## Provincial Equipment Standards for Ontario Ambulance Services

Version 3.5
Comes into force April 8, 2020

**Emergency Health Regulatory and Accountability Branch Ministry of Health** 



To all users of this publication:

The information contained in this standard has been carefully compiled and is believed to be accurate at date of publication.

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#### **Document Control**

Version Number	Date of Issue	Comes into Force Date	Brief Description of Change
2.1	N/A	November 2013	Existing document
2.2	Retired	Retired	Retired
2.3	April 20, 2015	February 1, 2016	Finalized version 2.3
3.0	October 2016	N/A (amended prior to in force date)	See accompanying Summary of Changes
3.1	October 2016	December 11, 2017	Version 3.0 with the equipment considerations required for BLS PCS v3.0
3.2	July 2017	N/A (amended prior to in force date)	Amends 3.0. See accompanying Summary of Changes
3.3	July 2017	December 11, 2017	Amends 3.1. See accompanying Summary of Changes
3.4	April 2018	May 1, 2018	Minor wording revisions, re-organization of equipment lists, update to listing of ASA and addition of fentanyl and ketamine to the auxiliary medication list. See accompanying Summary of Changes

Version Number	Date of Issue	Comes into Force Date	Brief Description of Change
3.5	April 8, 2020	April 8, 2020	Minor wording revisions and update to Ministry of Health name/logo. Removed all non-patient care equipment already covered under the <i>Occupational Health and Safety Act</i> . Diphenhydramine moved to Symptom Relief Medications and Equipment (No. 400). Added additional language regarding CMOH directives.

## **Table of Contents**

Preamble	8
Preface	1
Scope of the Standards	
General Requirements for Equipment	2
Modifications	3
Equipment Testing and Maintenance	3
Equipment Manuals	
Materials	
Commonly Used Abbreviations	
Definitions	6
Part A – Land Ambulance/ERV Equipment	7
List 1 – Land Ambulance/ERV Accessory Equipment	8
List 2 – Primary Care Paramedic Land Ambulance Equipment and Medication	
List 3 – Primary Care Paramedic ERV Equipment	13
List 4 – Advanced Care Paramedic Land Ambulance/ERV Equipment and Medication	14
List 5 – Land Ambulance Auxiliary Equipment and Medication	17
Part B – Equipment Standards	21
Airway, Nasopharyngeal - No. 005	22
Airway, Oropharyngeal - No. 010	23
Arterial Tourniquet - No. 011	24
Atomization Device, Intranasal - No. 012	25
Bag-Valve-Mask Resuscitator, Adult - No. 015	26
Bag-Valve-Mask Resuscitator, Pediatric - No. 020	28
Blood Pressure Cuff/Manometer (Manual), Adult - No. 025	30
Blood Pressure Cuff/Manometer (Manual), Pediatric - No. 030	31
Burn Kit - No. 035	32
Cardiac Monitor/Defibrillator and Patient Monitoring Devices (ACP) - No. 040	33
Cardiac Monitor/Defibrillator and Patient Monitoring Devices (PCP) - No. 045	
Cardiac Monitor/Defibrillator, Defibrillation Pads - No. 050	35
Cardiac Monitor/Defibrillator, ECG Cable - No. 055	
Cardiac Monitor/Defibrillator, ECG Monitoring Electrodes - No. 060	
Cervical Collar - No. 070	
Chest Drain Valve - No. 075	
Cot Lift Assist - No. 080	40

Cot, Lift-in - No. 085	41
Coveralls/Gowns, Disposable - No. 090	
Dressing, Hemostatic - No. 092	
Endotracheal Tube – Oral - No. 095	
Endotracheal Tube, Extender Device - No. 100	45
Endotracheal Tube, Securing Device - No. 105	
Endotracheal Tube, Stylette - No. 110	
Eyewear, Protective (Safety) - No. 115	48
Face Shield - No. 120	49
First Response Kit - No. 125	50
Gloves, Non-sterile - No. 130	52
Gloves, Sterile - No. 140	53
Glucometer - No. 145	
Hand Rub, Antiseptic - No. 150	55
Hydrophobic Submicron Filter - No. 160	56
Infant Restraint Device - No. 165	57
Intraosseous (IO) Needle - No. 170	58
Intravenous Catheter - No. 175	
Intravenous Drip Tubing - No. 180	60
Intravenous Drip Tubing, Pediatric - No. 181	61
Intravenous Pressure Infuser - No. 185	62
Intravenous Solution (0.9% Sodium Chloride) - No. 190	63
Irrigation Fluid - No. 195	
Laryngoscope, Handle & Blades - No. 200	65
Lifting Chair - No. 205	
Lifting Chair, Restraining Straps - No. 210	67
Magill Forceps - No. 215	68
Mass Casualty Incident Kit - No. 220	
Metered Dose Inhaler (MDI) Aerosolization Adapter - No. 225	70
Metered Dose Inhaler (MDI), Valved Holding Chamber - No. 230	71
Nebulized Medication Delivery Mask - No. 235	
Needles - No. 240	73
Obstetrical Kit - No. 245	74
Oxygen Cylinder, Portable - No. 247	75
Oxygen Cylinder(s), Vehicle - No. 248	76
Oxygen Flowmeter, Vehicle - No. 250	
Oxygen Mask, Adult High Concentration - No. 255	
Oxygen Mask, High Concentration/Low Flow - No. 260	
Oxygen Mask, Pediatric Simple - No. 265	
Oxygen Nasal Cannula - No. 270	
Oxygen Pressure Regulator, First Response Kit - No. 275	
Oxygen Pressure Regulator, Vehicle - No. 280	
Oxygen Supply Tubing - No. 285	
Particulate Respirator Mask - No. 290	
•	

Qualitative End-Tidal CO <sub>2</sub> Detector - No. 295	86
Restraining Straps, Cot - No. 300	87
Restraining Straps, Adjustable Break-away Stretcher & Spinal Board - No. 305	88
Resuscitation Mask, Adult - No. 310	
Resuscitation Mask, Pediatric - No. 315	90
Sharps Container - No. 320.	91
Spinal Board, Quick Connect - No. 325	92
Spinal Immobilization Extrication Device - No. 330	
Splint, Multi-purpose/Malleable - No. 335	
Splint, Traction - No. 340	95
Stretcher, Adjustable Break-away - No. 345	96
Stretcher, Portable - No. 355	97
Suction Catheter - No. 360.	98
Suction Tip, Wide Bore (Oral) - No. 365	99
Suction Tip, Yankeur - No. 370	100
Suction Unit, Collection Container (Vehicle) - No. 375	101
Suction Unit, Hand Operated - No. 380	102
Suction Unit, Portable Electric - No. 385	103
Suction Unit, Tubing - No. 390	105
Suction Unit, Vehicle - No. 395	106
Symptom Relief Medications and Equipment - No. 400	107
Syringe, Medical - No. 405	109
Thermometer - No. 406	110
Thoracostomy Device - No. 410	111
Part C – Auxiliary Equipment Standards	112
Continuous Positive Airway Pressure Unit - No. A-910	113
Endotracheal Tube – Nasal - No. A-912	
Meconium Aspirator Adapter (Endotracheal Tube) - No. A-915	
Restraining Straps, Folding Stretcher - No. A-918	
Stretcher, Folding - No. A-920	

## **Provincial Equipment Standards for Ontario Ambulance Services**

Version 3.5

### **Preamble**



#### **Preamble**

### **Preface**

<u>Part A</u> of this document contains the following equipment lists:

- <u>List 1 Land Ambulance/ERV Accessory Equipment</u>
   <u>List 1(a) Land Ambulance Accessory Equipment</u>
   List 1(b) ERV Accessory Equipment
- 2. List 2 Primary Care Paramedic Land Ambulance Equipment and Medication
- 3. <u>List 3 Primary Care Paramedic ERV Equipment</u>
  <u>List 3(a) ERV Responder Equipment and Medication</u>
  List 3(b) ERV Support/Command Equipment
- 4. List 4 Advanced Care Paramedic Land Ambulance/ERV Equipment and Medication
- 5. List 5 Land Ambulance Auxiliary Equipment and Medication

Lists 1 - 4 specify the minimum quantities of each piece of equipment that are required to be carried on a land ambulance or emergency response vehicle to provide care for a **minimum of two (2) patients**, and to transport a **minimum of one (1) patient**. The lists also identify standards that apply to specific equipment items. Where a standard has been developed by Emergency Health Regulatory and Accountability Branch (EHRAB), the applicable EHRAB Equipment Standards Reference Number has been provided. The lists, in some cases, reference standards developed by an external organization. In such cases, the equipment identified shall meet or exceed these referenced standards.

<u>Part B</u> and  $\underline{C}$  of this document contain the actual equipment standards for those items in <u>Part A</u> identified as having to meet minimum standards developed by EHRAB.

## Scope of the Standards

- 1. The *Provincial Equipment Standards for Ontario Ambulance Services* describe, where established, the acceptable minimum requirements for medical and accessory equipment required to be carried in land ambulances and Emergency Response Vehicles (ERVs) for use in the Province of Ontario. These minimum requirements reflect current pre-hospital care practices in Ontario. Their purpose is to ensure that:
  - a. equipment is consistent with current patient care standards as established by the Ministry of Health (MOH), EHRAB;
  - b. a uniform level of patient care is provided throughout the province;
  - c. equipment meets current medical standards and practices; and
  - d. equipment is compatible for use in an ambulance or ERV that meets the current standards for those vehicles in Ontario.

- 2. Equipment lists found in Part A of the Provincial Equipment Standards for Ontario Ambulance Services describe the minimum quantities of medical and accessory equipment to be carried for use in land ambulances and ERVs in the Province of Ontario. Ambulance service operators may determine the location where the equipment is stored in an ambulance or ERV to meet their operational and patient care needs, except in cases where the quantity and location of the equipment has been described in a specific standard.
- 3. Each ambulance service operator may determine the appropriateness of disposable versus non-disposable medical and accessory equipment when selecting equipment; however, the equipment selected and carried shall meet any applicable standards.
- 4. Each ambulance operator may determine the appropriateness of personal issue equipment to their staff in lieu of stocking the equipment in an ambulance or ERV. All equipment provided to staff as personal issue shall meet any applicable standards indicated in this document.
- 5. The minimum quantities of medical and accessory equipment are intended to ensure that each type of ambulance has adequate inventory to provide typical patient care for a minimum of two (2) patients.
- 6. An ambulance service operator is fully responsible for any equipment carried on an ambulance or ERV, including any equipment that is not contained in the lists set out in Part A. This responsibility will include:
  - a. the cost of acquiring and maintaining the equipment;
  - b. ensuring that the use of the equipment is within the scope of practice of the staff using the equipment;
  - c. ensuring that their staff are adequately trained in the use of the equipment;
  - d. the cost of providing any necessary training to their staff; and
  - e. ensuring that the equipment is safely stored in the ambulance or ERV.
- 7. If a directive issued by Ontario's Chief Medical Officer of Health under the Health Protection and Promotion Act (HPPA), R.S.O. 1990, c. H.7, contains equipment requirements that differ or are not otherwise set out in these standards, each ambulance service operator shall ensure that equipment is made available to staff.

## General Requirements for Equipment

- 1. Ambulance service operators are responsible to ensure that all medical and accessory equipment purchased for use on an ambulance or ERV are approved or licensed by Health Canada for sale in Canada, where applicable.
- 2. All equipment carried in an ambulance or ERV shall comply with any applicable Acts, regulations and standards.
- 3. The installation of the equipment in an ambulance or emergency response vehicle shall:
  - a. promote the safety of paramedics utilizing equipment; and
  - b. permit ease of accessibility for servicing, replacement, and adjustment of component parts and accessories with minimum disturbance to other components and systems.

- 4. Ambulance service operators shall ensure that all electrical medical and accessory equipment being operated, either on 110/120 volt (AC) or low voltage, have been approved or inspected for use by CSA or C-UL.
- 5. Ambulance service operators shall ensure that controlled substances (opiates and benzodiazepines) are stored in different carrying cases than other medications.

### **Modifications**

- 1. Modifications shall not be made that would adversely affect the safety or other performance characteristics of any piece of equipment. Documentation from the original equipment manufacturer shall be kept on file confirming the acceptability of any modifications.
- 2. Any accessory components added to a piece of equipment (*e.g.* brackets, shelves, *etc.*) shall be able to support a minimum of ten (10) times the weight of the component plus any item it is intended to hold or carry.

## **Equipment Testing and Maintenance**

All applicable medical and accessory equipment shall, at a minimum, be inspected and maintained in accordance with the original equipment manufacturer's inspection, maintenance and quality assurance requirements.

## **Equipment Manuals**

Manufacturer's equipment manuals shall be readily available as local reference documents. These references will assist quality assurance personnel, management staff, paramedics and review teams in determining the appropriate use, maintenance and compliance of applicable medical and accessory equipment.

### **Materials**

#### Latex

Equipment used in an ambulance or emergency response vehicle shall be latex-free, where available.

