

Special Studies

Prehospital Airway Control Trial (PACT) – 110.100

PURPOSE:

A stepped wedge, randomized, multi-center trial of prehospital trauma airway management comparing 24-hour survival following standard airway management compared to using a supraglottic airway on the first airway attempt.

INCLUSION CRITERIA:

Subjects must meet **ALL** the following:

- Transporting or intended transport to an enrolling LITES center (OHSU)
- Trauma requiring emergent airway (GCS < 8, SpO₂ < 90 despite supplemental oxygen, EtCO₂ > 60, or provider impression that the patient is unable to protect their airway)

EXCLUSION CRITERIA:

Subjects meeting **ANY** of the following:

- Known pregnancy
- Patients < 15 years of age
- Prisoners
- Initial advanced airway attempted by a non-PACT provider
- Caustic substance ingestion or airway burn
- Cardiac arrest without ROSC at the time of intervention

PROCEDURE:

- A. Only patients entered into the trauma system with an intended destination of OHSU are eligible.
- B. The first advanced airway attempt for patient's meeting the inclusion criteria will be whichever airway device the agency is currently randomized to.
- C. If the first attempt is unsuccessful, all subsequent attempts can be any other airway device at the discretion of the paramedic.
- D. Crews will follow all applicable protocols regarding induction and paralytic medications as well as for post intubation sedation and analgesia.
- E. Consider placement of an appropriately sized orogastric tube to prevent gastric distention.
- F. Key documentation points:
 1. All airway attempts and equipment used
 2. Use of oxygen, suctioning, adjuncts
 3. All medications
 4. Any complications/adverse events
 5. The Lot Number of the airway device (each agency will determine their own method for documenting the Lot Number)
 6. Notification of enrollment (each agency will determine their own process for this notification)

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NOTES & PRECAUTIONS:

- A. There is no limit to the number of ET, i-gel[®], or King Airway[®] attempts. After one failed study arm airway attempt, paramedics are permitted to use any rescue airway technique available to them on scene. Each airway attempt must be documented in the prehospital care report.
- B. An attempt is defined as:
 - 1. ET – blade is inserted into the mouth past teeth
 - 2. I-gel[®] or King Airway[®] passes the teeth
- C. Once an agency is randomized to the supraglottic arm of the trial, they will stay on that arm for the remainder of the study.