

Supplementary Online Content

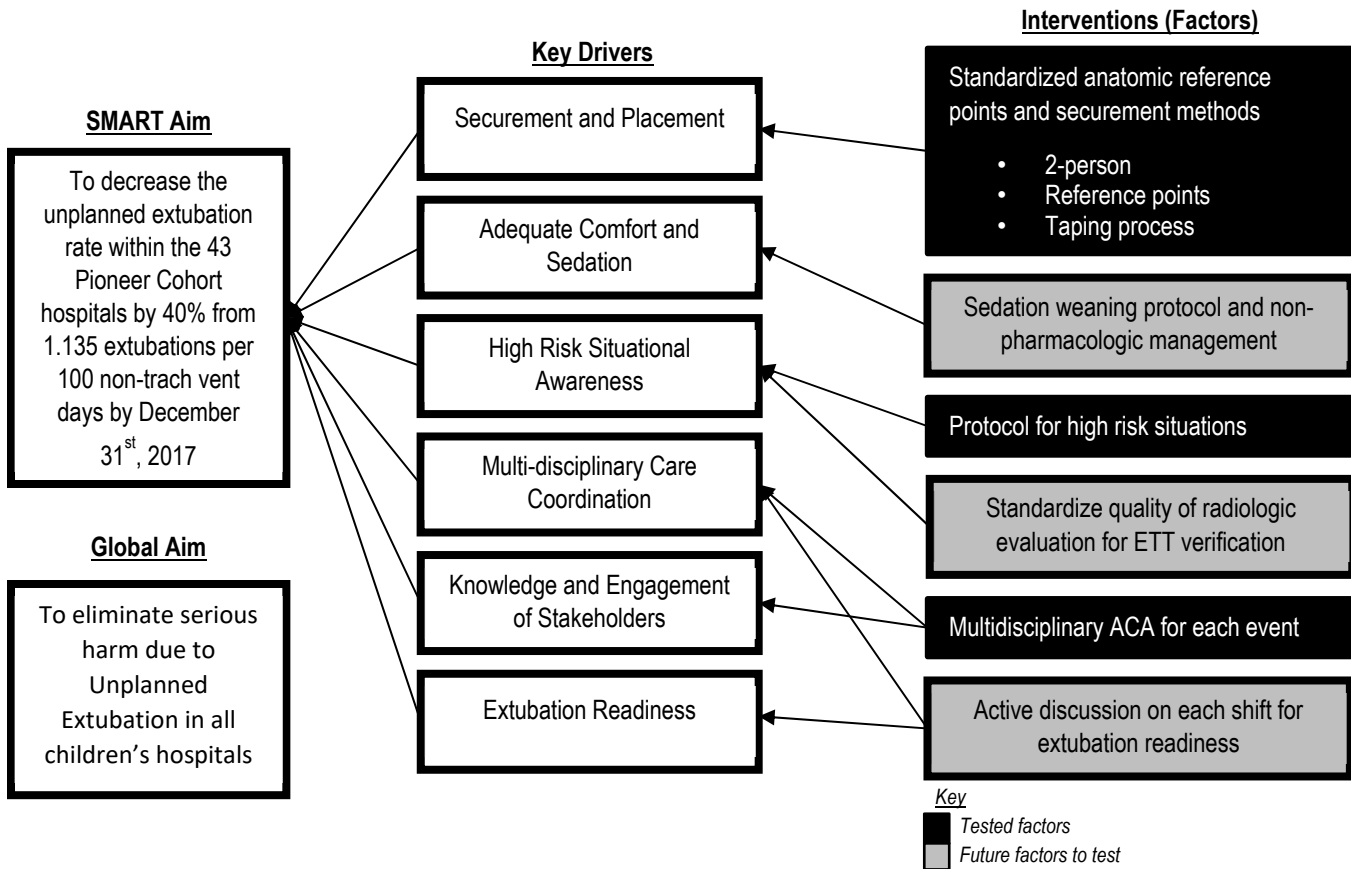
Klugman D, Melton K, Maynard PO, et al. Assessment of an unplanned extubation bundle to reduce unplanned extubations in critically ill neonates, infants, and children. *JAMA Pediatr*. Published online April 13, 2020. doi:10.1001/jamapediatrics.2020.0268

eAppendix 1. Unplanned extubations key driver diagram

eAppendix 2. Unplanned extubation real-time ACA event investigation

This supplementary material has been provided by the authors to give readers additional information about their work.

