LifePack 15
Best Practices and Helpful Info

- **On/Off:**
  - Press and hold to turn off
  - Buttons harder to push to prevent accidental turning on or off

- **Battery:**
  - Lithium Ion
    - Does not develop memory
    - Conditioning not required
    - 6 hours of monitoring with 2 batteries
    - Battery does not drain outside of charger
    - Older or heavily used batteries lose charge capacity. If a battery fuel gauge indicates fewer than four LEDs immediately after completing a charge cycle, the battery has reduced capacity. If the battery fuel gauge shows two or fewer LEDs after the battery completes a charge cycle, the battery should be replaced.

- **Storage Pouch:**
  - Single open area with option to Velcro a divider inside
  - Leave pouch open to allow for a bigger loop when storing the limb leads and preventing breakage
  - Store BP cuff on top of lead loop
  - Recommended to leave cords connected when monitor is not in use
  - Outside case covers the connectors and protects them.

- **VS Monitoring:**
  - **BP Monitoring:**
    - Defaults to 160 mmHg systolic when inflating
    - If pt BP is >160 mmHg, it will increase in 30 mmHg increments to a max of 250 mmHg systolic
    - If BP >255 mmHg it will show “xxx” in the BP box
    - If you are taking a BP on a pediatric, you will need to decrease the Default Initial Cuff Pressure to 100 mmHg (scroll to BP box, click with selector knob and change setting)
      - Blood Pressure Systolic Pressure Range: 30 to 255 mmHg
      - Diastolic Pressure Range: 15 to 220 mmHg
      - Pulse Rate Range: 30 to 240 pulses per minute
      - Initial Cuff Pressure: User selectable, 80 to 180 mmHg
      - Automatic Measurement Time Interval: User selectable
      - Automatic Cuff Deflation Excessive Pressure: If cuff pressure exceeds 290 mmHg
  - **SpO2 Monitoring:**
    - Four sensors come with monitor:
      - Adult – Pulse Ox & Rainbow
      - Pediatric – Pulse Ox & Rainbow
      - Rainbow Sensor (Red marking on finger piece)
        - Monitors SpO2, CO2 AND Methemoglobin
        - Audible alarm will sound at CO2 > or = to 10 (this is indicative of an exposure)
        - Verify in 2 additional fingers if alarm sounds
        - Pulse Ox Sensor (Gray marking on finger piece)
          - Monitors only SpO2
    - USE GRAY PULSE OX SENSOR FOR NON-CO RELATED EVENTS
    - Placement for both is critical
      - Place on ring finger of non-dominant hand
        - Gets least used/calloused and has best perfusion
        - Squeeze wings on sides of connector to connect and disconnect
      - Both sensors see through nail polish except black and dark purple
      - If Spo2 reads "poor quality signal", external lighting could be interfering with the sensor
        - If this occurs, place black sleeve (included with monitor) over the sensor to block the light
Capnography (EtCO2):

- Monitoring
  - Display
    - Monitor shows the maximum CO2 values over the last 20 seconds
    - If the EtCO2 values are increasing a change is seen with every breath
    - If values are decreasing, it will take up to 20 seconds for a lower value to be displayed
    - Because of this, the EtCo2 might not always match the level of the waveform

- Alarms
  - EtCO2 alarms controlled by activating ALARMS
  - Apnea alarm occurs when a breath has not been detected for 30 seconds
    - The message ALARM APNEA appears in the message area along with the time of the last detected breath

- Detection
  - If CO2 is not detected (i.e. Cardiac Arrest) the display will show dashes, or a flat solid line at or near 0
    - Check for equipment issues
    - Loss of airway function
    - Physiological factors
  - Be sure to insert the filter line into the LP15 and TWIST clockwise to lock into place
  - Improperly seated filter line will lead to fluctuation values

12-Lead Monitoring:

- Continuously monitors all 12-leads in the background, and alerts you to changes with an automatic print out, after acquiring the initial 12-lead
- STJ values are now included on 12-lead print out to help identify changes
- ST segment trending is continuous when the limb and precordial leads are attached to the patient
  - The device will print a 12 lead when the J point deviates from the initial measurement >1 mm
- Verbiage on printout has changed to “Meets ST Elevation MI Criteria”
- Clip to attach leads to pillow or pt clothing to lessen pull on electrodes

Pacer Function:

- Automatically defaults to non-demand pacing as a back-up if a limb lead comes off (so you won’t lose capture)
- PAUSE button allows you to continue pacing but see underlying rhythm

Defibrillator:

- Push selector knob to disengage charge
- Therapy cables NOT compatible with other LIFEPAK devices
  - Slide cable (right to left) into place until you hear a “click”

Miscellaneous:

- Press the “lightbulb” to activate the “sun view” when using the monitor in bright sunlight
- User test automatically run at 0300hrs and then turns itself off

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