IREDELL COUNTY EMS

ZOLL CAPNOGRAPHY INSTRUCTIONS

I. At the beginning of each shift the monitor must be check to ensure it is still calibrated. To do this you must do the following:

A) Turn-on the monitor and allow the capnography to warm-up. The monitor will display "warm-up" on the screen for about 2 minutes and 30 seconds as seen in figure 1.1. The monitor can be used in the warm-up phase, but not the capnography.

Figure 1.1

B) Place the capnography sensor on the zero eye on the cable as shown in figure 1.2

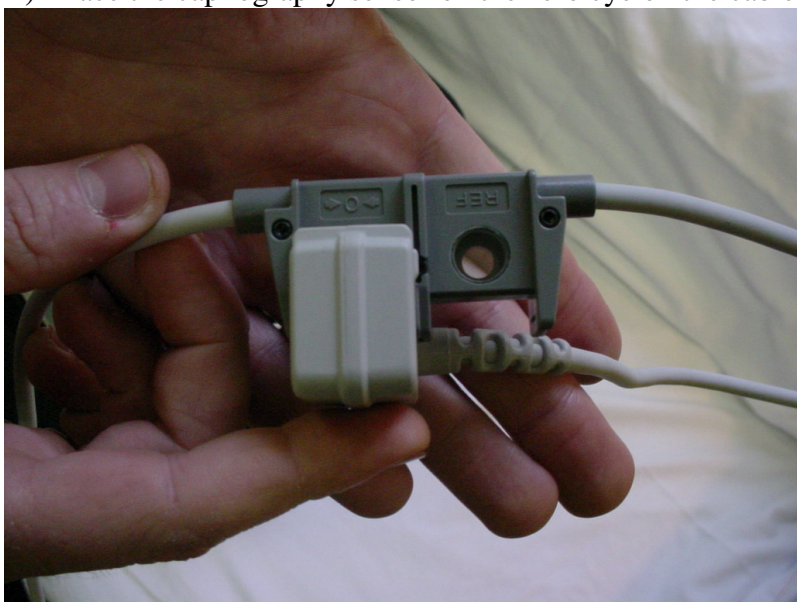

Figure 1.2

C) Depress the Param soft key on the face of the monitor below the display screen as shown in figure 1.3

Figure 1.3

D) With EtCO2 highlighted press the enter soft key (Figure 1.4) and you will be presented with the options along the bottom of the monitor screen of Zero / Average / Comp. / / Return. Press the zero soft key. Then press the enter soft key.

Figure 1.4

E) If the monitor is already calibrated you will receive a message on the screen saying “use room air adapter” (figure 1.5). If it is not it will begin zeroing the monitor (figure 1.6)

Figure 1.5

Figure 1.6

F) If you receive the Use Room Air Adapter message place the “dummy” room adult room air adapter on the capnography sensor as shown in figure 1.7. The dummy adult room air adapter is signified by the white tape wrapped around it.

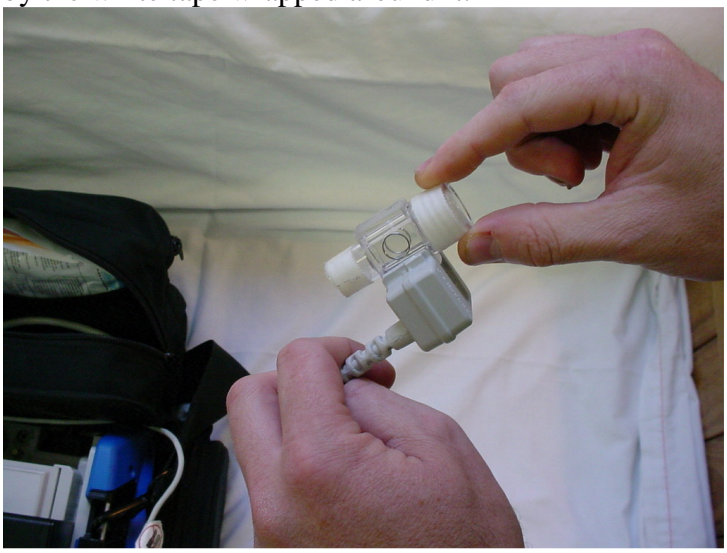
Figure 1.7

G) Once you have placed the adult room air adapter on the sensor you must press the enter soft key again, you will receive a message saying “zeroing CO2 adapter.” On the monitor screen as seen in figure 1.8

Figure 1.8

H) You will know you have been successful in zeroing the room air adapter when the monitor stops displaying the "zeroing CO2 adapter" message on the screen. The audible beeping will stop also.