#### **Hypoallergenic Materials**

Equipment shall be hypoallergenic, where available.

	Emergency Health Regulatory and Accountability Branch, Ontario Ministry of Health		

## **Commonly Used Abbreviations**

*Table 1* below outlines abbreviations commonly used in this standard.

Table 1. Abbreviations commonly used in the Standard

Word/Phrase	Abbreviation
Advanced Care Paramedic	ACP
American Association of Respiratory Care	AARC
Association for the Advancement of Medical Instrumentation	AAMI
American Heart Association	AHA
Association of Air Medical Services	AAMS
American National Standards Institute	ANSI
American Society for Testing and Materials	ASTM
Canadian Standards Association	CSA
Carbon Dioxide	$CO_2$
Centimetre	cm
Compressed Gas Association	CGA
Diameter index safety system	DISS
Electrocardiogram	ECG
Emergency Health Regulatory and Accountability Branch	EHRAB
Emergency Response Vehicle	ERV
End-tidal Carbon Dioxide	ETCO <sub>2</sub>
Endotracheal tube	ETT
Feet	ft
French	F
Gauge	G
Gram	g
International Standards Organization	ISO
Intravenous	IV
Kilogram	kg
Metre	m

Word/Phrase	Abbreviation
Metered Dose Inhaler	MDI
Microgram	mcg
Milliequivalent	mEq
Millilitre	ml
Millimetre	mm
Multi-casualty incident	MCI
Ministry of Health	MOH
Pound	lbs
Pounds per square inch	psi
Primary Care Paramedic	PCP
Underwriters Laboratories of Canada	C-UL
United States National Institute for Occupational Safety and Health	NIOSH
United States Pharmacopoeia	USP
Water	$H_20$

## **Definitions**

#### **Approximately**

means a range within 10% (plus or minus) of the specified figure.

#### Disposable

means a product that is designed for a single use or application.

#### Sterile

condition of being aseptic or free from live bacteria or other microorganisms especially pathogenic microorganisms and their spores.

### Part A – Land Ambulance/ERV Equipment



### Part A – Land Ambulance/ERV Equipment

## List 1 – Land Ambulance/ERV Accessory Equipment

#### List 1 (a) - Land Ambulance Accessory Equipment

	Equipment Description	EHRAB Standard No.	Minimum Quantity
1.	radio equipment: type and power, approved by the Director	N/A	1

#### List 1(b) - ERV Accessory Equipment

	<b>Equipment Description</b>	EHRAB Standard No.	Minimum Quantity
1.	radio equipment: type and power, approved by the Director	N/A	1

# List 2 – Primary Care Paramedic Land Ambulance Equipment and Medication

	Equipment Description	EHRAB Standard No.	Minimum Quantity
Cots	, Stretchers and Accessories		
1.	cot, lift assist <b>OR</b> cot, multi-level, lift in	<u>080</u> <b>OR</b> <u>085</u>	1
2.	restraining straps, cot	<u>300</u>	1
3.	infant restraint device	<u>165</u>	1
4.	lifting chair	<u>205</u>	1
5.	stretcher, adjustable break-away	<u>345</u>	1

	Equipment Description	EHRAB Standard No.	Minimum Quantity
6.	restraining straps, adjustable break-away & spinal board	<u>305</u>	1
7.	stretcher, portable	<u>355</u>	1
Immo	bilization Equipment		
8.	cervical collars, adult	<u>070</u>	2 each size or equivalent multi-size
9.	cervical collars, pediatric	<u>070</u>	2 each size or equivalent multi-size
10.	spinal board, quick connect	<u>325</u>	1
11.	spinal immobilization extrication device	<u>330</u>	1
12.	splint, multipurpose or malleable	<u>335</u>	4
13.	splint, traction	<u>340</u>	1
Oxyg	en/Suction Equipment and Accessories		
14.	airways, nasopharyngeal (complete range of sizes to accommodate adult patients)	<u>005</u>	2 sets
15.	airways, oropharyngeal (complete range of sizes - infant to large adult)	<u>010</u>	1 set
16.	bag-valve-mask resuscitator, adult	<u>015</u>	1
17.	bag-valve-mask resuscitator, pediatric	<u>020</u>	1
18.	hydrophobic submicron filter	<u>160</u>	2
19.	lubricant, water-based	N/A	4
20.	nebulized medication delivery mask	<u>235</u>	2
21.	oxygen cylinders, portable	<u>247</u>	2
22.	oxygen cylinder(s), vehicle	<u>248</u>	N/A
23.	oxygen flowmeter, vehicle	<u>250</u>	1
24.	oxygen mask, adult high concentration	<u>255</u>	1
25.	oxygen mask, high concentration/low flow	<u>260</u>	2

	Equipment Description	EHRAB Standard No.	Minimum Quantity
26.	oxygen mask, pediatric simple	<u>265</u>	2
27.	oxygen nasal cannula	<u>270</u>	1
28.	oxygen pressure regulator, vehicle	<u>280</u>	1
29.	oxygen supply tubing	<u>285</u>	2
30.	resuscitation mask, adult	<u>310</u>	1
31.	resuscitation mask, pediatric	<u>315</u>	2
32.	suction catheters	<u>360</u>	2 each size
33.	suction tip, wide bore type	<u>365</u>	2
34.	suction tip, Yankeur type	<u>370</u>	2
35.	suction unit, collection container (Vehicle)	<u>375</u>	2
36.	suction unit, tubing	<u>390</u>	2
37.	suction unit, vehicle	<u>395</u>	1
	ac Monitor/Defibrillator and Supplies	045	1
38.	cardiac monitor/defibrillator and patient care monitoring devices (PCP)	<u>045</u>	1
39.	cardiac monitor/defibrillator, defibrillation pads	<u>050</u>	2 sets of 2 adult pads
40.	cardiac monitor/defibrillator, ECG cable	<u>055</u>	1
41.	cardiac monitor/defibrillator, ECG monitoring electrodes	<u>060</u>	2 sets
42.	cardiac monitor/defibrillator, ECG paper	N/A	2 (includes 1 spare)
43.	razor, disposable	N/A	2
Patie	nt Care Supplies		
44.	adhesive tape, medical	N/A	2
45.	alcohol swab	N/A	10
46.	bandage, conforming gauze roll	N/A	5
47.	bandage, triangular	N/A	6
48.	blood pressure cuff/manometer (manual), adult	<u>025</u>	1

	Equipment Description	EHRAB Standard No.	Minimum Quantity
49.	blood pressure cuff/manometer (manual), adult XL	<u>025</u>	1
50.	blood pressure cuff/manometer (manual), pediatric	<u>030</u>	1
51.	burn kit	<u>035</u>	1
52.	cold pack	N/A	2
53.	dressing, abdominal	N/A	4
54.	dressing, hemostatic	<u>092</u>	2
55.	dressing, pressure	N/A	4
56.	eye pad	N/A	6
57.	first response kit	<u>125</u>	1
58.	gauze pad	N/A	10
59.	irrigation fluid	<u>195</u>	1,000 ml total
60.	mass casualty incident kit	<u>220</u>	1
61.	obstetrical kit	<u>245</u>	1
62.	pediatric emergency tape	N/A	1
63.	shears	N/A	1
64.	stethoscope	N/A	1 <b>or</b> personal issue
65.	symptom relief medications and equipment	<u>400</u>	1
66.	thermometer	<u>406</u>	1
67.	tourniquet, arterial	<u>011</u>	1
Perso	onal Protective Equipment		
68.	contaminated material containment bag	N/A	6
69.	coveralls/gowns, disposable	<u>090</u>	4
70.	eyewear, protective (safety)	<u>115</u>	2 <b>or</b> personal issue
71.	face shield	<u>120</u>	2 or personal use

	Equipment Description	EHRAB Standard No.	Minimum Quantity
72.	gloves, non-sterile	<u>130</u>	10 pairs each size
73.	hand rub, antiseptic	<u>150</u>	3
74.	particulate respirator mask	<u>290</u>	10
75.	sharps container	<u>320</u>	1
76.	surgical mask	N/A	4
Blank	ets/Linens		
77.	blanket	N/A	2
78.	blankets, disposable	N/A	2
79.	pillow	N/A	2
80.	pillow case	N/A	2
81.	sheets	N/A	2
82.	towel	N/A	4
Misce	llaneous		
83.	bed pan	N/A	1
84.	emesis bag	N/A	4
85.	tissues, facial	N/A	2 boxes
86.	tissue, toilet	N/A	1 roll
87.	urinal	N/A	1

## List 3 – Primary Care Paramedic ERV Equipment

#### List 3(a) – ERV Responder Equipment and Medication

	Equipment Description	EHRAB Standard No.	Minimum Quantity		
Cardi	Cardiac Monitor/Defibrillator and Accessories				
1.	cardiac monitor/defibrillator and patient care monitoring devices (PCP)	<u>045</u>	1		
2.	cardiac monitor/defibrillator, defibrillation pads	<u>050</u>	2 sets of 2 adult pads		
3.	cardiac monitor/defibrillator, ECG cable	<u>055</u>	1		
4.	cardiac monitor/defibrillator, ECG monitoring electrodes	<u>060</u>	2 sets		
5.	cardiac monitor/defibrillator, ECG paper	N/A	2 (includes 1 spare)		
6.	razor, disposable	N/A	1		
lmmo	obilization Equipment				
7.	spinal immobilization extrication device	<u>330</u>	1		
8.	splint, multi-purpose/malleable	<u>335</u>	2		
9.	splint, traction	<u>340</u>	1		
Patie	nt Care Supplies				
10.	burn kit	<u>035</u>	1		
11.	first response kit	<u>125</u>	1		
12.	mass casualty incident kit	<u>220</u>	1		
13.	obstetrical kit	<u>245</u>	1		
14.	pediatric emergency tape	N/A	1		
15.	symptom relief medications and equipment	<u>400</u>	1		

	Equipment Description	EHRAB Standard No.	Minimum Quantity
Perso	onal Protective Equipment		
16.	eyewear, protective (safety)	<u>115</u>	1 <b>or</b> personal issue
17.	face shield	<u>120</u>	2 <b>or</b> personal use
18.	gloves, non-sterile	<u>130</u>	2 pairs each size

#### **List 3(b) – ERV Support/Command Equipment**

	Equipment Description	EHRAB Standard No.	Minimum Quantity
Patie	ent Care Supplies		
1.	first response kit	<u>125</u>	1
2.	mass casualty incident kit	<u>220</u>	1
Pers	onal Protective Equipment		
3.	eyewear, protective (safety)	<u>115</u>	1 <b>or</b> personal issue
4.	face shield	<u>120</u>	2 <b>or</b> personal use

# List 4 – Advanced Care Paramedic Land Ambulance/ERV Equipment and Medication

In addition to equipment and medication contained in the Primary Care Paramedic Land Ambulance Equipment and Medication List (List 2), ambulances designated as Advanced Care Paramedic (ACP) ambulances shall carry the following equipment and medication in the quantities listed.

In addition to equipment and medication contained in the Primary Care Paramedic ERV Equipment List (List 3), ERVs staffed with one (1) ACP shall carry the following equipment and medication in the quantities listed.

Ambulances and ERVs carrying the "Cardiac Monitor/Defibrillator and Accessories" on the below list are **exempt** from carrying the "Cardiac Monitor/Defibrillator and Accessories" on List 2 and List 3.

