UTGERS School of Nursing

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### **Introduction & Significance**

- Pulmonary aspiration is an anesthesia-related complication
- Incidence 1 in 2 4,000 operations
- Significant perioperative morbidity and mortality:
  - Acute respiratory distress



- Pneumonia
- Multiple organ dysfunction
- Mechanical ventilation
- Mortality 5-9%
- One case of aspiration pneumonia
- costs \$30,280
- Current ASA NPO Guidelines does not take into account many patient factors:
  - Emergent and urgent surgeries





- issues
- Cognitive impairment
- Pediatric population
- Patient may not be truthful
- Medical conditions that delay gastric
- emptying

Gastric ultrasound is a simple, noninvasive diagnostic tool to clinical evaluate the perioperative patient's aspiration risk

## Methodology

**AIMS:** Increase anesthesia provider's confidence and competency in identification of the gastric antrum's contents **PARTICIPANTS:** Rutgers University RRNAs & New Jersey Association of

Nurse Anesthetists anesthesia providers **SAMPLE:** 117 participants



**SETTING:** Virtual video platforms **MEASURES/INSTRUMENTS:** Pre- and post-intervention tests



# A Virtual Lecture with Hands-On Simulation of the Gastric Ultrasound Examination





Ginamarie Martucciello, BSN, RN, RRNA **DNP Team Member: Thomas Pallaria, DNP, APN, CRNA** 

95% Cl Upper)	95% Cl (Lower)	t	Critical t	df	<i>p</i> -value
85.92	73.42	54.83	4.30	2	0.00157
core was 12 67 The mean post-intervention score					

