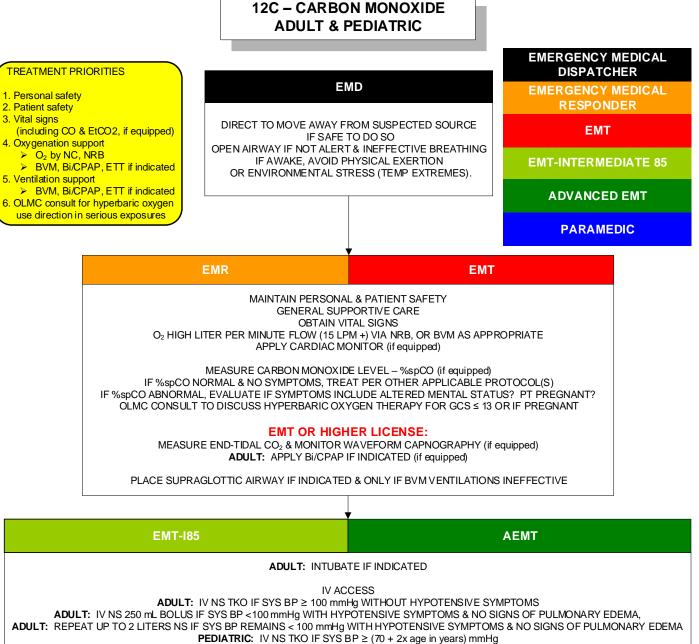




Approved 9/9/20, Effective 1/15/21, replaces all prior versions



PEDIATRIC: IV NS 20 mL/kg BOLUS IF SYS BP < (70 + 2x age in years) mmHg IF NO SIGNS OF PULMONARY EDEMA

PARAMEDIC

ADULT: MEDICATION ASSISTED INTUBATION IF INDICATED CONTINUOUS ASSESSMENT & TREATMENT PER APPLICABLE PROTOCOL(S)





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%SpCO	Expected Signs & Symptoms – * may not correlate w/ individual pt symptoms
0-3%	None - Normal
4-9%	Minor Headache (**Normal for Smokers)
10-19%	Headache, Shortness of Breath
20-29%	Headache, Nausea, Dizziness, Fatigue
30-39%	Severe Headache, Vomiting, Vertigo, AMS
40-49%	AMS, Syncope, Tachycardia
50-59%	Seizures, Shock, Apnea, Coma
60% +	Coma, Death

### Technique (Masimo RAD-57<sup>™</sup> - see protocol Special Note):

### Fingertip Sensor Placement Using Light Shield:

- Using the light shield with correct placement of finger is
  <u>VERY IMPORTANT</u> for accuracy of reading.
- Clean and dry finger.
- Orient equipment and finger to replicate diagram.
- When possible, use ring finger, non-dominant hand (using the dominant hand of smokers has been shown to result in higher level readings that do not correlate with body-wide levels of CO).
- Insert finger until the tip of finger hits the stop block.
- Sensor should NOT rotate or move freely on finger.
- LED's (red light) should pass through mid-nail, not cuticle.
- Connecting cable should be on top (nail side).







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### PROTOCOL 12C: Carbon Monoxide, cont.

### Startup Sequence:

- Place sensor on finger (clean/dry skin)
- Press "POWER" button
- Verify all LED's light up and a 1 second tone is heard
- Startup mode begins
- All preset configurations are displayed
- Scrolling zeroes 0 0 0 and flashes dashed lines
- May take up to 25 seconds
- Do not move sensor during startup
- When complete, reading is displayed
- Begin patient monitoring
- Defaults to pulse rate and oxygen saturation reading
- "PI" bar graph displays strength of arterial perfusion

Power Button. Press "ON", Hold for "OFF"

Each green LED window below Power Button that illuminates indicates 25% battery power

### Operation / Pulse Oximetry & Pulse Rate:

- Displays after startup sequence described above
- Oxygen Saturation on top in red numbers
- Pulse Rate on bottom in green numbers
- Low Signal I.Q.<sup>®</sup> (SIQ) LED lit indicates poor pulse ox signal quality - evaluate finger/sensor, use alternate finger
- Press "DISPLAY" to display %spCO

Press "Bell" to silence alarms (if needed)





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#### Operation / Carbon Monoxide (Carboxyhemoglobin) Measurement:

- Press "DISPLAY" button as described above to toggle display to show %SpCO reading (to toggle back to pulse oximetry and pulse rate mode, press "DISPLAY" again).
- Carboxyhemoglobin displayed in % on top in numbers.
- "CO" displayed on bottom confirming mode.
- Real-time SpCO indicator continuously reads SpCO.
- Confirm abnormal readings by taking several measurements on different fingers and average the readings.

#### Operation / Troubleshooting:

Error Messages:

- "NO Cbl" = cable not seated properly into device or defective cable
- "SEN OFF" = sensor off finger or misaligned
- "bAd CbL" = defective cable (cable most likely needs replaced)
- "CbL" = incompatible cable (change to appropriate cable)
- "bAd SEN" = defective sensor (sensor most likely needs replaced)
- "SEN" = unrecognized sensor (change to appropriate sensor)
- "Err" = return for service

Will not power on = check battery compartment and replace batteries.

Continuously in startup mode (Scrolling zeroes 0 - 0 - 0 and flashes dashed lines) = shield sensor from flashing lights, strobes or high ambient light with Light Shield (best accurate practice is to always use the Light Shield); try another finger.

Using Physio-Control LifePak® 15 with Masimo sensing to measure %SpCO:

- Power on, connect pulse oximetry cable to monitor/defibrillator and sensor, place sensor on patient..
- To display %SpCO, use the SPEED DIAL to select the pulse oximetry display area.
- Select PARAMETER from menu.
- Select SpCO. Selected value displays for 10 seconds. If %SpCO is elevated, an advisory event occurs and elevated value flashes and alarm tone sounds.