	Equipment Description	EHRAB Standard No.	Minimum Quantity
Adva	nced Airway Kit		
1.	kit - Soft sided, maximum loaded weight 12.244 kilograms (27 lbs)	N/A	1
2.	chest drain valve	<u>075</u>	1
3.	endotracheal tubes – oral	<u>095</u>	1 each size except 7.0, 7.5 & 8.0 (2 each)
4.	endotracheal tube, extender device	<u>100</u>	2
5.	endotracheal tube, securing device	<u>105</u>	2
6.	endotracheal tube, stylette	<u>110</u>	2
7.	laryngoscope blades	<u>200</u>	1 each size
8.	laryngoscope handle	<u>200</u>	2
9.	lubricant, water-based	N/A	2
10.	magill forceps	<u>215</u>	1
11.	metered dose inhaler (MDI), aerosolization adapter	<u>225</u>	2
12.	qualitative end-tidal CO2 detector	<u>295</u>	2
13.	thoracostomy device	<u>410</u>	2
Cardi	ac Monitor/Defibrillator and Accessories		
14.	cardiac monitor/defibrillator and patient care monitoring devices (ACP)	<u>040</u>	1
15.	cardiac monitor/defibrillator, defibrillation pads	<u>050</u>	2 sets of 2 adult pads
16.	cardiac monitor/defibrillator, ECG cable	<u>055</u>	1

	Equipment Description	EHRAB	Minimum
17.	cardiac monitor/defibrillator, ECG monitoring electrodes	Standard No.	Sufficient quantities to monitor 2 patients
18.	cardiac monitor/defibrillator, ECG paper	N/A	2 (includes 1 spare)
19.	razor, disposable	N/A	2
Intrav	renous and Medication Kit		
20.	kit - Soft sided, maximum loaded weight 9.07 kilograms (20 lbs). Shall include separate and clearly identifiable protective cases for both controlled substances (e.g. opiates and benzodiazepines) and other medications.	N/A	1
Intrav	renous Supplies		
21.	alcohol preps	N/A	10
22.	dressing, clear sterile	N/A	6
23.	intraosseous (IO) needles	<u>170</u>	2 each size
24.	intravenous catheters	<u>175</u>	2 each size
25.	intravenous drip tubing	<u>180</u>	2
26.	intravenous drip tubing, pediatric	<u>181</u>	2
27.	intravenous pressure infuser	<u>185</u>	1
28.	intravenous solution (0.9% Sodium Chloride)	<u>190</u>	2 litres, any combination
29.	needles	<u>240</u>	2 each size
30.	saline flush solutions	N/A	2
31.	syringe, medical	<u>405</u>	2 each size
32.	tourniquet	N/A	2
Medic	eation		
33.	adenosine (6 mg and/or 12 mg preparations)	N/A	36 mg total
34.	atropine sulphate injection	N/A	2 mg

	Equipment Description	EHRAB Standard No.	Minimum Quantity
35.	calcium gluconate (1 g/10 mL = 10%)	N/A	4 g
36.	10% dextrose in water injection (10 g/100 ml)	N/A	4
	OR		
	50% dextrose in water injection (25 g/50 ml)		
37.	dopamine HCL solution (200 mg/250 ml) OR dopamine HCL injection (200 mg/5 ml)	N/A	2 bags or 2
38.	epinephrine $0.1 \text{ mg/ml} = 1:10,000$	N/A	10 mg
39.	lidocaine injection <b>OR</b> amiodarone injection	N/A	600 mg <b>or</b> 600 mg
40.	lidocaine spray (10 mg/spray) with 2 spray nozzles/canister	N/A	2
41.	midazolam injection	N/A	20 mg
42.	morphine sulphate injection	N/A	20 mg total
43.	sodium bicarbonate injection (50 mEq/50 ml)	N/A	2

## List 5 – Land Ambulance Auxiliary Equipment and Medication

A land ambulance that carries any of the following items shall follow the applicable EHRAB Standard and Minimum Quantity with respect to those items.

	Equipment Description	EHRAB Standard No.	Minimum Quantity
Equip	oment		
1.	Continuous Positive Airway Pressure Unit	<u>A-910</u>	N/A
2.	Endotracheal Tube – Nasal	<u>A-912</u>	1 each size
3.	Meconium Aspirator Adapter	<u>A-915</u>	N/A
4.	Restraining Straps, Folding Stretcher	<u>A-918</u>	1
5.	Stretcher, Folding	<u>A-920</u>	1

	Equipment Description	EHRAB Standard No.	Minimum Quantity
Medi	cation		
6.	dimenhydrinate	N/A	100 mg
7.	fentanyl	N/A	550 mcg
8.	furosemide	N/A	200 mg
9.	ketamine	N/A	1000 mg
10.	topical antibiotic	N/A	sufficient quantities to treat 2 patients
11.	xylometazoline 0.1%	N/A	2 bottles

#### Intravenous and Medication Kit / Intravenous Supplies for PCP Autonomous IV

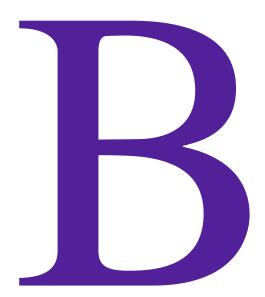
Ambulances designated as Advanced Care Paramedic (ACP) ambulances are exempt from carrying the Intravenous and Medication Kit / Intravenous Supplies and Medication for PCP Autonomous IV.

12.	kit - Soft sided, maximum loaded weight 9.07 kilograms (20 lbs)	N/A	1
13.	alcohol preps	N/A	10
14.	dressing, clear sterile	N/A	6
15.	intravenous catheters	<u>175</u>	2 each size
16.	intravenous drip tubing	<u>180</u>	2
17.	intravenous drip tubing, pediatric	<u>181</u>	2
18.	intravenous pressure infuser	<u>185</u>	1
19.	intravenous solution (0.9% Sodium Chloride)	<u>190</u>	2 litres, any combination
20.	needles	<u>240</u>	2 each size
21.	saline flush solutions	N/A	2
22.	syringe, medical	<u>405</u>	2 each size
23.	tourniquet	N/A	2

Equipment Description	EHRAB	Minimum
	Standard No.	Quantity
Intravenous Medication for PCP Autonomous IV		
In addition to the Symptom Relief Medication and Equipment (MOH Standard #400), the quantity of medication listed below is the minimum total amount to be carried in an ambulance staffed with a PCP authorized for PCP Autonomous IV. Ambulances designated as Advanced Care Paramedic (ACP) ambulances are exempt from carrying the Intravenous Medication for PCP Autonomous IV.		
24. 10% dextrose in water injection (10 g/100 ml)  OR  50% dextrose in water injection (25 g/50 ml)	N/A	4

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## **Part B – Equipment Standards**



### **Part B – Equipment Standards**

## Airway, Nasopharyngeal - No. 005

#### **Minimum requirements**

#### Nasopharyngeal airways shall:

- 1. be constructed of a soft, medical grade material;
- 2. be for single patient use;
- 3. be constructed to minimize kinking in use;
- 4. be designed with the buccal end of the airway that is flanged and expected to fit against the external nares and the pharyngeal end shall be beveled;
- 5. be provided in a range of sizes suited for use with adults;
- 6. be compatible with all resuscitation masks meeting MOH Standard #310;
- 7. be individually packaged;
- 8. have the size of the airway readily apparent on examination of the package;
- 9. be packaged as sterile in properly sealed packages capable of maintaining the sterile integrity of the airway under normal conditions of shipping and storage. The word "Sterile" shall be readily apparent on examination of the package.

#### Reference

ANSI Z79.3 Anaesthetic Equipment-Oropharyngeal and Nasopharyngeal Airways

## Airway, Oropharyngeal - No. 010

#### **Minimum requirements**

#### Oropharyngeal airways shall:

- 1. be constructed of pliable, transparent, medical grade material;
- 2. be for single patient use;
- 3. be designed to keep the base of the tongue in a forward position while the airway is in use:
- 4. be designed to minimize collapse when bitten by the patient;
- 5. be a one-piece design;
- 6. be available in sizes ranging from infant to large adult;
- 7. be a single (Gudel) or double lumen (Berman) type;
- 8. be designed to allow easy recognition and clearing of blockage of the lumen by secretions, blood, emesis, *etc.*;
- 9. be individually packaged;
- 10. have the size of the airway readily apparent on examination of the package;
- 11. be packaged as sterile in properly sealed packages capable of maintaining the sterile integrity of the airway under normal conditions of shipping and storage. The word "Sterile" shall be readily apparent on examination.

#### Reference

ANSI Z79.3 Anaesthetic Equipment-Oropharyngeal and Nasopharyngeal Airways

## **Arterial Tourniquet - No. 011**

#### **Minimum requirements**

#### **Arterial tourniquets shall:**

- 1. be constructed of lightweight/durable materials;
- 2. be single use, disposable;
- 3. provide circumferential pressure to any extremity with complete occlusion of arterial blood flow;
- 4. allow for incremental increases in tension;
- 5. provide a lock or securing mechanism to ensure maintenance of desired tension; and
- 6. allow for rapid release of tension when necessary.

#### Reference

N/A

## **Atomization Device, Intranasal - No.** 012

#### **Minimum requirements**

#### Intranasal atomization device shall:

- 1. be constructed with a soft, conical plug;
- 2. be constructed to form a seal within the nostril and medication being delivered;
- 3. be capable of delivering atomized drugs into a fine mist of particles (<100 microns in size);
- 4. be individually packaged;
- 5. be for single patient use;
- 6. be in a sealed package, capable of maintaining the clean integrity of the atomizer under normal conditions of shipping and storage; and;
- 7. attach to or is part of a device (*e.g.* syringe) that allows appropriate unit dose measurements.

## Bag-Valve-Mask Resuscitator, Adult - No. 015

#### **Minimum requirements**

#### Bag-Valve-Mask resuscitators shall include all of the following components:

- 1. one (1) adult ventilation bag with a minimum capacity sufficient to adequately ventilate a large adult;
- 2. one (1) non-rebreathing valve with single diaphragm;
- 3. one (1) intake valve;
- 4. one (1) way exhalation port that vents expired gases to the atmosphere;
- 5. one (1) reservoir assembly with a capacity equal to or greater than the ventilation bag capacity.

#### Bag-valve-mask resuscitators shall:

- 1. maintain the normal dimensions, configuration and operational performance characteristics of all components, by resisting deterioration caused by ageing, storage conditions, temperature extremes and atmospheric conditions;
- 2. be suitable for manual operation and meet the current AHA and AARC guidelines for resuscitation;
- 3. be constructed of materials capable of being cleaned and disinfected, utilizing methods and agents normally and readily available to ambulance service operators when reusable equipment is utilized;
- 4. be constructed of transparent medical grade materials;
- 5. have a standard 15 mm inside diameter and 22 mm outside diameter fitting to attach to resuscitation masks and endotracheal tubes;
- 6. admit air rapidly through the inlet valve and not allow it to escape unless the bag is compressed;
- 7. have an integral oxygen stem attached to the inlet valve which shall allow gas to flow into the intake valve when used with oxygen and vent excess oxygen to the atmosphere;
- 8. have a non-rebreathing valve which includes a single diaphragm to prevent rebreathing of the patient's exhaled gas;
- 9. allow the patient to breathe freely from the atmosphere should the device become occluded;
- 10. resist jamming due to the presence of debris;
- 11. be easy to disassemble and clean, with components designed to prevent incorrect assembly when reusable equipment is utilized;
- 12. not exceed 10 ml valve dead space;
- 13. have a dead space for the valve and mask not exceeding 175 ml;

- 14. not allow the non-rebreathing valve to jam despite temperature extremes, moisture, or supplemented oxygen inflow as great as 15 litres per minute;
- 15. supply oxygen concentrations in excess of 40% with supplemental oxygen when used without an oxygen reservoir;
- 16. maintain an oxygen concentration not less than 100% with the reservoir assembly attached and supplied with an oxygen inflow of 12 litres per minute, a tidal volume of 500 ml and a cycle rate of 12 cycles per minute.

#### Reference

AARC Guidelines, September 2004, Vol 49/9

AHA Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care, 2015

## Bag-Valve-Mask Resuscitator, Pediatric - No. 020

#### **Minimum requirements**

#### Bag-valve-mask resuscitators shall include of the following components:

- 1. one (1) child ventilation bag with a minimum capacity sufficient to adequately ventilate a pediatric patient;
- 2. pop-off pressure relief valve;
- 3. one (1) patient non-rebreathing valve with single diaphragm;
- 4. one (1) intake valve;
- 5. one (1) reservoir assembly with a capacity equal to or greater than the ventilation bag capacity.

#### Bag-valve-mask resuscitators shall:

- 1. maintain the normal dimensions, configuration and operational performance characteristics of all components, by resisting deterioration caused by ageing, storage conditions, temperature extremes and atmospheric conditions;
- 2. be constructed of materials capable of being cleaned and disinfected, utilizing methods and agents normally and readily available to ambulance service operators when reusable equipment is utilized;
- 3. be constructed of transparent medical grade materials;
- 4. be suitable for manual operation and meet the current AHA and AARC guidelines for resuscitation;
- 5. provide a minimum volume of 300 ml;
- 6. be capable of re-expanding fully from a complete compression at least 50 times per minute;
- 7. have a standard 15 mm inside diameter and 22 mm outside diameter fitting to attach to resuscitation masks and endotracheal tubes;
- 8. admit air rapidly through the inlet valve and not allow it to escape unless the bag is compressed;
- 9. have an integral oxygen stem attached to the inlet valve which shall allow gas to flow into the intake valve when used with oxygen and vent excess oxygen to the atmosphere;
- 10. have a non-rebreathing valve which includes a single diaphragm to prevent rebreathing of the patient's exhaled gas;
- 11. allow the patient to breathe freely from the atmosphere should the device become occluded;
- 12. not allow the non-rebreathing valve to jam despite temperature extremes, moisture, or supplemented oxygen inflow as great as 15 litres per minute;
- 13. have a valve assembly capable of releasing excess pressure within the bag;

- 14. resist jamming due to the presence of debris;
- 15. be easy to disassemble and clean, with components designed to prevent incorrect assembly when reusable equipment is utilized;
- 16. not exceed 10 ml valve dead space;
- 17. have a dead space for the valve and mask not exceeding 175 ml;
- 18. supply oxygen concentrations in excess of 40% with supplemental oxygen when used without an oxygen reservoir;
- 19. maintain an oxygen concentration not less than 100% with the reservoir assembly attached and supplied with an oxygen inflow of 12 litres per minute, a tidal volume of 300 ml and a cycle rate of 12 cycles per minute.

