Rapid Sequence Intubation Checklist

New Hampshire Bureau of EMS

Patient Preparation

- ☐ **Preoxygenate**
  NC 15 lpm + NRB/CPAP/BVM
- ☐ **Hemodynamics**
  - -IV fluids
  - -Vasopressors
- ☐ **Positioning**
  - -Ear to sternal notch
  - -Ramp
  - -Open collar
- ☐ **Apneic Oxygenation**
- ☐ **Monitoring**
  - -SpO_2 – opposite of BP
  - -EKG
  - -BP – cycle q 5 mins
  - -$ETCO_2$

Considerations

Hemodynamics
- -Risk for hypotension?
- -Shock index

Oxygenation
- -Risk for desaturation?
- -Set SpO_2 limit

pH
- -Metabolic considerations?

Verbalize Airway Plan

Setup

- ☐ Laryngoscope(s)
- ☐ ETT(s) + syringe
- ☐ Bougie
- ☐ Stylette
- ☐ Suction(s)
- ☐ BVM w/ PEEP
- ☐ $ETCO_2$
- ☐ Supraglottic
- ☐ Surgical
- ☐ Medications:
  - -Premedication
  - -Induction
  - -Paralytic
  - -Post-Intubation
  - -Fluids/pressors

Post-Intubation

- ☐ **Confirm Placement**
  - -Waveform $ETCO_2$
  - -Lung sounds
  - -Epigastric sounds
- ☐ **Secure ETT**
- ☐ **Fentanyl**
- ☐ **Sedation**
- ☐ **Consider Paralysis**
- ☐ **OG/NG Tube**
- ☐ **Sit Patient Up**
  - -If not contraindicated
- ☐ **Reassess**

Airway Procedure Algorithm

1st Laryngoscopy
-Optimize attempt

↓

2nd Laryngoscopy
-With new strategy

↓

Supraglottic airway

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Surgical airway

Optimal Laryngoscopy:

- Preoxygenation/ApOx
- Ear to sternal notch/ramp
- Adequate sedation/paralysis
- Direct video laryngoscope (DVL)
- Insertion -> Epiglottoscopy -> Valleculoscopy -> Laryngoscopy
- Bougie
- External laryngeal manipulation
- Head elevation
- Jaw thrust
- Mac as a Miller

Premedication
(when indicated)
Fentanyl
1-3 mcg/kg IBW

Induction
Ketamine
2 mg/kg IBW IV
4 mg/kg IBW IM (DSI)

Etomidate
0.3 mg/kg IBW, max 30 mg

Paralysis
Rocuronium
1.0 mg/kg IBW

Succinylcholine
1.5 mg/kg ABW, max 150 mg

Vecuronium
0.1 mg/kg IBW (ongoing only)

Post-Intubation
Ketamine **Option 1**
2-5 mg/kg/hr infusion OR
1 mg/kg q 5-15 mins

Fentanyl **Option 2**
50-100 mcg q 5-10 mins
AND
Midazolam (IBW)
Infusion: 5-30 mg/hour OR
2-5 mg as needed **OR**
Lorazepam
1-2 mg q 15 mins

Vasopressors
Norepinephrine
Infusion: 1-30 mcg/min
Epinephrine
Infusion: 2-10 mcg/min
Push dose:

- 1 mg of 0.1 mg/mL in 9 mL saline and mix vigorously
- Administer 5-20 mcg (0.5 - 2.0 mL) as needed

Shock Index = HR/SBP (>0.8 high risk for hypotension)

Ideal Body Weight (kg

Height	Male	Female
5'	50	4
5'1"	52	5
5'2"	55	5
5'3"	57	5
5'4"	59	5
5'5"	62	5
5'6"	64	5
5'7"	66	6
5'8"	68	6
5'9"	71	6
5'10"	73	6
5'11"	75	6
6'	78	6
6'1"	80	7
6'2"	82	7
6'3"	85	7
6'4"	87	7

Delayed Sequence

1. Ketamine
2. Preoxygenate and prepare
3. Paralytic
4. Intubation

RSI Medication Dose Chart

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Determine patient's height for these medications

