



Virtual Simulation to Enhance Transition-to-Practice

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Immersive Learning for Healthcare Professionals™

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Agenda

- DISCOVER** Virtual Simulation as an academic solution.
- IDENTIFY** Virtual Simulations that meet varied academic needs.
- EXPLORE** Virtual Simulations that enhance nursing transition to practice.
- REVIEW** Virtual Simulation's impact upon nursing education.
- DISCUSS** Virtual Simulation needs and challenges.



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Academic Challenges

Solved

through

Virtual Simulation

- ✓ **Shrinking pool of training professionals:** Supply of qualified clinical educators, preceptors, trainers and mentors cannot meet demand due to an ongoing nursing and educator shortage; and exacerbated by the pandemic.
- ✓ **Concerns for patient safety:** Medical error is the third leading cause scenarios offer endless opportunities to practice vital clinical judgement skills in a risk-free setting.
- ✓ **Decreased budgets:** Cost-cutting is a growing priority for educators. Virtual simulations provide an affordable alternative to offsite options.
- ✓ **Effectiveness:** Numerous research papers have demonstrated that simulation-based training is directly linked to patient benefits when compared to both non-simulation-based training and instances where no intervention was given at all.
- ✓ **Accessibility:** Clinical site limitations as well as the accelerating closure of rural hospitals creates geographic boundaries can be alleviated in part through virtual simulations.

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Virtual Simulations for Varied Academic Needs



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Curriculum Key Standards & Criteria

Emphasizes **interprofessional communication.**

Prepares nurse for **leadership** roles.

Develops **clinical reasoning** skills.


Equips nurses to provide **culturally sensitive care.**

Provides **evidence-based** learning experience.


Empowers **delegation** and **prioritization.**

Focuses on **evaluation** and **outcomes.**

Optimizes **healthcare outcomes.**



Transition to Practice



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Key Standard: Leadership

Strong leaders communicate well, manage multiple tasks, individuals, and competing priorities. Virtual simulations empower participants to lead teams to achieve exemplary quality of care.


Virtual Simulation Tools that Develop Leaders

| ★ Nursing Quality Indicators | ★ Patient Management and Delegation | ★ Interprofessional Teams |
|---|---|--|
| <p><i>Consider how clinical decisions impact:</i></p> <ul style="list-style-type: none"> Structure Outcome Process Cost | <ul style="list-style-type: none"> Practice clinical judgement Set acuties Schedule Delegate Prioritize patient care | <ul style="list-style-type: none"> Establish critical values/ethics for interprofessional practice Determine roles & responsibilities Facilitate teamwork |

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- ✓ Review Electronic Medical Record, test results, and electronic imaging for each patient.
- ✓ Consider **structure, outcome, process,** and **cost** for each potential decision.
- ✓ Determine the best decision as it impacts quality of care, safety, and organizational factors.
- ✓ Review how each decision impacted patient outcomes and the healthcare organization.

Key Standard:
Clinical Reasoning & Performance Improvement

Outcomes:
 Acquire Skills in

**Clinical Judgement
 Decision Making
 Quality Improvement
 Safety**

★ **Nursing
 Quality Indicators**

As learners evaluate patients, they will immediately see how decisions impact structure, outcome, process, and cost.



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- ✓ Learners act as Charge Nurse to work with 56 patients.
- ✓ 5 levels of progressive complexity.
- ✓ Plan, coordinate and evaluate nursing resources while managing high levels of responsibility.
- ✓ Review how each decision impacts patient outcomes and the healthcare organization.

Key Standard:
Delegation & Prioritization

Outcomes:
 Sharpen Skills in

**Prioritization
 Delegation
 Management of Care
 Leadership
 Communication**

★ **Patient Management & Delegation**

Provides practice setting acuity levels, scheduling patients to nurses, delegating tasks to assistants, and prioritizing care.



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Key Standard:

Interprofessional Communication

Outcomes:

Acquire Skills in

**LEADERSHIP
COMMUNICATION
COLLABORATION**



Interprofessional Teams

Unfolding case study addresses physical and psychosocial issues of 9-year-old Jenny, over decades of her life.

- ✓ Practice and hone therapeutic communication skills.
- ✓ Select 5 interprofessional team members based upon appropriate scope of practice.
- ✓ Manage challenges and barriers within the team.
- ✓ Make decisions for positive team impact.
- ✓ Interact with 15 healthcare professionals throughout 5 modules.
- ✓ Modules begin with pre-brief and provide immediate feedback.

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Key Standard:

Prioritization

Outcomes:

Acquire Skills in

**ASSESSMENT
PRIORITIZATION
INTERVENTION**




Prioritization of Care

TEN Modules supporting Med/Surg . Geriatrics . Pediatrics . Obstetrics . Mental / Behavioral Health

- ✓ Review vitals and patient history, using SBAR format to chart observations.
- ✓ Select level of care and appropriate department.
- ✓ Develop rationale for prioritization of 5 unique groups of patients.
- ✓ Leverage EMR and additional patient information to prioritize 6 interventions.

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Key Standard:

Culturally Sensitive Care

Outcomes:


Acquire Skills in

COMMUNITY HEALTH


INFORMATION LITERACY

ADVOCACY

Meet a Sample of our Diverse Patients, Citizens, & Professionals



- ✓ Diverse patients, citizens, and professionals.
- ✓ 100+ sets of unique data and demographics.
- ✓ Virtual simulations for population-focused interventions, health policy, global community health, rural vs. urban care models, & more.
- ✓ Enables recognition of social determinants of health.




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Key Standard: Evidence-based Learning


Outcomes:

Acquire skills for

IMPROVING CLINICAL PRACTICE, WORK ENVIRONMENTS, and PATIENT OUTCOMES



- ✓ EBP guidelines introduced, implemented and reinforced using simulation.
- ✓ Research-based content supports learning objectives.
- ✓ Physical, conceptual, and psychological fidelity.
- ✓ International Nursing Association for Clinical Simulation and Learning (INACSL) Best Practices



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Key Standards: Evaluation and Outcomes

Virtual Simulation Curriculum and Learning Outcomes Aligned to Professional Standards, Guidelines and Competencies.



- ✓ American Association of Colleges of Nursing: BSN, MSN, and DNP Essentials
- ✓ Quality and Safety Education for Nurses (QSEN) Competencies
- ✓ National Council of State Boards of Nursing (NCSBN)

Professional Organizations:

- ✓ American Nurses Association (ANA)
- ✓ Interprofessional Collaborative Practice Core Competencies (IPT)
- ✓ American Academy of Ambulatory Care Nursing (AACN) (Telehealth)

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Virtual Simulation – Impact on Nursing Education

Immediate and Long-Term Solutions

Having provided more than **90,000 learner experiences** to date, *Sentinel U* keeps learners learning.

Sentinel U, offers “virtually” endless possibilities

Pediatrics . Mental/Behavioral Health . Maternal Health and OB . Geriatrics . Telehealth . Community . Med-Surg . Interprofessional Teams . Patient Management and Delegation . Nursing Quality Indicators

20 different sims over 250 patients



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Open Discussion

Virtua
I SIM
needs?

Virtual SIM
challenges?

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