II. **Now you are ready to monitor a Patient using Zoll capnography following these directions:**

I) One you have your patient intubated and are ready to apply capnography you place the room air adapter on the end of the ET tube and place the sensor on the adapter as shown in figure 1.9.

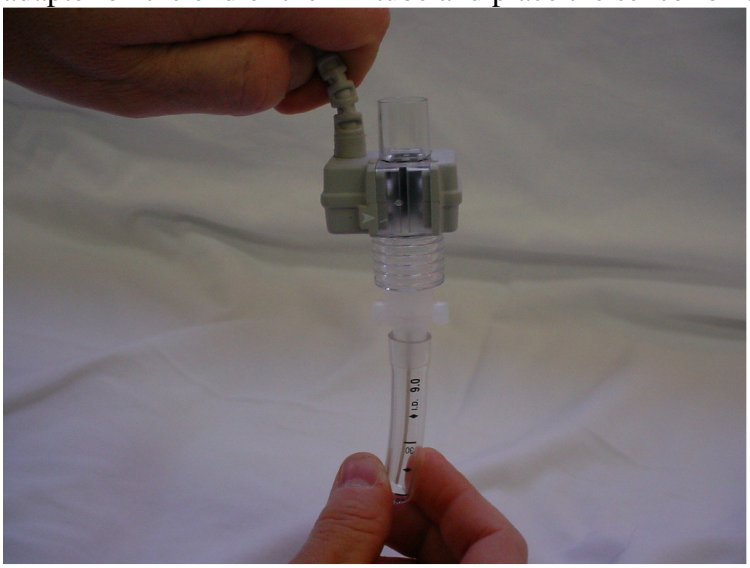
Figure 1.9

III. **A few helpful hints for successful monitoring:**

1. When switching from the "dummy" adapter to the adapter to be used on the patient, the monitor may show the message "Zero CO2 adapter?" on the screen. The monitor has seen the removal of the "dummy" and it will take a second or two to recognize that you have placed a new adapter in. Please ignore the message it will stop displaying in a second or two.

2. If you have a patient that is conscious and breathing, that you want to check capnography in you must use the mouth piece on that comes with the adapter as shown in figure 2.0.


Figure 2.0

3. In order to see the waveform on the monitor screen you must press the Wave 2 soft key on the face of the monitor as seen in figure 2.1.

Figure 2.1

4. If you wish to print a tracing of the waveform you must have the waveform displayed on the screen (Figure 2.2), then press record to print a tracing of the EtCO2 waveform. It does not matter if you are using the pads or not it will print the EtCO2 waveform.

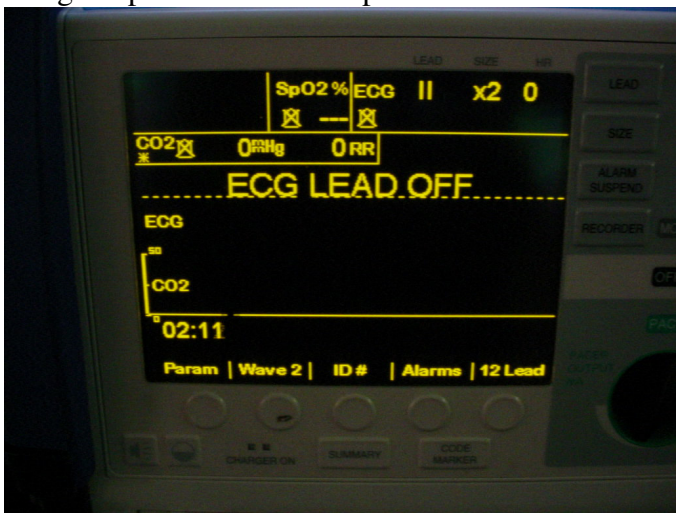

Figure 2.2

5. If you have a neonate intubated and want to use capnography, then you must use the neonate room air adapter. This adapter is smaller than the adult and is colored purple. When using the neonate adapter you must re-zero the monitor to the neonate adapter.

Once the monitor is on and warmed-up, remove the adult “dummy” adapter, place the neonate adapter on the sensor, press the param soft key, press enter for EtCO2, press zero, press enter, and the monitor will zero to the neonate adapter. Once it has finished zeroing the monitor will stop flashing the message “Zeroing CO2 Adapter” and the intermittent beeping will stop. You are now ready to use the neonate adapter on your intubated patient. Remember once this call is finished you must re-zero the monitor back to the adult adapter. You do this by following the above steps out lined in #5 but use the dummy adapter instead of the neonate adapter.