EDICT Emergency Department Intubation ChecklisT

Preparation		<u> </u>								
Consider the indication for intubation		Is the pat	ient DNI	status?	(PAP/BiPAP)					
		\geq			d, if applicable					
Nasal cannula					t preoxygena uction to faci		oxygenation			
		\geq 3 min or	8 deep	breaths wit	h face mask;	O ₂ regulato	r turned all the way	y up		
Preoxygenate with high-flow oxygen		If inadequ	ate satu	ation with	NC+facemas	k: use NIV o	or BVM with PEEP on, preox, then par	valve		
Difficult laryngoscopy		-	-				, Obstruction, Necl	\rightarrow		
Difficult BVM		Beard, O	bese, No	teeth, Elde	erly, S leep Ap	nea / Snorin	ng			
Difficult extraglottic device Difficult cricothyrotomy							ay, S tiff lungs or c- ther deformity, T ur			
Dimodit oncourt oncourt		Congoly,	Iomaton							
Determine airway management strategy	Plan B/C/D: C	hange					m of page 2 for crid			
see bottom of page 2	patient position	, blade,	•				; mark membrane empt if anticipated	•		
for awake technique	modality or op	berator				unnuy un	empt il anticipatea			
RSI Prepare for failu	re					7	Supraglottic Air	wav		
vs. of intubation an			way mpt		Ventilate		•			
Awake failure of ventilati	on	alle					Cricothyroton	ny		
Awake approach preferred when Discuss plan A, B, C, D				Ba	ag/mask or L	MA	+			
Less urgent intubation Equipment for plan A, E More difficult airway features	3, C, D at bedside						Post-intubati	-		
Low risk of vomiting							managemei	nt		
Check for dentures		Dentures	in for ba	g mask ver	ntilation, out f	or laryngosc	ору			
							neck / occiput / sho	oulders)		
Position patient				•	ower sternum		;)** y and upper GI ble	ed		
		ECG								
Monitoring equipment		Pulse oxir	netry							
	_	Blood pre		idal canno	aranhy - vo	rify function	with test breath			
U IV access		Two lines								
	-	,				· ~,				
Equipment		·			in pediatrics					
Ambu bag connected to oxygen		-		nasal bridg	ge, malar emi	nences, alve	eolar ridge / Err lar	ger_)		
			• At least two							
Suction under patient's shoulder - verify function		 If suspected soiled airway (blood, vomitus, secretions), suction under each shoulder Curved and straight (One size larger, one size smaller) 								
Laryngoscopy blades - verify bulbs		 Curved and straight / One size larger, one size smaller Size: Angle of mouth to tragus of ear (usually 80, 90, or 100 mm in adults) 								
 Oral airways Nasal airways 								<u> </u>		
Colorimetric capnometer		 Size: Tip of nose to tragus of ear (usually 26 Fr/6.5 mm, 28/7, or 30/7.5 in adults) To be used if continuous not available or not functioning 								
Endotracheal tubes - verify cuff function		(Variety of sizes (≥ 8.0 mm preferred in adults to facilitate ICU care)								
ETT stylet		\geq)					
		Straight to cuff, 35 degrees** Tape if no device available								
Gum elastic bougie		(
LMA with lubricant and syringe										
 Difficult airway equipment 					aryngoscope					
		fiberoptic	scope / N	lagill force	ps if suspecte	ed foreign bo	bdy			
Drugs		Pretreatm	ent agen	ts are alwa	ays optional			!		
Pretreatment agents, if applicable							entanyl, which sho ver 30-60 seconds			
Fentanyl		3 mcg/kg	TBW if hi	gh BP a co	oncern (aneu	rysms, disse	ections, high ICP, s	evere CAD)		
Lidocaine		(1.5 mg/kg	TBW for	reactive a	irways or inci	eased ICP)			
Atropine					ng, max 1 mg			pg. 1		
Allophie		For infants	s, especi	ally if recei	ving succinyle	choline		P.9. 1		