#### Reference

AARC Guidelines, September 2004, Vol 49/9

AHA Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care, 2015

## Blood Pressure Cuff/Manometer (Manual), Adult - No. 025

#### **Minimum requirements**

#### Adult blood pressure devices shall:

- 1. be constructed of materials capable of being easily cleaned and disinfected;
- 2. have a cuff and closure system suitable for range of adult sizing/positioning;
- 3. have a non-pin-indexed pneumatic pressure gauge capable of displaying readings in the range of 0-300 mmHg;
- 4. have an inflation bulb equipped with a pressure release control.

#### Reference

ISO 81060 - 1:2007

## Blood Pressure Cuff/Manometer (Manual), Pediatric - No. 030

#### **Minimum requirements**

#### Pediatric blood pressure devices shall:

- 1. be constructed of materials capable of being easily cleaned and disinfected;
- 2. have a cuff and closure system suitable for a range of pediatric sizing/positioning;
- 3. have a non-pin indexed pneumatic pressure gauge capable of displaying readings in the range of 0-300 mmHg;
- 4. have an inflation bulb equipped with a pressure release control.

#### Reference

ISO 81060 - 1:2007

### Burn Kit - No. 035

#### **Minimum requirements**

#### The contents of the Burn Kit shall be sterile and contain the following:

	Equipment Description	EHRAB Standard No.	Minimum Quantity
1.	bandage, conforming gauze roll	N/A	4
2.	burn sheet, approximately 150 cm x 225 cm	N/A	1
3.	burn sheets, approximately 37 cm x 37 cm	N/A	2
4.	burn sheets, approximately 75 cm x 75 cm	N/A	2
5.	gloves, sterile	<u>140</u>	2 pairs
6.	irrigation fluid	<u>195</u>	Minimum 1,000 ml

#### **Burn sheet material shall:**

- 1. be strong enough when wet or dry to not tear easily during application or removal;
- 2. be non-adherent to the site of the injury, and shall not readily decompose, polymerize, or react;
- 3. not repel water;
- 4. contain no known hazardous materials;
- 5. be individually wrapped, lint free with the size marked clearly on the packaging.

#### The burn kit container shall:

- 1. be constructed of sturdy, crush-resistant material;
- 2. be able to be safely stored and secured in the vehicle;
- 3. be labeled "Burn Kit" with the contents itemized;
- 4. be labeled with expiry date;
- 5. be sealed in a way to ensure contents remain sterile.

#### Reference

# Cardiac Monitor/Defibrillator and Patient Monitoring Devices (ACP) - No. 040

#### **Minimum requirements**

#### Cardiac monitor/defibrillators and patient monitoring devices shall:

- 1. be capable of patient monitoring, defibrillation, and synchronized cardioversion;
- 2. have monitoring technologies with diagnostic measurements for S-T segment analysis for 12-lead ECG acquisition;
- 3. be able to monitor oxygen saturation of arterial hemoglobin (SpO<sub>2</sub>);
- 4. be able to monitor end-tidal CO<sub>2</sub>, including numeric value and waveform;
- 5. be programmable to energy settings for defibrillation, transcutaneous pacing and synchronized cardioversion as described in the current MOH *Advanced Life Support Patient Care Standards*;
- 6. be able to automatically analyze electrocardiographic rhythms to determine if defibrillation is required;
- 7. be easy to clean and disinfect;
- 8. be water-resistant;
- 9. be capable of '3', '4' or '5' lead ECG monitoring through electrodes and/or ECG monitoring through defibrillation pads;
- 10. have data collection capability and provide specific event summary reports;
- 11. have a strip chart printer and ECG paper designed for the device;
- 12. have internal operational checks;
- 13. have individual, adjustable volume of QRS beeper, voice prompts, and other standard alerts;
- 14. have both AC and DC power modules;
- 15. have one spare battery;
- 16. have a software configuration mode;
- 17. have a diagnostic mode;
- 18. be equipped with a carrying case.

#### Reference

ANSI/AAMI IEC 60601-2-4:2010

ANSI/AAMI EC13:2002 (R2007)

# Cardiac Monitor/Defibrillator and Patient Monitoring Devices (PCP) - No. 045

#### **Minimum requirements**

#### Cardiac monitor/defibrillators and patient monitoring devices shall:

- 1. be capable of patient monitoring and defibrillation;
- 2. have monitoring technologies with diagnostic measurements for S-T segment analysis for 12-lead ECG acquisition;
- 3. be able to monitor oxygen saturation of arterial hemoglobin  $(SpO_2)$ ;
- 4. be programmable to energy settings for defibrillation as described in the current MOH *Advanced Life Support Patient Care Standards*;
- 5. be able to automatically analyze electrocardiographic rhythms to determine if defibrillation is required;
- 6. be easy to clean and disinfect;
- 7. be water-resistant;
- 8. be capable of '3', '4' or '5' lead ECG monitoring through electrodes and/or ECG monitoring through defibrillation pads;
- 9. have data collection capability and provide specific event summary reports;
- 10. have a strip chart printer and ECG paper designed for the device;
- 11. have internal operational checks;
- 12. have individual, adjustable volume of QRS beeper, voice prompts, and other standard alerts:
- 13. have both AC and DC power modules;
- 14. have one spare battery;
- 15. have a software configuration mode;
- 16. have a diagnostic mode;
- 17. be equipped with a carrying case.

#### Reference

ANSI/AAMI IEC 60601-2-4:2010

ANSI/AAMI EC13:2002 (R2007)

## Cardiac Monitor/Defibrillator, Defibrillation Pads - No. 050

#### **Minimum requirements**

#### **Defibrillation pads shall:**

- 1. be disposable;
- 2. be soft and flexible;
- 3. be able to function in a variety of temperature and environmental conditions;
- 4. be constructed of a thin flexible conductor, protective polymer backing and a hydro-gel adhesive;
- 5. provide delivery of current for defibrillation, transcutaneous pacing and synchronized cardioversion;
- 6. be soft, flexible and oval-shaped to conform to body contours for larger surface contact and adhesion;
- 7. serve various functions: ECG monitoring, defibrillation, transcutaneous pacing and synchronized cardioversion;
- 8. be individually packaged;
- 9. be labeled with size.

#### Reference

ANSI/AAMI DFSO:2003

ANSI/AAMI/ISO EC13:2002 (R) 2007

## Cardiac Monitor/Defibrillator, ECG Cable - No. 055

#### **Minimum requirements**

#### **ECG** cables shall:

- 1. provide '3', '4' or '5' lead ECG monitoring through electrodes;
- 2. provide 12-lead ECG monitoring through electrodes;
- 3. be easy to clean and disinfect;
- 4. be water-resistant;
- 5. be colour-coded and/or labeled to designate appropriate limb designation.

#### Reference

ANSI/AAMI EC53:2002 (R) 2007

## Cardiac Monitor/Defibrillator, ECG Monitoring Electrodes - No. 060

#### **Minimum requirements**

#### **ECG** monitoring electrodes shall:

- 1. be capable of monitoring neonatal, pediatric and adults patients;
- 2. be disposable;
- 3. have fluid resistant adhesive;
- 4. be capable of interfacing with ECG cable;
- 5. have a conductive gel centre;
- 6. provide for general purpose monitoring and diagnostics;
- 7. be flexible and conform to body surfaces;
- 8. be sealed in light resistant packaging.

#### Reference

ANSI/AAMI EC53:2002 (R) 2007

### Cervical Collar - No. 070

#### **Minimum requirements**

#### Cervical collars shall:

- 1. have sufficient padding at all points of contact with the patient to ensure patient comfort and prevent possible injury;
- 2. have an anterior opening to allow visualization of the anterior area of the neck and palpation of the carotid pulse;
- 3. incorporate a method (either as part of the collar or via a separate external device) for determination of the required collar size, prior to application;
- 4. be x-ray translucent;
- 5. be available in a variety of sizes to fit infants, children and adults while accommodating various neck types or be of a design such that a single collar can be adjusted to accommodate various neck sizes and types.

#### Reference

ASTM F1559-94 (2007)

### **Chest Drain Valve - No. 075**

#### **Minimum requirements**

#### Chest drain valves shall:

- 1. be disposable;
- 2. let air and fluids out of the chest cavity, without any reflux back into the chest cavity;
- 3. either connect directly to, or over, the thoracostomy device;
- 4. be constructed of transparent material;
- 5. be individually wrapped and sealed.

#### Reference

### Cot, Lift Assist - No. 080

#### **Minimum requirements**

#### Lift assist cots shall:

- 1. have the ability to be shortened as to facilitate its use in confined areas (*e.g.* elevators, tight corners, *etc.*);
- 2. have an adjustable back rest that allows patient positioning from supine to fully sitting;
- 3. have lockable side rails that can be positioned in such a way as to facilitate the safe movement of a patient on or off the cot;
- 4. be manufactured with materials that can be easily cleaned and disinfected;
- 5. be compatible with a cot retention system that is compliant with the performance requirements contained in the current version of the *Ontario Provincial Land Ambulance and Emergency Response Vehicle Standard*;
- 6. have at least four (4) omni-directional wheels with solid rubber or equivalent tires; wheels mounted to ensure balanced weight distribution;
- 7. be equipped with a patient securing system (MOH Standard #300);
- 8. have an integrated, or removable intravenous pole that securely locks in place when in the upright position;
- 9. have the following dimensions/tolerances:
  - a. loading wheel height to be sufficient to allow cot to be loaded into all ambulances approved for use in the Province of Ontario, without manually lifting the front end of the cot off the ground;
  - b. be capable of carrying, as a minimum, the weight of a 90th percentile male;
  - c. physical dimensions of the cot bed to accommodate, as a minimum, a 90th percentile male.

#### Reference

Canadian Community Health Survey

### Cot, Lift-in - No. 085

#### **Minimum requirements**

#### Lift-in cots shall:

- 1. have the ability to be shortened as to facilitate its use in confined areas (*e.g.* elevators, tight corners, *etc.*);
- 2. have an adjustable back rest that allows patient positioning from supine to fully sitting;
- 3. have lockable side rails that can be positioned in such a way as to facilitate the safe movement of a patient on or off the cot;
- 4. be manufactured with materials that can be easily cleaned and disinfected;
- 5. be compatible with a cot retention system that is compliant with the performance requirements contained in the current version of the *Ontario Provincial Land Ambulance and Emergency Response Vehicle Standard*;
- 6. have at least four (4) omni-directional wheels with solid rubber, or better tires; wheels mounted to ensure balanced weight distribution;
- 7. be equipped with a patient securing system (MOH Standard #300);
- 8. have an integrated, or removable intravenous pole that securely locks in place when in the upright position;
- 9. have the following dimensions/tolerances:
  - a. be capable of carrying, as a minimum, the weight of a 90th percentile male;
  - b. physical dimensions of the cot bed to accommodate, as a minimum, a 90th percentile male.

#### Reference

Canadian Community Health Survey

## Coveralls/Gowns, Disposable - No. 090

#### **Minimum requirements**

#### Coveralls/gowns shall:

- 1. be disposable;
- 2. be elasticized at the wrists and ankles (for coveralls);
- 3. cover the wearer front and back;
- 4. have ties that are easily accessible for the user (for gowns);
- 5. be fluid resistant to splashes and sprays;
- 6. be available in sizes to accommodate wearer.

#### Reference

ANSI/ISEA 101-1996 standards

## **Dressing, Hemostatic - No. 092**

#### **Minimum requirements**

#### Hemostatic dressings shall be:

- 1. able to accelerate the clotting process of blood;
- 2. single use, disposable;
- 3. sterile;
- 4. approved for this indication by Health Canada, Therapeutic Products Directorate.

#### Reference

### Endotracheal Tube - Oral - No. 095

#### **Minimum requirements**

#### **Endotracheal tubes shall:**

- 1. be disposable;
- 2. have a 15 mm compatible adapter with push and twist connections;
- 3. be constructed of pliable, medical grade material that resists kinking and is transparent;
- 4. be designed to allow for insertion via the oral pharynx into the trachea;
- 5. allow a full magill curve;
- 6. have a radiopaque line running the length of the tube;
- 7. have an angled cut end with an extra hole or eye;
- 8. have graduated measurement markers along the length of the tube;
- 9. have a high-volume, low-pressure cuff (cuffed endotracheal tubes only);
- 10. have a self-sealing cuff valve for inflating the cuff (cuffed endotracheal tubes only);
- 11. have a visual indicator to confirm the cuff is inflated (cuffed endotracheal tubes only);
- 12. be individually packaged and sealed;
- 13. be sterile;
- 14. be clearly labeled with size of endotracheal tube;
- 15. be stocked in the following sizes:
  - a. Non-cuffed Endotracheal Tubes: #3, #3.5, #4, #4.5, #5, #5.5
  - b. Cuffed Endotracheal Tubes: #6, #6.5, #7, #7.5, #8

#### Reference

ISO 5361:1999

## Endotracheal Tube, Extender Device - No. 100

#### **Minimum requirements**

#### **Endotracheal tube extenders shall:**

- 1. be disposable;
- 2. have 22 mm female/15 mm male device end connector and 15 mm male patient end connector;
- 3. include 360° swivel head adapter and double swivel elbow;
- 4. be made with corrugated tubing that can direct the weight of the airway tree away from the end of an endotracheal tube;
- 5. have a length up to a maximum of 210 mm;
- 6. have "push and twist" connections;
- 7. be sterile.

