

Appendix. Survey Questions

Which most closely matches your role:

- Chief Nurse Executive/Officer
- Nurse Director/Associate Director
- Nurse Manager
- Nurse Educator
- Charge Nurse
- Staff Nurse
- Infection Preventionist
- Nursing Student
- Other _____

How many years of experience do you have in nursing practice? (round to nearest whole number)

▼ < 1 ... > 40

What is your highest degree achieved?

- Associates
- Bachelors
- Masters
- Doctorate

Did you complete a nursing residency or fellowship?

- Yes
- No
- Currently completing a residency

In which state do you primarily work?

▼ Alabama ... I do not reside in the United States

Does your specific role cover one facility or a system of facilities?

- Single facility
- System of facilities (eg, IDN, system level role)

Skip To: Q11 If Does your specific role cover one facility or a system of facilities? = System of facilities (eg, IDN, system level role)

Which most closely matches your facility type?

- Academic medical center
- Community hospital
- Government hospital
- Critical access hospital
- Long term care facility
- Ambulatory care/clinic
- Other _____

What is your hospital bed size?

- < 100
- 101-300
- 301-500
- > 500
- Not applicable (ambulatory/clinic)

Please select the area(s) in which you mostly practice (if applicable):

- General Medicine - Adult
- Critical Care - Adult
- General Medicine - Pediatrics
- Critical Care - Pediatrics
- Cardiology
- Neurology
- Urology
- Surgical Medicine
- Emergency Medicine
- Infection Prevention/Control
- Oncology
- Transplant
- Surgical/Procedural (OR)
- Vascular Access Team
- Other: _____

Are any of the following nurse training methods offered at your organization? (select all that apply)

Simulation lab (without virtual/augmented reality)

Virtual reality (fully immersive experience - eg, wearing a headset to simulate a patient care experience)

Augmented reality (enhances real setting - eg, digital images displayed on mannequin)

When considering product and device training for **new nurse hires** (e.g., initial training and education), how **common** are the following training practices at your organization:

	Most commonly used	Sometimes used	Rarely used	Never used	I do not know
Preceptor shadowing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-learning (developed by health system)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-learning (provided by vendor)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reading materials (handouts, books, journals, guides)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Videos (without testing)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Simulation labs (without virtual or augmented reality)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Virtual reality (fully immersive experience - eg, wearing a headset to simulate a	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

patient care
experience)

Augmented
reality (enhances
real setting - eg,
digital images
displayed on
mannequin)

Other



When considering product and device training for **new nurse hires** (e.g., initial training and education), how **effective** are the following training practices:

	Highly effective	Somewhat effective	Not effective	I do not know
Preceptor shadowing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-learning (developed by health system)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-learning (provided by vendor)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reading materials (handouts, books, journals, guides)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Videos (without testing)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Simulation labs (without virtual or augmented reality)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Virtual reality (fully immersive experience - eg, wearing a headset to simulate a patient care experience)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Augmented reality (enhances real setting - eg, digital images displayed on	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

mannequin)

Other



When considering product and device training for **ongoing education** (e.g., annual competencies), how **common** are the following training practices at your organization:

	Most commonly used	Sometimes used	Rarely used	Never used	I do not know
Preceptor shadowing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-learning (developed by health system)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-learning (provided by vendor)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reading materials (handouts, books, journals, guides)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Videos (without testing)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Simulation labs (without virtual or augmented reality)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Virtual reality (fully immersive experience - eg, wearing a headset to simulate a	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

patient care
experience)

Augmented
reality (enhances
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mannequin)

Other



When considering product and device training for **ongoing education** (e.g., annual competencies), how **effective** are the following training practices:

	Highly effective	Somewhat effective	Not effective	I do not know
Preceptor shadowing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-learning (developed by health system)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E-learning (provided by vendor)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reading materials (handouts, books, journals, guides)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Videos (without testing)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Simulation labs (without virtual or augmented reality)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Virtual reality (fully immersive experience - eg, wearing a headset to simulate a patient care experience)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Augmented reality (enhances real setting - eg, digital images displayed on	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

mannequin)

Other



When considering training at your organization today, approximately how many hours do new nurse hires spend shadowing preceptors before practicing independently? (enter whole number only)

Are new nurse hires spending more or less time shadowing preceptors today than before the COVID pandemic?

- Significantly more time shadowing today
- Somewhat more time shadowing today
- No change in time spent shadowing
- Somewhat less time shadowing today
- Significantly less time shadowing today
- I do not know

When considering the following **urology** nursing skills and competencies, which do you believe have the greatest gaps in training today with regards to devices and products?

	Significant gap in training	Somewhat of a gap in training	No gap in training	I do not know
Indwelling urological drainage placement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
External urological drainage placement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Urological drainage maintenance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Urine specimen collection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

When considering the following **vascular** nursing skills and competencies, which do you believe have the greatest gaps in training today with regards to devices and products?

	Significant gap in training	Somewhat of a gap in training	No gap in training	I do not know
Peripheral vascular access placement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Peripheral vascular access management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Central vascular access management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Blood specimen collection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

When considering the following **medication management** nursing skills and competencies, which do you believe have the greatest gaps in training today with regards to devices and products?

	Significant gap in training	Somewhat of a gap in training	No gap in training	I do not know
Parenteral medication preparation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parenteral medication administration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hazardous drug administration and disposal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Infusion pump operations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Automated medication dispensing cabinet operations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

When considering the following **other** nursing skills and competencies, which do you believe have the greatest gaps in training today with regards to devices and products?

	Significant gap in training	Somewhat of a gap in training	No gap in training	I do not know
Physical assessment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Vital sign/hemodynamic monitoring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Skin disinfection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fluid status monitoring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Therapeutic temperature management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>