



Introducing Ohio Medical Corporation's

Safe Suction Advisory Care Program™

A Systematic Approach to Promoting Patient Safety

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Does your Hospital Meet Current Guidelines for Safe Suctioning?

Improperly set vacuum regulators can expose patients to vacuum pressures up to 15 times higher than recommended pressures for nasogastric or endotracheal suction procedures.¹ Higher than recommended pressures can cause suction-induced lung derecruitment and tear the delicate mucosal tissue in the stomach or trachea, leading to bleeding and potential infection.² Research indicates that the prevention of suction-induced lung derecruitment is more clinically relevant than reversal of Acute Lung Injury or Acute Respiratory Distress Syndrome (ARDS).³ Many clinicians, however, do not fully understand how they can help to prevent these complications through the proper use of vacuum regulators.

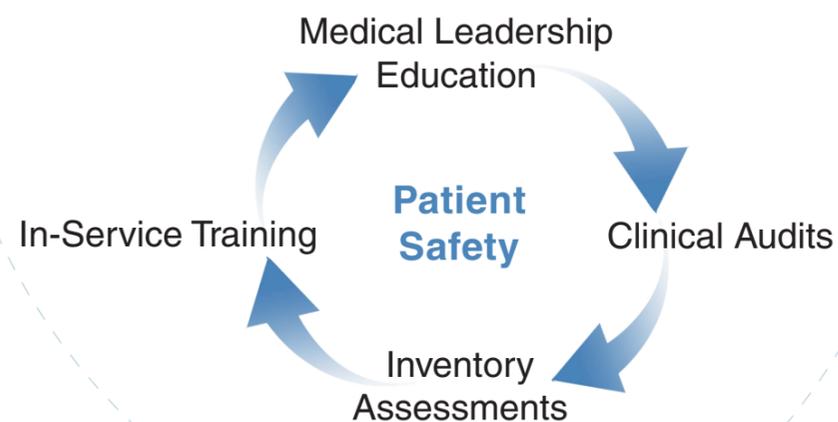
Ohio Medical's Safe Suction Advisory Care Program promotes patient safety by helping to ensure that everyone on your medical team – from medical leadership to front-line clinicians – understand the risks inherent in nasogastric and tracheal suctioning. It is a step-by-step approach that offers education, evaluation and training tools designed to align your hospital with guidelines established by the American Association For Respiratory Care®² and the National Fire Protection Association®.⁴

Supported by evidence-based documentation, the Safe Suction Advisory Care Program provides your managers and front-line clinicians with continuous support through:

- Medical Leadership Education
- Clinical Audits
- Inventory Assessments
- Comprehensive In-Service Training Kit

Safe Suction Advisory Care Program

A comprehensive analysis and educational program created for clinicians, physicians, quality managers and hospital staff.



Medical Leadership Education

Many hospitals are not fully aware of the potential risks patients face from endotracheal and nasogastric oversuctioning. Vacuum regulators can help to protect patients only if they are functioning properly and set correctly.

The Safe Suction Advisory Care Program helps your medical leadership team better understand the inherent risks in suctioning procedures and how these risks can be mitigated. Our flexible programming includes:

- On-site educational presentations
- A three-disc DVD series that demonstrates the importance of proper suctioning and equipment evaluation:
 - “The Importance of Standardization, Protection and Inspection in Vacuum Regulators”
 - “Avoiding the Hazards of Inadvertent Administration of High-Suction Pressures”
 - “Understanding the Hazards of Tracheal Oversuctioning”
- CEU and CME-certified classes for clinicians or physicians

Educational Video Series





Clinical Audit

Ohio Medical's clinical audit allows managers to assess whether clinicians are properly setting vacuum pressures for endotracheal or nasogastric suctioning. Department-by-department audits benchmark the hospital's performance against current educational standards and guidelines established by the American Association For Respiratory Care. The clinical audit tool provides managers with the information they need to determine whether education and/or new technology will best resolve the clinical issues identified in the audit.