#### Reference

ISO 5361:1999

## Endotracheal Tube, Securing Device - No. 105

#### **Minimum requirements**

#### Endotracheal tube securing devices shall be:

- 1. disposable;
- 2. capable of limiting the movement of an endotracheal tube to less than 1 cm in any direction;
- 3. adjustable to various sizes;
- 4. stocked clean.

#### Reference

### **Endotracheal Tube, Stylette - No. 110**

#### **Minimum requirements**

#### Endotracheal tube stylettes shall:

- 1. be disposable;
- 2. cap or hoop at operator end to maintain desired length;
- 3. be easy to telescope through an endotracheal tube;
- 4. be made from semi-rigid, malleable material;
- 5. have a soft distal tip;
- 6. be individually wrapped in sterile packaging;
- 7. be available in sizes appropriate to fit standard endotracheal tubes;
- 8. have the size clearly visible on the package.

#### Reference

## Eyewear, Protective (Safety) - No. 115

#### **Minimum requirements**

#### Protective safety eyewear shall:

- 1. be capable of being cleaned and disinfected;
- 2. be able to fit a variety of head sizes;
- 3. contain scratch-resistant lenses;
- 4. contain side-shields or be wrap-around style;
- 5. be splash resistant;
- 6. be capable of being used in conjunction with corrective lenses;
- 7. be able to withstand high-impact collisions.

#### Reference

CSA Standard Z94.3 Eye and Face Protectors ANSI/ISEA Z87.1 Personal Eye and Face Protection Devices

### Face Shield - No. 120

#### **Minimum requirements**

#### Face shields shall:

- 1. cover the entire face of the user by extending from the top of the forehead to below the chin:
- 2. be manufactured of a clear, anti-fog, scratch resistant material;
- 3. be easy to clean and disinfect, or be disposable;
- 4. be available in sizes that can accommodate a broad range of users, or be adjustable to accommodate a broad range of users;
- 5. be capable of being worn over prescription eye glasses.

#### Reference

CSA Standard Z94.3 Eye and Face Protectors ANSI/ISEA Z87.1 Personal Eye and Face Protection Devices

### First Response Kit - No. 125

#### **Minimum requirements**

Ambulance services may utilize one (1) or more carrying cases for the purpose of transporting the required oxygen, accessory and first aid equipment described in this standard. Each case used shall meet the applicable minimum requirements for carrying cases described in this standard.

#### The case, or combination of cases, shall contain the following oxygen and accessory equipment:

	Equipment Description	EHRAB Standard No.	Minimum Quantity
1.	airway, oropharyngeal	<u>010</u>	1 each size
2.	bag-valve-mask resuscitator, adult	<u>015</u>	1
3.	bag-valve-mask resuscitator, pediatric	<u>020</u>	1
4.	hydrophobic submicron filter	<u>160</u>	1
5.	blood pressure cuff/manometer (manual), adult	<u>025</u>	1
6.	blood pressure cuff/manometer (manual), pediatric	<u>030</u>	1
7.	oxygen cylinder, portable	<u>247</u>	1
8.	oxygen mask, adult high concentration	<u>255</u>	1
9.	oxygen mask, pediatric simple	<u>265</u>	1
10.	oxygen nasal cannula	<u>270</u>	1
11.	oxygen pressure regulator, first response kit	<u>275</u>	1
12.	resuscitation mask, adult	<u>310</u>	1
13.	stethoscope	N/A	1 <b>or</b> personal issue
14.	suction unit, hand operated OR suction unit, portable electric	<u>380</u> <b>OR</b> <u>385</u>	1

#### The case, or combination of cases, shall contain the following first aid supplies:

	Equipment Description	EHRAB Standard No.	Minimum Quantity
1.	bandage, conforming gauze roll	N/A	2
2.	bandage, triangular	N/A	6

	Equipment Description	EHRAB Standard No.	Minimum Quantity
3.	cervical collar	<u>070</u>	1 each size or multi- size
4.	dressing, hemostatic	<u>092</u>	2
5.	dressing, pressure	N/A	2
6.	eye pad	N/A	2
7.	gauze pad	N/A	4
8.	gloves, non-sterile	<u>130</u>	2 pairs
9.	hand rub, antiseptic	<u>150</u>	1
10.	irrigation fluid	<u>195</u>	Minimum 1,000 ml
11.	tape, adhesive	N/A	2 rolls
12.	tourniquet, arterial	<u>011</u>	1

#### All carrying cases shall:

- 1. allow for the contents to be contained while the kit is transported and during opening;
- 2. not exceed 12.25 kg (27 lbs) when fully loaded;
- 3. have a shoulder strap and carrying handle(s). If used to secure the case in the vehicle, carry handle(s) shall be capable of restraining a minimum of ten (10) times the weight of the bag and its contents;
- 4. allow the kit to remain stable when placed on the ground or other flat surfaces and should not tip over easily;
- 5. be easily cleaned and disinfected;
- 6. remain water resistant under normal operating conditions.

#### Cases designed to carry oxygen equipment shall:

- 1. allow for continued provision of oxygen via both therapy and resuscitation adjuncts during transportation of the patient;
- 2. safely restrain the oxygen cylinder when a force equal to twenty-five (25) times the weight of a fully loaded oxygen tank, is applied to the oxygen tank holder in any direction;
- 3. protect the cylinder, regulator and gauge from damage when dropped on the corner nearest the oxygen tank valve from a height of 1.3 m (4 ft) to a concrete surface.

#### Reference

### Gloves, Non-sterile - No. 130

#### **Minimum requirements**

#### Non-sterile gloves shall be:

- 1. single use, disposable;
- 2. manufactured of medical grade material;
- 3. ambidextrous;
- 4. powder-free;
- 5. latex free;
- 6. supplied in sizes to accommodate the hand size of various users.

#### Reference

ISO 11193-2:2006

## Gloves, Sterile - No. 140

#### **Minimum requirements**

#### Sterile gloves shall be:

- 1. single use, disposable;
- 2. manufactured of medical grade material;
- 3. ambidextrous;
- 4. powder-free;
- 5. supplied in sizes to accommodate the hand size of various users;
- 6. packaged as sterile in properly sealed packages capable of maintaining the sterile integrity of the gloves under normal conditions of shipping and storage;
- 7. clearly labeled with the word "sterile".

#### Reference

ISO 10282

### Glucometer - No. 145

#### **Minimum requirements**

#### Glucometers shall:

- 1. be small and portable;
- 2. be battery powered;
- 3. provide results within 10 seconds of starting test;
- 4. be able to provide results with a minimal blood sample (approx. 0.3 microlitre);
- 5. have an easily readable display;
- 6. be able to have quality control tests applied to device;
- 7. have available control solutions for quality control testing;
- 8. have a functional error range not exceeding +/- 15%.

#### Reference

ISO 15197:2003

Diabetes Care (2000) 23:1143 – 1148

## Hand Rub, Antiseptic - No. 150

#### **Minimum requirements**

#### Antiseptic hand rub shall:

- 1. be a minimum of 99.9% effective against a broad range of bacteria (including MRSA and VRE) using a minimum of 2.5 ml of solution per 15 second application;
- 2. be alcohol based (isopropanol or ethanol) minimum concentration 60%;
- 3. be available in personal size containers.

#### Reference

Infection Prevention and Control Best Practices Manual for Land Paramedics, Version 1.0 – March 2007

## Hydrophobic Submicron Filter - No. 160

#### **Minimum requirements**

#### Hydrophobic submicron filters shall:

- 1. be for single patient use and disposable;
- 2. be supplied clean and individually packaged;
- 3. have a viral and bacterial filtration efficiency of at least 99.99%;
- 4. have ISO Standard 15 mm inside diameter and 22 mm outside diameter fittings;
- 5. be available in sizes that are appropriate for adult, pediatric and infant applications.

#### Reference

ISO 23328-1:2003

### **Infant Restraint Device - No. 165**

#### **Minimum requirements**

#### Infant restraint devices shall:

- 1. be easy to clean and disinfect;
- 2. be constructed with one-piece webbing straps with quick-release buckles which securely attach the device to the ambulance cot frames at the minimum of three points;
- 3. be constructed with a five-point harness system that consists of shoulder, chest, and crotch restraints that secure with a single, quick release buckle. All restraints shall be fully adjustable;
- 4. be able to be stored and secured safely in an ambulance;
- 5. be compatible for use with cots carried in the ambulance;
- 6. be capable of accepting additional head and body support to ensure patient security;
- 7. meet or exceed CSA standards.

#### Reference

AAMS Pediatric Restraint Position Paper, October 2007

## Intraosseous (IO) Needle - No. 170

#### **Minimum requirements**

#### Intraosseous needles shall:

- 1. be disposable after one use;
- 2. be available in sizes appropriate for use in neonates, infants, and children;
- 3. have a beveled needle with the exact gauge outside diameter that is capable of boring through a bone;
- 4. have a passageway through the needle to facilitate infusion of fluids and medication;
- 5. have a rigid needle with removable inner stylet design;
- 6. have a handle that provides an adequate grip;
- 7. have a leak-proof twist-lock fitting to attach syringes or IV tubing;
- 8. be sterile.

#### Reference

O. Reg. 474/07: Needle Safety under the Occupational Health and Safety Act

### **Intravenous Catheter - No. 175**

#### **Minimum requirements**

#### Intravenous catheters shall:

- 1. be disposable after one use;
- 2. be available in sizes to support the administration of approved medications and solutions in all patient populations;
- 3. have an "over the needle" catheter design with the exact gauge outside diameter;
- 4. have beveled-end needles;
- 5. be supplied with a protective plastic sheath;
- 6. have an easy identifiable label and/or coding system (*i.e.* colour) to indicate size;
- 7. have a leak-proof twist-lock fitting to attach syringes or IV tubing;
- 8. be sterile.

#### Reference

ISO 10555-5:1996

## **Intravenous Drip Tubing - No. 180**

#### **Minimum requirements**

#### Intravenous drip tubing shall:

- 1. be for single use only and disposable;
- 2. have a minimum of two (2) "Y" medication ports (ideally luer lock to minimize sharps risk);
- 3. include a spike to access the fluid delivery port;
- 4. include a roller clamp with groove to adjust flow rate;
- 5. have a male luer lock adapter at the distal end;
- 6. be compatible for use with medications or solutions;
- 7. include a slide clamp / Robert clamp (occlusion clamp) safety clamp;
- 8. have a compressible drip chamber;
- 9. be constructed of transparent material;
- 10. be individually packaged;
- 11. be labeled "Sterile";
- 12. be labeled with the drip factor.

#### Reference

## Intravenous Drip Tubing, Pediatric - No. 181

#### **Minimum requirements**

#### Intravenous drip tubing shall:

- 1. be for single use only and disposable;
- 2. have a minimum of two (2) "Y" medication ports (ideally luer lock to minimize sharps risk);
- 3. include a spike to access the fluid delivery port;
- 4. include a roller clamp with groove to adjust flow rate;
- 5. have a male luer lock adapter at the distal end;
- 6. be compatible for use with medications or solutions;
- 7. include a slide clamp / Robert clamp (occlusion clamp) safety clamp;
- 8. have a compressible drip chamber;
- 9. be constructed of transparent material;
- 10. be individually packaged;
- 11. be labeled "Sterile";
- 12. be labeled with the drip factor of 60 gtts/ml;
- 13. have an inline volumetric cylinder to prevent inadvertent administration when not being used with an infusion pump.

#### Reference

## **Intravenous Pressure Infuser - No.** 185

#### **Minimum requirements**

#### Intravenous pressure infuser bags shall:

- 1. have an infusion sleeve for an intravenous solution bag that can be pressurized to increase flow rate;
- 2. have a pressure limiter to prevent over inflation;
- 3. have a pressure gauge that is easy to read in low-light conditions;
- 4. be made of material that permits visualization of the IV solution;
- 5. be capable of attaching to an IV pole while securing the intravenous solution;
- 6. be capable of rapid deflation;
- 7. be easy to clean and disinfect, or be disposable.

#### Reference

## Intravenous Solution (0.9% Sodium Chloride) - No. 190

#### **Minimum requirements**

#### **Intravenous solutions shall:**

- 1. be disposable after one use;
- 2. be a physiological solution of 0.9% Sodium Chloride, containing 154 mEq/L of sodium+ and chloride;
- 3. have at least one sealed medication port;
- 4. have a sealed drip set attachment port;
- 5. be supplied in a sealed double bag;
- 6. have easily readable volume calibration;
- 7. be contained in material that is transparent;
- 8. be sterile:
- 9. be labeled with volume enclosed;
- 10. have the expiry date clearly indicated on the package.