eAppendix 1. Unplanned extubations key driver diagram



eAppendix 2. Unplanned extubation real-time ACA event investigation

Date of UE event: _____

Was ACA captured in real-time? Yes No

Was event reviewed in one week? Yes No

Unit: NICU PICU CICU Other

Type of UE:

No reintubation within 1 hr

With reintubation within 1 hr

Other*

History of prior UE? Yes No

Airway/ETT:

Type of intubation Nasal Oral

HFV Yes No

Uncuffed/Cuffed

Uncuffed

Cuffed-Inflated

Cuffed-Deflated

Tape secure Yes No

ETT location

Corner of mouth

Center of mouth

Nasal

Inline (closed) suction apparatus present

Yes No N/A

Phase of treatment

Acute (care is escalating or static)

Weaning (patient is improving and ventilator settings are de-escalating)

Awaiting extubation

*With reintubation and cardiovascular collapse requiring CPR and/or bolus epinephrine within 1 hour.

Sedation

Sedation:

Continuous Scheduled PRN None

Agitation (inadequate pain control/agitation) Yes No

Staffing 1:1: 1:2 >1:2

Contributors to UE

	Yes	No
Inadequate restraints	<input type="checkbox"/>	<input type="checkbox"/>
Loose tape	<input type="checkbox"/>	<input type="checkbox"/>
Inadequate sedation	<input type="checkbox"/>	<input type="checkbox"/>
Inadequate staffing	<input type="checkbox"/>	<input type="checkbox"/>
Improper staffing handoff	<input type="checkbox"/>	<input type="checkbox"/>
Within 1 st hour of ICU admission	<input type="checkbox"/>	<input type="checkbox"/>

Other contributor: _____

Activities occurring at time of extubation

	Yes	No
Kangaroo care or parent hold	<input type="checkbox"/>	<input type="checkbox"/>
Radiology study (xray, U/S, echo, etc.)	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory treatment	<input type="checkbox"/>	<input type="checkbox"/>
ETT adjustment/Re-taping ETT	<input type="checkbox"/>	<input type="checkbox"/>
Weighing	<input type="checkbox"/>	<input type="checkbox"/>
Position change	<input type="checkbox"/>	<input type="checkbox"/>
Transport	<input type="checkbox"/>	<input type="checkbox"/>
Suctioning	<input type="checkbox"/>	<input type="checkbox"/>
<2 caregivers for positioning or suctioning	<input type="checkbox"/>	<input type="checkbox"/>
Bathing	<input type="checkbox"/>	<input type="checkbox"/>
Line placement	<input type="checkbox"/>	<input type="checkbox"/>
Blood draw	<input type="checkbox"/>	<input type="checkbox"/>
Other bedside invasive procedure	<input type="checkbox"/>	<input type="checkbox"/>

Other activity: _____

Results of UE event

	Yes	No
Arrhythmia	<input type="checkbox"/>	<input type="checkbox"/>
BP change required intervention	<input type="checkbox"/>	<input type="checkbox"/>
Need for increased vent support or FI02	<input type="checkbox"/>	<input type="checkbox"/>
Heart Rate <60 (verify in central monitor)	<input type="checkbox"/>	<input type="checkbox"/>
Chest compressions	<input type="checkbox"/>	<input type="checkbox"/>
Code medications given	<input type="checkbox"/>	<input type="checkbox"/>