Sample Locations	Naso-gastric	Endo-tracheal	Vacuum Level	Compliance	Non-Compliance
ICU	x	x	120mmHg	x	x
3 West (Rm 333)	x	x	Full Wall	x	x
ICU	x	x	Full Wall	x	x
ED	x	x	Non-Functioning	x	x
1 West (Rm 15)	x	x	Full Wall	x	x
ICU	x	x	120mmHg	x	x
ICU	x	x	Flowing	x	x
1 East (Rm 15)	x	x	Full Wall	x	x
2 North (Rm 222)	x	x	120mmHg	x	x

INSTRUCTIONS:
 Test A: Locate a patient that has an NG tube or an Endotracheal tube. For Endotracheal applications, turn regulator to "on", "kick or pinch" the suction tubing, and record regulator setting. For Nasogastric applications, turn regulator to intermediate, wait for regulator to cycle on, "kick or pinch" the suction tubing, and record regulator setting.
 Test B: Locate room without patient. Turn regulator to "on", "kick or pinch" the suction tubing, and record regulator setting.

RECOMMENDED PRESSURE GUIDELINES:
 Naso-gastric: 30-40 mmHg; Smeltzer, Suzanne, Brenda Barr, Janice Hinkle, Kerry Cheever, Brunner and Suddarth's Textbook of Medical Surgical Nursing, 12th edition, 2009, page 3022.
 Endo-tracheal: < 120 mmHg for adults and 80-100mmHg for neonatal and pediatric patients; AACN Clinical Practice Guidelines: "Tracheal Suctioning of Mechanically Ventilated Patients with Artificial Airway", July 2010.

OHIO MEDICAL REPRESENTATIVE
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HOSPITAL INFORMATION
 HOSPITAL NAME: Buffalo Grove Medical Center
 CITY / STATE: Buffalo Grove, IL

Inventory Assessment

Does your facility have enough vacuum regulators on-hand to meet emergencies or peak census? Are there too many regulators in one department and too few in another? Are the vacuum regulators functioning properly? Our comprehensive inventory assessment tool not only allows you to quantify the number of properly functioning regulators in each department, it also lets you assess your need for flowmeters. The proprietary, Excel®-based tool provides the criteria you need to determine if your facility meets the minimal inventory requirements for peak census or disasters. The software tool also helps you identify damaged or malfunctioning regulators that could cause patient injuries and allows your Ohio Medical representative to provide expert recommendations on regulators, safety traps and flowmeters.

Department	Regulator 1	Regulator 2	Regulator 3	Regulator 4	Regulator 5	Regulator 6	Regulator 7	Regulator 8	Regulator 9	Regulator 10
ICU	1	1	1	1	1	1	1	1	1	1
ED	1	1	1	1	1	1	1	1	1	1
3 West	1	1	1	1	1	1	1	1	1	1
1 West	1	1	1	1	1	1	1	1	1	1
2 North	1	1	1	1	1	1	1	1	1	1

Action	Met	Did Not Meet	Evaluator Initials	Comments/Plan of Action
1. Making Sure System is Connected to the Patient's Patient Safety System				
2. Ensuring Patient Safety System is in Place				
3. Ensuring Patient Safety System is in Place				
4. Ensuring Patient Safety System is in Place				
5. Ensuring Patient Safety System is in Place				
6. Ensuring Patient Safety System is in Place				
7. Ensuring Patient Safety System is in Place				
8. Ensuring Patient Safety System is in Place				
9. Ensuring Patient Safety System is in Place				
10. Ensuring Patient Safety System is in Place				