#### Reference

ISO 15747:2003

## Irrigation Fluid - No. 195

#### **Minimum requirements**

Irrigation fluid includes USP approved Sterile Saline or Sterile Water.

#### If in a bottle, the bottle shall:

- 1. have a leak-resistant closure;
- 2. be labelled "For Irrigation or Injection Purposes Only".

#### If in a bag, the bag shall be:

- 1. double-bagged;
- 2. labeled "For Irrigation or Injection Purposes Only".

#### Reference

The United States Pharmacopeia (USP)

## Laryngoscope, Handle & Blades - No. 200

### **Minimum requirements**

### Laryngoscope handles & blades shall:

- 1. possess a lock fitting if the blade and handles are separate;
- 2. be available in sizes to accommodate patients from infant to large adult;
- 3. be made of material that can easily be cleaned and disinfected, or be disposable;
- 4. have a textured, non-slip surface on the handle;
- 5. have an energy source (*e.g.* battery).

### Reference

ISO 7376:2003

### **Lifting Chair - No. 205**

### **Minimum requirements**

### Lifting chairs shall:

- 1. be manufactured with materials that can be easily cleaned and disinfected;
- 2. have non-slip handgrips on all carrying handles;
- 3. have wheels, or tracks, or other method to roll the device;
- 4. have patient securing straps (MOH Standard #210)
- 5. have the following dimensions/tolerances:
  - a. be capable of carrying, as a minimum, the weight of a 90th percentile male;
  - b. physical dimensions of the lifting chair to accommodate, as a minimum, a 90th percentile male.

### Reference

ISO 7176-24:2004

Canadian Community Health Survey

## Lifting Chair, Restraining Straps - No. 210

### **Minimum requirements**

### The lifting chair restraining system shall:

- 1. consist of two (2) quick release press mechanism "Tang & Receiver" assemblies, [one (1) set to secure the chest/torso, attached to the chair back, one (1) set attached to the seat, to secure patient's upper legs];
- 2. be constructed of materials that are easily cleaned and disinfected, minimum two inches in width:
- 3. have a minimum extended Tang and strap length of 114 cm (45 inches);
- 4. have a minimum extended Receiver and strap length of 38 cm (15 inches);
- 5. be capable of restraining, as a minimum, the weight of a 90th percentile male.

### Reference

ISO 7176-24:2004

Canadian Community Health Survey

### Magill Forceps - No. 215

### **Minimum requirements**

### Magill forceps shall:

- 1. be made out of corrosion resistant medical grade stainless steel or plastic;
- 2. possess a bent blunt tip forceps;
- 3. have an eye on the blunt end with a ridged area on the facing surface areas;
- 4. be designed to conform to adult and pediatric anatomy;
- 5. reach the base of the hypopharynx under direct laryngoscopy;
- 6. be easy to clean and disinfect, or be disposable.

### Reference

ASTM F1638-95(2008) E1

### Mass Casualty Incident Kit - No. 220

### **Minimum requirements**

The Mass Casualty Incident Kit shall contain the following:

	<b>Equipment Description</b>	EHRAB Standard No.	Minimum Quantity
1.	light sticks	N/A	6
2.	markers, permanent ink	N/A	2
3.	multi-casualty incident (MCI) reference card	N/A	1
4.	site co-ordinator vest	N/A	1
5.	Transport Canada Emergency Response Guidebook	N/A	1
6.	triage tags	N/A	50

The above components shall be contained in a readily identifiable kit.

### Reference

### Metered Dose Inhaler (MDI) Aerosolization Adapter - No. 225

### **Minimum requirements**

### MDI adapters shall:

- 1. include a 15 mm compatible adapter for use with endotracheal tubes and bag-valve-mask respirators;
- 2. accept plastic or metal tipped MDIs;
- 3. be designed to optimize medication delivery;
- 4. provide a direct medication route;
- 5. be capable of being used within an ETT circuit;
- 6. be rigid or collapsible;
- 7. be constructed of transparent materials;
- 8. be disposable;
- 9. be individually packaged and sealed;
- 10. be sterile.

### Reference

ISO 5361:1999

## Metered Dose Inhaler (MDI), Valved Holding Chamber - No. 230

### Minimum requirements

### MDI valved holding chambers shall:

- 1. have a universal MDI adapter;
- 2. have a size-optimized chamber;
- 3. have a standard 22 mm outside diameter for tracheal tube connections;
- 4. have a valve system and exhaust ports to prevent exhaled air from entering the chamber;
- 5. have adult and pediatric silicone masks or mouthpiece;
- 6. be constructed of crush-resistant polymer material;
- 7. be easy to clean and disinfect.

### Reference

ISO/DIS 27427:2009

## Nebulized Medication Delivery Mask - No. 235

### Minimum requirements

### The nebulized medication delivery mask shall:

- 1. be disposable;
- 2. be constructed of transparent medical grade material;
- 3. be an "under-chin" style;
- 4. be available in adult and pediatric sizes;
- 5. include oxygen supply tubing (MOH Standard #285);
- 6. be individually packaged;
- 7. be capable of nebulizing liquids at a rate of 1 ml per minute at 6 litres per minute of oxygen flow;
- 8. have a detachable medication chamber that holds a minimum of 5 millilitres of fluid.

### Reference

ISO/DIS 27427:2009

### Needles - No. 240

### **Minimum requirements**

#### **Needles shall:**

- 1. be disposable after one use;
- 2. be provided in three sizes (#18, #22, and #25 G);
- 3. have blunt tip (non-coring) for #18 G;
- 4. have beveled end needles with the exact gauge outside diameter for #22 G and available in 1½ inch size;
- 5. have beveled end needles with the exact gauge outside diameter for #25 G and available in both 1 inch and 5% inch sizes;
- 6. be supplied with a protective plastic sheath;
- 7. have an easy identifiable label and/or coding system (*i.e.* colour) to indicate size;
- 8. have a leak-proof twist-lock fitting to attach syringes or IV tubing;
- 9. be sterile.

### Reference

ISO 9626:1991

O. Reg. 474/07: Needle Safety under the Occupational Health and Safety Act

### **Obstetrical Kit - No. 245**

### **Minimum requirements**

The obstetrical kit shall contain the following (items that shall be packaged sterile are identified):

	Equipment Description	EHRAB Standard No.	Minimum Quantity
1.	alcohol preps	N/A	2
2.	blanket, receiving, heat retaining, 100% cotton flannelette, white, with no tattered edges	N/A	1
3.	forceps, sterile, disposable	N/A	2 pairs
4.	gauze pads, sterile (minimum 10 cm x 10 cm)	N/A	1
5.	gloves, sterile	<u>140</u>	2 pairs
6.	incontinent pad, sterile and disposable (approximately 60 cm x 120 cm)	N/A	1
7.	obstetrical pad, sterile	N/A	1
8.	obstetrical towelettes	N/A	2
9.	plastic bags	N/A	2
10.	scissors, blunt-tipped, sterile, disposable	N/A	1 pair
11.	suction device (manual) meeting current AHA guidelines for neonatal suctioning	N/A	1
12.	towels, disposable	N/A	4
13.	twist ties (to secure bags)	N/A	2
14.	umbilical cord clamps, sterile	N/A	2

### The obstetrical kit container shall be:

- 1. constructed of sturdy, crush-resistant material;
- 2. able to be safely stored and secured in the vehicle;
- 3. labeled "Obstetrical Kit" with the contents itemized;
- 4. labeled with expiry date;
- 5. sealed in a way to ensure contents remain clean and sterile, where applicable.

### Reference

AHA Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care, 2015

### Oxygen Cylinder, Portable - No. 247

### **Minimum requirements**

### The portable oxygen cylinder shall:

- 1. be capable of containing at least an equivalent volume of oxygen to provide continuous therapy for a period of no less than 20 minutes, calculated at a rate setting of 12 liters per minute;
- 2. be compatible with the oxygen pressure regulator requirements in MOH Standard #275.

### Reference

### Oxygen Cylinder(s), Vehicle - No. 248

### **Minimum requirements**

### The vehicle oxygen cylinder(s) shall:

- 1. be capable of containing at least an equivalent volume of oxygen to provide continuous therapy for a period of no less than 3.5 hours, calculated at a rate setting of 12 litres per minute;
- 2. be compatible with the oxygen pressure regulator requirements in MOH Standard #280.

### Reference

### Oxygen Flowmeter, Vehicle - No. 250

### **Minimum requirements**

### The wall oxygen flowmeter shall:

- 1. comply with current CGA specification where not otherwise detailed within these minimum requirements;
- 2. fit within the ambulance conversion design;
- 3. be constructed of materials compatible with high pressure oxygen use;
- 4. have input connections that conform to current international standards and be female 9/16 inch diameter index safety system (DISS) hand or wrench-tight style;
- 5. ensure any additional working pressure outlets are equipped with (9/16 inch) DISS "check-valve" fitting to prevent the escape of oxygen should the fitting not be connected to ancillary equipment;
- 6. be backpressure compensated and calibrated to provide a minimum 0 15.0 litre per minute flow range. "Flush" flow shall be at least 75 litres per minute. Flow rates shall be maintained with a +/- 10% band of tolerance across the operating range of the cylinder (2,200 psi 500 psi);
- 7. have the flowmeter free flow outlet be male 9/16 inch DISS located at the bottom of the Thorpe tube, and compatible with commercially available "barb-style" nipple adapters and humidifiers;
- 8. include an operator's manual and a manufacturer's test sheet indicating final performance values.

### Reference

## Oxygen Mask, Adult High Concentration - No. 255

### **Minimum requirements**

### Adult high concentration oxygen masks shall:

- 1. be disposable;
- 2. be constructed of transparent medical grade material;
- 3. be individually wrapped;
- 4. include oxygen supply tubing (MOH Standard #285);
- 5. provide high concentration oxygen (minimum 90%) at a 10-15 litres per minute flow rate of oxygen.

### Reference

## Oxygen Mask, High Concentration/Low Flow - No. 260

### **Minimum requirements**

### High concentration/low flow oxygen masks shall:

- 1. be disposable;
- 2. be constructed of transparent medical grade materials;
- 3. be individually wrapped;
- 4. be outfitted with or be capable of being outfitted with a hydrophobic submicron filter on the exhaust port;
- 5. include oxygen supply tubing (MOH Standard #285);
- 6. be capable of providing a minimum oxygen concentration of 80% with an oxygen flow rate of 8 litres per minute or less.

### Reference

## Oxygen Mask, Pediatric Simple - No. 265

### **Minimum requirements**

### Pediatric simple oxygen masks shall:

- 1. be disposable;
- 2. be constructed of transparent medical grade material;
- 3. be individually wrapped;
- 4. include oxygen supply tubing (MOH Standard #285);
- 5. provide minimum oxygen concentrations of 40-60%, at an 8-10 litres per minute flow rate of oxygen.

### Reference

### Oxygen Nasal Cannula - No. 270

### **Minimum requirements**

### Oxygen nasal cannulas shall:

- 1. be disposable;
- 2. be constructed of crush-resistant and kink-resistant medical tubing;
- 3. be individually packaged;
- 4. be a minimum of 2 m (7 ft) in length or compatible for use with oxygen supply tubing (MOH Standard #285);
- 5. be capable to provide a range of oxygen concentrations between 24% and 44%, at oxygen flow rates of between 2 to 6 litres per minute.

### Reference

## Oxygen Pressure Regulator, First Response Kit - No. 275

### **Minimum requirements**

### Oxygen pressure regulators shall:

- 1. reduce the operating pressure from the high (2,200+ psi) pressure in an oxygen cylinder, to the consistent static working pressure necessary for the oxygen delivery equipment being used;
- 2. be constructed of materials that are CGA approved for high pressure oxygen use;
- 3. have input connections that conform to CGA standards and be "pin-indexed" for oxygen;
- 4. have a pin indexed yoke attachment that is a "T-Bar" handle or knob secured to the regulator body;
- 5. have at least one working pressure (55 psi) outlet, capable of supporting an automatic transport ventilator;
- 6. ensure that where applicable, additional working pressure (55 psi) outlets are equipped with 9/16 inch diameter index safety system (DISS) "check-valve" fitting to prevent the escape of oxygen when not connected to other equipment;
- 7. have a cylinder contents gauge marked in both "psi" and "bar" values and provide a clearly visible indicator of the need to refill the cylinder;
- 8. be equipped with a protective "gauge guard";
- 9. provide output performance from the 9/16 inch DISS outlet(s) with a minimum output pressure of 45 psi at a 100 litre per minute flow rate across the operating range of the cylinder (2,200 psi 500 psi);
- 10. have a therapy free flow control providing flow rates between 2.0 15.0 litres per minute (or equivalent). Flow rates shall be maintained within a  $\pm 10\%$  band of tolerance across the operating range of the cylinder (2,200 psi 500 psi);
- 11. have a therapy free flow outlet that is a "barb-style" which is compatible with oxygen supply tubing meeting MOH Standard #285.