FEMALE		Premedication	Induction		Paralysis	
		Fentanyl	Ketamine	Etomidate	Rocuronium	Vecuronium
Height	**IBW**	1-3 mcg/kg IBW	2 mg/kg IBW	0.3 mg/kg IBW	1 mg/kg IBW	0.1 mg/kg IBW
5'	49 kg	49-147 mcg	98 mg	14.7 mg	49 mg	4.9 mg
5'1"	51 kg	51-152 mcg	102 mg	15.3 mg	51 mg	5.1 mg
5'2"	52 kg	52-156 mcg	104 mg	15.6 mg	52 mg	5.2 mg
5'3"	54 kg	54-162 mcg	108 mg	16.2 mg	54 mg	5.4 mg
5'4"	56 kg	56-168 mcg	112 mg	16.8 mg	56 mg	5.6 mg
5'5"	58 kg	58-174 mcg	116 mg	17.4 mg	58 mg	5.8 mg
5'6"	59 kg	59-177 mcg	118 mg	17.7 mg	59 mg	5.9 mg
5'7"	61 kg	61-183 mcg	122 mg	18.3 mg	61 mg	6.1 mg
5'8"	63 kg	63-189 mcg	126 mg	18.9 mg	63 mg	6.3 mg
5'9"	64 kg	64-192 mcg	128 mg	19.2 mg	64 mg	6.4 mg
5'10"	66 kg	66-198 mcg	132 mg	19.8 mg	66 mg	6.6 mg
5'11"	68 kg	68-204 mcg	136 mg	20.4 mg	68 mg	6.8 mg
6'	69 kg	69-207 mcg	138 mg	20.7 mg	69 mg	6.9 mg
6'1"	71 kg	71-213 mcg	142 mg	21.3 mg	71 mg	7.1 mg
6'2"	73 kg	73-219 mcg	146 mg	21.9 mg	73 mg	7.3 mg
6'3"	75 kg	75-225 mcg	150 mg	22.5 mg	75 mg	7.5 mg
6'4"	76 kg	76-228 mcg	152 mg	22.8 mg	76 mg	7.6 mg

Determine patient's body weight for succinylcholine

Paralysis	
Succinylcholine	
1.5 mg/kg ABW	
50 kg	75 mg
55 kg	82.5 mg
60 kg	90 mg
65 kg	97.5 mg
70 kg	105 mg
75 kg	112.5 mg
80 kg	120 mg
85 kg	127.5 mg
90 kg	135 mg
95 kg	142.5 mg
100 kg	150 mg
>100 kg	150 mg

*Reduce induction agent dose by half in shock

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RSI Medication Dose Chart

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Determine patient's height for these medications

MALE		Premedication	Induction		Paralysis	
		Fentanyl	Ketamine	Etomidate	Rocuronium	Vecuronium
Height	**IBW**	1-3 mcg/kg IBW	2 mg/kg IBW	0.3 mg/kg IBW	1 mg/kg IBW	0.1 mg/kg IBW
5'	50 kg	50-150 mcg	100 mg	15 mg	50 mg	5 mg
5'1"	52 kg	52-156 mcg	104 mg	15.6 mg	52 mg	5.2 mg
5'2"	55 kg	55-165 mcg	110 mg	16.5 mg	55 mg	5.5 mg
5'3"	57 kg	57-171 mcg	114 mg	17.1 mg	57 mg	5.7 mg
5'4"	59 kg	59-177 mcg	118 mg	17.7 mg	59 mg	5.9 mg
5'5"	62 kg	62-186 mcg	124 mg	18.6 mg	62 mg	6.2 mg
5'6"	64 kg	64-192 mcg	128 mg	19.2 mg	64 mg	6.4 mg
5'7"	66 kg	66-198 mcg	132 mg	19.8 mg	66 mg	6.6 mg
5'8"	68 kg	68-204 mcg	136 mg	20.4 mg	68 mg	6.8 mg
5'9"	71 kg	71-213 mcg	142 mg	21.3 mg	71 mg	7.1 mg
5'10"	73 kg	73-219 mcg	146 mg	21.9 mg	73 mg	7.3 mg
5'11"	75 kg	75-225 mcg	150 mg	22.5 mg	75 mg	7.5 mg
6'	78 kg	78-234 mcg	156 mg	23.4 mg	78 mg	7.8 mg
6'1"	80 kg	80-240 mcg	160 mg	24 mg	80 mg	8.0 mg
6'2"	82 kg	82-246 mcg	164 mg	24.6 mg	82 mg	8.2 mg
6'3"	85 kg	85-255 mcg	170 mg	25.5 mg	85 mg	8.5 mg
6'4"	87 kg	87-261 mcg	174 mg	26.1 mg	87 mg	8.7 mg

Determine patient's body weight for succinylcholine

Paralysis	
Succinylcholine	
1.5 mg/kg ABW	
50 kg	75 mg
55 kg	82.5 mg
60 kg	90 mg
65 kg	97.5 mg
70 kg	105 mg
75 kg	112.5 mg
80 kg	120 mg
85 kg	127.5 mg
90 kg	135 mg
95 kg	142.5 mg
100 kg	150 mg
>100 kg	150 mg

*Reduce induction agent dose by half in shock

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