continuing education opportunity.**

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Prebriefing Information


- [Simulation article](#)
- [National Institute of Child Health and Human Development \(NICHD\) 2008 Standard Terminology of Fetal Heart Rate Monitoring](#)
- [Preeclampsia article](#)
- [Shoulder Dystocia article](#)
- [American College of Obstetricians and Gynecologists \(ACOG\) Postpartum Hemorrhage Checklist](#)

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Simulation Model
Joyce, Weil, and Calhoun (2009)

- **Orientation**
- **Participant Training**
- **Simulation Operations**
- **Participant Debriefing**

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Participant Training: Prebriefing



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Participant Training:
“High-risk Obstetrical Scenario

A 30-year-old white female who arrives to Labor & Delivery experiencing painful uterine contractions. She is a Gravida 2 Para 1 with an EDC of _____.

Her contractions began at 0530 today and now are about every 5 – 6 minutes apart lasting 60 seconds.

She called her physician, who told her to come to Labor & Delivery to be evaluated.

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Simulation Operations:
Admission Assessment

Preeclampsia Performance Behaviors	Observed	Not Observed	Comments
Assess Vital Signs			
Interprets Electronic Fetal Monitor Tracing			
Assess Headache			
Blurry Vision			
Right Upper Outer Quadrant Pain			
Nausea/Vomiting			
Level of Consciousness (LOC)			
Assess Deep Tendon Reflexes			
Assess Clonus			
Assess Edema			
Assess Pain with Numerical Pain Scale			
Implements Seizure Precautions (dim lights; decrease stimulus)			
Therapeutic communication			
Communicates with Healthcare Team using SBAR Format			
Reports Labwork			

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'Simulation on a Shoestring'

- National League for Nursing: Simulation Innovation Resource Center Nursing "HomeGrown Simulation Solutions"
- PartoPants



<http://prontointernational.org/partopants-birth-simulator-z/>

- Your experiences and creativity!

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Conclusions

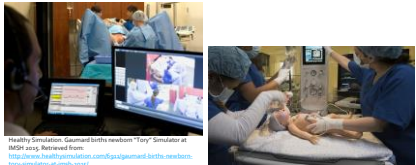
- Patient Simulation is a viable option for CAH nurses' continuing education.
- Patient Simulation provides CAH nurses' with opportunities to enhance skills and teamwork.

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What's New???

Gaumard's Newborn "Tony"



Healthy Simulation, Gaumard births newborn "Tony" simulator at IMSH 2015. Retrieved from: <http://www.healthsimulation.com/gaumard-birth-newborn-tony-simulator-at-imsb-2015/>

OSCN PR Newsline (2015). Gaumard Scientific to launch industry's most advanced newborn simulator, newborn Tony, at AWHONN 2015 conference. Retrieved from <http://www.oscn.org/press-releases/gaumard-scientific-to-launch-industrys-most-advanced-newborn-simulator-newborn-tony-at-awhonn-2015-conference-20150414.html>

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*“Bryan Health
Critical Access Hospital
Access Network
OB Simulation Experience”*



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*Questions
Thoughts
Comments*