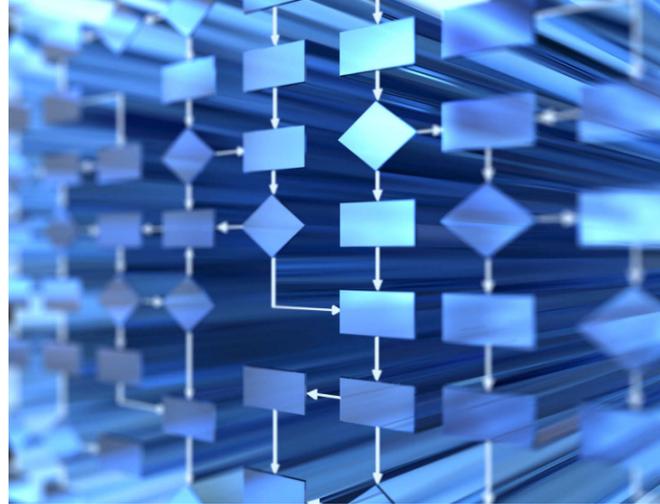
In-Service Training and Refresher Courses to Keep Patient Safety Top of Mind

Our in-service training supports both Ohio Medical's patented Push-to-Set™ Vacuum Regulator and the Amvex® Vacuum Regulator. It provides the information your clinicians need to minimize human error in this important patient safety issue.

We offer a full-range of in-service training materials for hospital employees while providing ongoing tools for newly acquired employees and strategies for annual training, including:

- A written Flow Guide demonstrating the proper setup, inspection and use of Ohio Medical and Amvex Vacuum Regulators
- A Competency Checklist that evaluates and provides real-time feedback to clinicians to help their understanding of the steps outlined in the Flow Guide
- A Competency Test for assessing clinician understanding of vacuum principles and the proper operation of vacuum regulators
- Ohio Medical/Amvex Vacuum Regulator In-Servicing DVD that can be added to your Intranet for training





Delivering “Firsts” in Patient Safety

For more than 70 years, Ohio Medical Corporation has been providing quality oxygen and suction therapy products to health care facilities worldwide. Our commitment to innovation and patient safety has changed the way clinicians deliver suction therapy to patients and brought about a number of “firsts”. Our Amvex regulator was the first patented solid-state, digital display vacuum regulator that does not require calibration to deliver precise suction readings for critical applications. Our patented Push-to-Set™ Vacuum Regulator was the first technology specifically designed to help reduce clinician error by automating a critical step in the suction procedure – the tube occlusion step necessary to ensure proper setting of maximum vacuum pressures.

Ohio Medical’s commitment to patient safety continues with our Suction Advisory Care Program, the first of its kind for vacuum regulators. The program enhances patient safety by complementing our technology with continuous education, training and evaluation while helping to ensure that your facility is aligned with current guidelines from the American Association For Respiratory Care and the National Fire Protection Association.

We look forward to working with you to provide the technology, education and training that can help you optimize patient safety during suctioning procedures.




Safe Suction Advisory Care Program

- Medical Leadership Education
- Clinical Audit and Inventory Assessment
- Comprehensive In-Service Training Kit



References

- ¹ “Nasogastric suctioning, per Smeltzer, Suzanne, Bare, Hinkle, Cheever, Brunner and Suddath’s “Medical-Surgical Nursing”: 12th edition (2009), indicates 30 – 40 mmHg
- ² American Association for Respiratory Care, “Endotracheal Suction of the Mechanically Ventilated Patient with Artificial Airways 2010,” *Respiratory Care*, June 2010, pp.758-64.
- ³ Salvatore M. Maggiore, Francois Lellouche, Jerome Pigeot, Solenne Taille, Nicolas Deye, Xavier Durrmeyer, Jean-Christophe Richard, Jordi Mancebo, Francois Lemaire, Laurent Brochard, “Prevention of Endotracheal Suctioning-induced Alveolar Derecruitment in Acute Lung Injury,” *American Journal of Respiratory and Critical Care Medicine*, February 2003.
- ⁴ National Fire Protection Association (NFPA99-2002) Health Care Facilities Handbook, pp. 497-498