5 BEST PRACTICES
FOR MEASURING CONTINUOUS BLOOD PRESSURE & HEMODYNAMICS

1. CHECK SYSTEM INTEGRITY

1. NIBP100D-HD
2. CNAP® Controller + cable
3. CNAP® Finger sensor (S, M, L)
4. NBP Cuff (XS, S, L, XL) + air hose

NOTE:
Proper sensor sizing is a prerequisite for getting good data!

2. INTERFACE TO BIOPAC DAQ SYSTEMS

Easy to combine & sync with other signals!

3. PLAN YOUR TEST

➤ EXPERIMENT DURATION
Estimate your total time [TT] including:
- Baseline
- Test duration
- Generous buffer

➤ CONFIRM TEST ALARM when starting up.

➤ ADJUST NIBP100D-HD SETTINGS to [TT] to avoid interruptions during your test:
- Set timers for finger sensor
  SETUP I MEASUREMENT I CNAP I Cal Interval
- NBP
  SETUP I MEASUREMENT I NBP I Measurement Type

➤ DISABLE ALARMING
SETUP I SERVICE I ALARM DEFAULTS

➤ SOFTWARE VERSION 3.5:
set NBP-Mode to “Manual!”
SETUP I MEASUREMENT I NBP: Mode
4. PERFORM DEVICE & SENSOR SETUP

1. Size the FINGERSENSOR using the indicator on the CNAP® Controller.
   NOTE: Make sure to align the proximal fingerlimb and NOT the fingertip!

2. Connect the FINGERSENSOR with the forearm controller, adjust slider in middle position (allowing arm movement), then firmly close the Velcro® strap.
   NOTE: Make sure the FINGERSENSOR is placed on proximal limb avoiding finger joints.

3. Size NBP cuff using the circumference indicator and place on subject’s arm.
   NOTE: Pay attention to brachial artery marker and pull tightly enough to allow two fingers to fit under the NBP cuff!

4. When changing body posture or exercise:
   - Keep finger sensor position at heart level using an arm sling.
   - Avoid forearm controller falling sideward using a Coban wrap or bandage around it.
   - Avoid bouncing arm around!

5. START MEASUREMENT & RECORD THE TEST

- Check perfusion index (PI) indicator at start of measurement.
  
  ![Perfusion Index Indicator]

  - good perfusion
  - no signal

  NOTE: If PI is low (red), check FINGER SENSOR SETUP (see pt.4.1, 4.2, 4.4).

- Check Blood Pressure over initial 3 minutes – in case of larger deviations (trending) newly calibrate with NBP (BP I NBP I Start).

- Avoid moving fingers and arm during test.

- Press STOP button after finishing data collection to remove sensors at the end of a test.

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