NOTE: Oxygen regulators intended for aeromedical use shall only be used in conjunction with devices intended and tested for the aeromedical environment.

### Reference

ASTM G175-03

**CGA** 

## Oxygen Pressure Regulator, Vehicle - No. 280

### **Minimum requirements**

### Oxygen pressure regulators shall:

- 1. be capable of reducing the operating pressure from the high (2,200+ psi) pressure in an oxygen cylinder, to the consistent static working pressure necessary for the oxygen delivery equipment being used;
- 2. fit into the ambulance conversion design;
- 3. be constructed of materials that are CGA approved for high pressure oxygen use;
- 4. have input connections that conform to current international standards and have a CGA 540 nut and stem fitting for oxygen;
- 5. have at least one working pressure (55 psi) outlet, equipped with a 9/16 inch DISS male outlet. No check valve is required;
- 6. have the cylinder contents gauge marked in both "psi" and "bar" values;
- 7. provide output performance from the 9/16 inch DISS outlet(s) that maintain a minimum output pressure of 45 psi at a 100 litre per minute flow rate across the operating range of the cylinder (2,200 psi 500 psi);
- 8. include an operator's manual and a manufacturer's test certificate indicating final performance values.

### Reference

ASTM G175-03

**CGA** 

### Oxygen Supply Tubing - No. 285

### **Minimum requirements**

### Oxygen supply tubing shall:

- 1. be disposable;
- 2. be constructed of crush-resistant and kink-resistant medical grade material;
- 3. be a minimum of 2 m (7 ft) in length;
- 4. be able to facilitate connection with oxygen delivery supply and delivery devices;
- 5. be able to ensure unimpeded delivery of oxygen at a flow rate of 15 litres per minute to the patient.

### Reference

### Particulate Respirator Mask - No. 290

### **Minimum requirements**

### Particulate respirator masks shall:

- 1. be disposable;
- 2. have a system to affix the mask to the user's face that provides an adequate facial seal;
- 3. be fluid resistant to splash and splatter of blood and infectious materials;
- 4. fit a wide range of face sizes;
- 5. have a filter efficiency level of 95% or greater against particulate aerosols free of oil in a size range of .1 to >10 microns.

### Reference

NIOSH Standard 42 CFR 84 or better

## Qualitative End-Tidal CO<sub>2</sub> Detector - No. 295

### **Minimum requirements**

### Qualitative ETCO<sub>2</sub> detectors shall:

- 1. be disposable;
- 2. have an appropriately sized connector port on the patient and circuit end;
- 3. be capable of indicating the presence of CO<sub>2</sub> on a breath to breath response for no less than 30 minutes;
- 4. be packed sterile.

### Reference

### Restraining Straps, Cot - No. 300

### **Minimum requirements**

### The complete restraining system shall:

- 1. consist of two (2) complete two (2) piece "Tang & Receiver" assemblies, [i.e. two (2) shoulder, one (1) waist, and one (1) leg];
- 2. be constructed of materials that are easily cleaned and disinfected, minimum two (2) inches in width;
- 3. employ the automotive style "Tang & Receiver" fastening device configuration (quick release press mechanism);
- 4. have a minimum extended Tang and strap length of 114 cm (45 inches);
- 5. have a minimum extended Receiver and strap length of 38 cm (15 inches);
- 6. be capable, as a system, of restraining, as a minimum, ten (10) times the weight of a 90th percentile male.

### Reference

Canadian Community Health Survey

# Restraining Straps, Adjustable Break-away Stretcher & Spinal Board - No. 305

### **Minimum requirements**

#### The complete restraining system shall:

- 1. consist of two (2) complete two (2) piece "Tang & Receiver" assemblies, [i.e. two (2) shoulder, one (1) waist and one (1) leg];
- 2. be constructed of materials that are easily cleaned and disinfected, minimum two (2) inches in width;
- 3. have a minimum extended Tang and strap length of 122 cm (48 inches);
- 4. have a minimum extended Receiver and strap length of 33 cm (13 inches);
- 5. be capable of restraining, as a minimum, the weight of a 90th percentile male;
- 6. have quick release hooks that:
  - a. are corrosion resistant and have a spring loaded snap closure;
  - b. fit over a maximum 10 mm (3/8 inch) rod;
  - c. have a 360° swivel capability.

#### Reference

Canadian Community Health Survey

### Resuscitation Mask, Adult - No. 310

### **Minimum requirements**

#### Adult resuscitation masks shall:

- 1. be constructed of transparent, flexible medical grade materials;
- 2. have an ISO Standard 15 mm inside diameter and 22 mm outside diameter connection compatible with the oxygen delivery system;
- 3. be of a design that will seal effectively in a wide variety of facial shapes and sizes;
- 4. have a valve capable of allowing the introduction of additional air or to remove air from the cuff if equipped with an inflatable cuff;
- 5. be capable of being cleaned and disinfected, or be disposable.

### Reference

## Resuscitation Mask, Pediatric - No. 315

### **Minimum requirements**

#### Pediatric resuscitation masks shall:

- 1. be constructed of transparent, flexible medical grade material;
- 2. be available in pediatric and infant sizes that will seal effectively in a wide variety of facial shapes and sizes;
- 3. have an ISO Standard 15 mm inside diameter and 22 mm outside diameter connection compatible with the oxygen delivery system;
- 4. have a valve capable of allowing the introduction of additional air or to remove air from the cuff if equipped with an inflatable cuff;
- 5. be capable of being cleaned and disinfected, or be disposable.

### Reference

### **Sharps Container - No. 320**

### **Minimum requirements**

### The sharps container shall:

- 1. be of puncture resistant construction;
- 2. be manufactured of materials capable of being incinerated;
- 3. have temporary and permanent lid closure capability;
- 4. have tapered slots and bevelled edge openings that allow for safe disposal of needles, plus include one all-purpose opening;
- 5. be labeled with a "Biohazard" label, the colour of which is consistent with current legislative requirements;
- 6. not contain colouring with heavy metals.

### Reference

ISO/NP 23908-3

## Spinal Board, Quick Connect - No. 325

### **Minimum requirements**

### The quick connect spinal board shall:

- 1. be constructed of material able to support a minimum 182 kg (400 lbs) weight when supported at ends;
- 2. have a surface finish that can be cleaned and disinfected;
- 3. be capable of carrying, as a minimum, the weight of a 90th percentile male;
- 4. be capable of allowing easy access to handholds with minimum pinch hazards;
- 5. have each anchor pin for the straps rated at a minimum pull strength of 136 kg
- 6. (300 lbs);
- 7. be capable for use with restraining straps (MOH Standard #305);
- 8. have a sufficient number of hand slots to be able to lift the spinal board safely;
- 9. have all edges, including hand slots smooth and impervious to workplace fluids;
- 10. have the following dimensions/tolerances:
  - a. physical dimensions of the spinal board to accommodate, as a minimum, a 90th percentile male.

### Reference

ASTM F1557-94(2007)

Canadian Community Health Survey

## **Spinal Immobilization Extrication Device - No. 330**

### **Minimum requirements**

### The spinal immobilization extrication device shall:

- 1. be of a wrap-around design which facilitates safe patient handling;
- 2. be constructed of materials that are easily cleaned and disinfected;
- 3. ensure vertical rigidity;
- 4. be fully adjustable to accommodate the maximum scope and array of field applications;
- 5. be capable of carrying, as a minimum, the weight of a 90th percentile male;
- 6. be x-ray translucent;
- 7. incorporate lifting handles on each side.

### Reference

ASTM F1556-94(2007)

Canadian Community Health Survey

## Splint, Multi-purpose/Malleable - No. 335

### **Minimum requirements**

### A multi-purpose splint shall:

- 1. be capable of being cleaned and disinfected, or be disposable;
- 2. be constructed of rigid material and have rounded edges;
- 3. be adjustable for arm or lower leg use in adults and arm or leg use in children;
- 4. be x-ray translucent;
- 5. be individually packaged with easy to understand instructions for use;
- 6. under normal use conditions, support and stabilize injured extremities and maintain alignment in as near neutral position as possible, or maintain the position of splinting.

#### A malleable splint shall:

- 1. be capable of being cleaned and disinfected, or be disposable;
- 2. be constructed of a semi-rigid material that will conform when applied to a patient's extremity, shall provide rigid support;
- 3. be x-ray translucent;
- 4. be individually packaged with easy to understand instructions for use;
- 5. under normal use conditions, support and stabilize injured extremities and maintain alignment in as near neutral position as possible, or maintain the position of splinting.

### Reference

ASTM F1555-94 (2007)

### **Splint, Traction - No. 340**

### **Minimum requirements**

### The traction splint shall:

- 1. be compatible with spinal boards and cots/stretchers carried in the ambulance;
- 2. be of a size and shape that can be safely and easily stored in the ambulance;
- 3. have a mechanism that allows the paramedic to determine and document exactly how much traction is being applied;
- 4. automatically adjust to degree of muscle spasm (counter force) in the leg in response to the traction being applied (dynamic traction);
- 5. allow for orthopedic and vascular assessment of a patient when applied;
- 6. be easily cleaned and disinfected.

### Reference

ASTM F1555-94 (2007)

## Stretcher, Adjustable Break-away - No. 345

### **Minimum requirements**

### The break-away stretcher shall:

- 1. be adjustable to accommodate patients of various sizes;
- 2. be equipped with quick connect pins with an individual pull rating of 136 kg (300 lbs) allowing the use of restraining straps (MOH Standard #305);
- 3. be capable of being safely stored in an ambulance;
- 4. have a surface that cradles the patient providing support and minimizing lateral movement;
- 5. be capable of carrying, as a minimum, the weight of a 90th percentile male;
- 6. be manufactured with materials that can be easily cleaned and disinfected;
- 7. have the following dimensions/tolerances:
  - a. the physical dimensions of the adjustable break-away stretcher to accommodate, as a minimum, a 90th percentile male.

### Reference

Canadian Community Health Survey

### Stretcher, Portable - No. 355

### **Minimum requirements**

### The portable stretcher shall:

- 1. include a transport surface of approved medical grade material that can accommodate the size of the 90th percentile male and have pole channels or handgrips;
- 2. be capable of carrying, as a minimum, the weight of a 90th percentile male;
- 3. have poles constructed of minimum 2.5 cm diameter tubing with non-slip handles at each end (if using poles);
- 4. have pole ends with reduced diameter and spring loaded pin locking mechanism. Poles to be minimum 188 cm (74 inches) long assembled, minimum 101.5 cm long disassembled (if using poles);
- 5. be manufactured with materials that can be easily cleaned and disinfected;
- 6. have the following dimensions/tolerances:
  - a. the physical dimensions of the portable stretcher to accommodate, as a minimum, a 90th percentile male.

### Reference

### **Suction Catheter - No. 360**

### **Minimum requirements**

#### Suction catheters shall:

- 1. be for single patient use and be disposable;
- 2. be constructed of medical grade material;
- 3. have a finger control valve to facilitate intermittent suctioning;
- 4. be individually packaged;
- 5. be available in the following sizes: #6F, #10F and #14F;
- 6. be approximately 40 55 cm in length;
- 7. be packaged as sterile in properly sealed packages capable of maintaining the integrity of the suction catheter under normal conditions of shipping and storage. The word "Sterile" shall be readily apparent on examination of the package.

### Reference

ISO 8836:2007

## Suction Tip, Wide Bore (Oral) - No. 365

### **Minimum requirements**

### Wide bore (oral) suction tips shall:

- 1. be disposable;
- 2. be constructed of appropriate medical grade material;
- 3. be a minimum 15 cm long;
- 4. have an internal diameter of approximately 1 cm at the distal end of the tip, and an external diameter at the proximal end to facilitate attachment of suction tubing;
- 5. have a thumb activated suction control port near the proximal end;
- 6. have a flexible and fluted distal end to facilitate safe suctioning;
- 7. be able to safely and efficiently clear the oropharynx of large particulate matter and other types of thick emesis and minimize risk of damage to the teeth and the soft tissues of the mouth and oropharynx;
- 8. be supplied clean and packaged to maintain the integrity of the suction tip under normal conditions of shipping and storage.

### Reference

ISO 8836:2007

### Suction Tip, Yankeur - No. 370

### **Minimum requirements**

### Yankeur suction tips shall:

- 1. be disposable and individually packaged;
- 2. be constructed of rigid, transparent, medical grade material;
- 3. have a thumb activated suction control port near the proximal end;
- 4. have a main inlet port at the distal end, with an opening of not less than 5 mm;
- 5. have an external diameter at the proximal end to facilitate attachment of suction tubing;
- 6. be able to safely and efficiently clear the oropharynx of mucus, fluid, liquid emesis and small particulate matter and minimize risk of damage to the teeth and the soft tissues of the mouth and oropharynx;
- 7. be supplied clean and packaged to maintain the integrity of the suction tip under normal conditions of shipping and storage.