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 Induction agent Paralytic agent Normal saline flushes Phenylephrine 	Etomidate 0.3 mg/kg TBW Propofol 1.5 - 3 mg/kg IBW+(.4)(TBW) Ketamine 2 mg/kg IV or 4 mg/kg IM IBW Midazolam 0.2 - 0.3 mg/kg TBW Thiopental 3- 6 mg/kg TBW Succinylcholine 2 mg/kg IV 4 mg/kg IM TBW Rocuronium 1.2 mg/kg IBW Vecuronium 0.3 mg/kg IBW if roc unavailable For peri-intubation hypotension 100 mcg IV push as needed						
Post-intubation settings discussed	A/C FiO2 100% – titrate down over time to SpO2 95% RR 18 [Asthma/COPD: 6-10] TV 8 mL/kg – use ideal body weight [6 mL/kg if sepsis / prone to lung injury] I/E 1:2 [Asthma/COPD 1:4 - 1:5] Inspiratory Flow Rate 60-80 L/min [Asthma/COPD 80-100 L/min] PEEP 5 cm H ₂ 0 [CHF 6-12→watch blood pressure] [PEEP 0 in Asthma/COPD]						
Personnel	(MD / RN / RT						
Verify tube placement Post-Intubation Care	End-tidal CO2 if using colorimetric – bright yellow with six breaths Esophageal detection device should aspirate without resistence if ETT in trachea Bougie hold-up test - see below Repeat visualization using direct laryngoscopy or alternate device Auscultation						
	Record position at lips A duba constant of the second sec						
	Aduits: approx 21 cm (remaie) or 23 cm (male) reassess frequently and						
Orogastric or nasogastric tube	Fentanyl 2 mcg/kg bolus then 1 mcg/kg/hour Morphine 0.1 mg/kg bolus then 15 mcg/kg/min Propofol 0.5 mg/kg bolus then 15 mcg/kg/min						
Portable chest radiograph							
Opioid then sedative boluses/drips	Midazolam 0.05 mg/kg bolus then .025 mg/kg/hour Lorazepam 0.04 mg/kg bolus then .02 mg/kg/hour Ketamine 1 mg/kg bolus then 1 mg/kg/hour						
□ Head of bed to 30-45 degrees, higher if very obese							
	Adjust to minimum pressure required to Adjust to minimum pressure required to Adjust to -4 to -5. In the stable on the						
Adjust ETT cuff pressure	abolish air leak - usually 15-25 mm Hg by endotracheal tube cuff manometer sedation and use opioi						
In-line heat-moisture exchanger	Adjust RR (not TV) to appropriate pH and pCO2						
Blood gas within 30 minutes post-intubation	Keep pH > 7.1 for permissive hypercapnia Use incremental FiO2/PEEP chart for oxygenation Fentanyl and ketamine are						
Foley catheter	Keep plateau pressure < 30 cm H20 pCO2 is at least ETCO2 but may be much higher						
	†Richmond Agitation Sedation Scale						
	Dislodgement – check EtCO2 waveform, repeat laryngoscopy Obstruction – check for high PIP, suction secretions Pneumothorax – breath sounds / lung sliding on ultrasound, repeat CXR Equipment failure – disconnect from vent and bag						
U Watch for post-intubation complications	Stacking breaths / auto-PEEP - bag slowly, push on chest to assist prn						
Uverify that airway equipment is ready for the next patient	Bougie hold-up test : gently advance intubating stylet through ETT No resistance @ 40 cm: likely esophageal Resistance @ 26-40 cm (usually <30 cm): likely tracheal and patent Resistance @ less than 25 cm: likely clogged tube						
Awake Intubation Technique Glycopyrolate 0.2 mg or Atropine .01 mg/kg glyco preferred, ideally given Suction then pad dry mouth with gauze Nebulized Lidocaine without epi @ 5 lpm ideally 4 cc of 4% lidocaine but of Atomized Lidocaine sprayed to oropharynx especially if unable to give full Viscous Lidocaine lollipop 2% viscous lido on tongue depressor Preoxygenate Position Restrain prn Switch to nasal cannula Lightly sedate with Versed 2-4 mg or Ketamine 20 mg aliquots q 2 min	2. Blind horizontal incision through membrane 3. Blind finger through membrane into trachea 4. Paulie along finger into trachea						

Intubate awake or place bougie, then paralyze, then pass tube

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*From Walls RM and Murphy MF: Manual of Emergency Airway Management. Philadelphia, Lippincott, Williams and Wilkins, 3rd edition, 2008; with permission. **From Levitan RM: Airway•Cam Pocket Guide to Intubation. Exton, PA, Apple Press, 2005; with permission.