### Reference

ISO 8836:2007

# Suction Unit, Collection Container (Vehicle) - No. 375

#### **Minimum requirements**

#### The collection container shall:

- 1. be compatible with vehicle mounted suction units currently in use in land ambulance vehicles:
- 2. be constructed of materials and designed to ensure no spillage or leakage of suctioned fluids or matter;
- 3. provide a sealed, airtight container for transport of potentially biohazardous material;
- 4. be disposable or allow cleaning and disinfection of all components that are not disposable.

#### Reference

ISO 8836:2007

## Suction Unit, Hand Operated - No. 380

#### **Minimum requirements**

#### Hand operated suction units shall:

- 1. be capable of rapid disassembly and assembly, if applicable;
- 2. be designed to minimize potential incorrect assembly;
- 3. continue to operate even when collection canister is full;
- 4. be compatible with industry standard suction catheters and connectors;
- 5. be operable by one (1) paramedic, using one hand;
- 6. have a minimum collection capacity of 200 ml;
- 7. have a suction tip, minimum 8 mm internal diameter;
- 8. have a suction tip designed to minimize risk of damage to the teeth and the soft tissues of the mouth and oropharynx;
- 9. be designed for use with the infant, child and adult patients;
- 10. provide a vacuum range that meets current AHA guidelines;
- 11. provide a minimum 20 litres per minute airflow;
- 12. be disposable or allow cleaning and disinfection of all components that are not disposable.

#### Reference

## Suction Unit, Portable Electric - No. 385

#### **Minimum requirements**

#### The portable electric suction unit shall:

- 1. be capable of being operated from an integral battery supply that will allow the unit to meet the minimum airflow and suction requirements listed in this standard for at least twenty (20) minutes of continuous operation;
- 2. be capable of operating utilizing the 12-V DC electrical system in an ambulance;
- 3. provide, with all tubing, filter(s) and collection containers connected, a minimum of 16 litres per minute airflow at 200 mmHg and 20 litres per minute airflow at 550 mmHg. Measurement shall be at the patient end of the suction tube;
- 4. provide a vacuum level of >300 mmHg to be reached within 4 seconds, with all tubing, filter(s) and collection containers connected. Measurement shall be made when the patient end of the suction tube is clamped;
- 5. include a vacuum control and shutoff mechanism, or combination thereof, to adjust vacuum levels and to discontinue aspiration instantly;
- 6. include a vacuum indicator with numerical markers at least every 100 mmHg and having a total range of 0 to 550 mmHg;
- 7. be provided with one (1) 2 metre length of suction tubing, that is translucent, non-kinking, will not collapse when subjected to a continuous minimum vacuum of 550 mmHg at a temperature of 45 degrees Celsius for a minimum of five (5) minutes;
- 8. include tubing and fittings in the airflow path not less than 6.4 mm in diameter;
- 9. include a disposable collection container system that resists breaking and is transparent. The container system shall have a minimum total capacity of 600 ml (single container or multiple containers). Each individual collection container shall have a minimum capacity of 300 ml. Collection containers shall be constructed of a material that is impact resistant. All containers, including those contained within a protective frame, shall not inhibit the viewing of the container's contents;
- 10. be equipped a hydrophobic submicron filter with a minimum viral and bacterial filtration efficiency of 99.99% at the exhaust end.

#### With regards to batteries and electrical power supply for the suction unit:

- 1. If the integral battery is rechargeable, it shall be rechargeable from the ambulance's 12V DC electrical system and from 115V AC. The 115-V AC charging system need not be integral to the portable suction unit.
- 2. The battery shall be rechargeable while installed in the aspirator case. Batteries shall not be physically disconnected in order to initiate their recharge.

- 3. External battery chargers shall be CSA approved for "Electro-medical Use" and bear the applicable CSA file number.
- 4. The suction unit shall include electrical cords and plugs that will interface within the ambulance conversion design.

#### Reference

ANSI / ISO10079.1

AHA Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care, 2015

## **Suction Unit, Tubing - No. 390**

#### **Minimum requirements**

#### Suction unit tubing shall:

- 1. be disposable;
- 2. be constructed from clear, non-conductive medical grade material;
- 3. be a minimum 182 cm in length (6 ft);
- 4. have a minimum inside diameter of 7.0 mm;
- 5. be capable of withstanding a vacuum of 560 mmHg without the walls collapsing.

#### Reference

### **Suction Unit, Vehicle - No. 395**

#### **Minimum requirements**

#### The vehicle suction unit shall:

- 1. be compatible with industry standard suction catheters, tubing and connectors;
- 2. have a bag type or collection jar system, minimum capacity of 1.0 litres, that allows for easy disposal of aspirate;
- 3. be supplied with a control panel complete with on / off switch that will control power supply, a 'power on' light, a vacuum gauge control switch and circuit breaker;
- 4. be supplied with a vacuum gauge that will register a minimum 0 550 mmHg;
- 5. allow a minimum 16 litre per minute airflow at 200 mmHg, and 31 litre per minute airflow at 550 mmHg.

#### Reference

ANSI / ISO10079.1

AHA Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care, 2015

# Symptom Relief Medications and Equipment - No. 400

#### **Minimum requirements**

Ambulance services shall utilize one (1) or more carrying cases for the purpose of transporting the required medications and administration supplies described in this standard.

Shall contain the following medications and equipment; along with any auxiliary medications as applicable:

	Equipment Description	EHRAB Standard No.	Minimum Quantity		
Medications					
1.	acetaminophen (960 – 1,000 mg/dose)	N/A	1920 mg		
2.	acetylsalicylic acid (ASA) (80 mg/tablet or 81 mg/tablet)	N/A	6 tablets		
3.	diphenhydramine	N/A	100 mg		
4.	epinephrine 1 mg/ml = 1:1,000	N/A	10 mg		
5.	glucagon	N/A	2 mg		
6.	glucose, oral (paste, tablets or other formulation) 15 g/dose	N/A	2		
7.	ibuprofen (400 mg/dose)	N/A	800 mg		
8.	ketorolac (10-15 mg/dose)	N/A	2 vials/amps		
9.	naloxone injection (0.4-0.8 mg/dose)	N/A	6 doses		
10.	nitroglycerin, lingual aerosol (0.4 mg/dose) OR nitroglycerin, tablets (0.3 or 0.4 mg/dose)	N/A	2 canisters <b>or</b> 2 bottles		
11.	salbutamol, inhalation aerosol (100 mcg/puff)	N/A	2 canisters		
12.	salbutamol, inhalation solution	N/A	25 mg total		
Equi	oment				
13.	alcohol preps	N/A	10		
14.	atomization device, intranasal	<u>012</u>	2		
15.	glucometer	<u>145</u>	1		
16.	metered dose inhaler (MDI), valved holding chamber	<u>230</u>	2		

	<b>Equipment Description</b>	EHRAB Standard No.	Minimum Quantity
17.	needles	<u>240</u>	2 each size
18.	syringe, medical	<u>405</u>	2 each size

#### Reference

## Syringe, Medical - No. 405

#### **Minimum requirements**

#### Medical syringes shall:

- 1. be disposable;
- 2. have molded syringe barrels and plunger rods with flexible stoppers;
- 3. be translucent for visibility of material quality and have visible graduated markings indicating fluid levels;
- 4. be made from biocompatible materials which are pharmacologically inert, chemically resistant, and non-toxic;
- 5. have a leak-proof twist-lock fitting;
- 6. be individually packaged;
- 7. be sterile:
- 8. be available in 1 ml, 3 ml, and 10 ml sizes.

#### Reference

ISO 7886-1:1993

### **Thermometer - No. 406**

#### **Minimum requirements**

#### Thermometers\* shall be:

- 1. capable of infrared non-contact or contact-based tympanic, temporal artery or oral thermometry;
- 2. accurate to +/- 0.2°C when measuring temperatures between 36°C and 39°C, and +/- 0.3°C when measuring temperatures less than 36°C or greater than 39°C, under an operating temperature range between 16°C and 33°C at minimum. Wider operating temperature ranges are acceptable;
- 3. approved for use in a professional clinical setting;
- 4. constructed of materials capable of being easily cleaned and disinfected; and/or be designed for single patient use as applicable.

\*NOTE: where available, onboard temperature monitoring devices associated with cardiac monitors may be used in place of portable/handheld devices, including core temperature monitoring devices.

#### Reference

ISO 80601-2-56: 2009

ASTM E1965-98

## **Thoracostomy Device - No. 410**

#### **Minimum requirements**

#### Thoracostomy devices shall:

1. consist of a 14 gauge catheter-over-needle with a minimum length of 6.35 centimetres (2.5 inches) **OR** be a similar device with the same minimum length and internal diameter.

#### Reference

## **Part C – Auxiliary Equipment Standards**



### Part C – Auxiliary Equipment Standards

## **Continuous Positive Airway Pressure Unit - No. A-910**

#### **Minimum requirements**

#### Continuous positive airway pressure (CPAP) units shall:

- 1. be driven/powered by oxygen with an anti-suffocation valve;
- 2. have independent adjustable settings CPAP pressure from 5 10 cm  $H_2O$ ;
- 3. have an airway pressure relief mechanism;
- 4. have the ability to provide a minimum FIO<sub>2</sub> of 50% with optional FIO<sub>2</sub> of 100% oxygen;
- 5. use a disposable circuit including mask and head harness for CPAP delivery;
- 6. include oxygen hose/tubing that will allow the device to be attached to an oxygen source at a minimum distance of two (2) metres;
- 7. have the ability to provide nebulized and/or metered dose inhaler medication;
- 8. have a method for attaching a hydrophobic submicron filter to decrease the risk of airborne contagion.

#### Reference

## Endotracheal Tube – Nasal - No. A-912

#### **Minimum requirements**

#### Nasal Endotracheal tubes shall:

- 1. be disposable;
- 2. have a 15 mm compatible adapter with push and twist connections;
- 3. be constructed of pliable, medical grade material that resists kinking and is transparent;
- 4. be designed to allow for insertion via the nasal pharynx into the trachea, with a guide to control the distal tip;
- 5. allow a full magill curve;
- 6. have a radiopaque line running the length of the tube;
- 7. have an angled cut end with an extra hole or eye;
- 8. have graduated measurement markers along the length of the tube;
- 9. have a high-volume, low-pressure cuff;
- 10. have a self-sealing cuff valve for inflating the cuff;
- 11. have a visual indicator to confirm the cuff is inflated;
- 12. be individually packaged and sealed;
- 13. be sterile:
- 14. be clearly labeled with size of endotracheal tube;
- 15. be stocked in the following sizes:
  - a. Cuffed Nasotracheal Tubes: #6, #7, #8

#### Reference

ISO 5361:2012

# Meconium Aspirator Adapter (Endotracheal Tube) - No. A-915

#### **Minimum requirements**

#### Meconium aspirator adapter tubing shall:

- 1. be disposable;
- 2. attach to an endotracheal tube;
- 3. have an internal diameter size of 15 mm;
- 4. have a thumb port that allows for intermittent suctioning;
- 5. be individually packaged;
- 6. be sterile.

#### Reference

## Restraining Straps, Folding Stretcher - No. A-918

#### **Minimum requirements**

#### The complete restraining system shall:

- 1. consist of two (2) complete two (2) piece "Tang & Receiver" assemblies, [i.e. two (2) shoulder, one (1) waist, and one (1) leg];
- 2. be constructed of materials that are easily cleaned and disinfected, minimum two (2) inches in width:
- 3. employ the automotive style "Tang & Receiver" fastening device configuration (quick release press mechanism);
- 4. have a minimum extended Tang and strap length of 114 cm (45 inches);
- 5. have a minimum extended Receiver and strap length of 38 cm (15 inches);
- 6. be capable, as a system, of restraining, as a minimum, ten (10) times the weight of a 90th percentile male.

#### Reference

Canadian Community Health Survey

## Stretcher, Folding - No. A-920

#### **Minimum requirements**

#### The folding stretcher shall:

- 1. be manufactured with materials that can be easily cleaned and disinfected;
- 2. fold in half longitudinally for easy storage;
- 3. have an adjustable back rest that allows patient positioning from supine to fully sitting;
- 4. have a telescoping handle at the head end that will manually telescope in when the head of the stretcher is raised or for storage and out when head is lowered and when in use;
- 5. have a minimum of two (2) fixed wheels with solid rubber, or better tires, one mounted at each of the head end corners of the frame;
- 6. allow for the use of restraining straps (MOH Standard #A-918);
- 7. be manufactured with materials that can be easily cleaned and disinfected;
- 8. have high visibility colour;
- 9. have the following dimensions/tolerances:
  - a. be capable of carrying, as a minimum, the weight of a 90th percentile male;
  - b. physical dimensions of the folding stretcher to accommodate, as a minimum, a 90th percentile male.

#### Reference

Canadian Community Health Survey

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