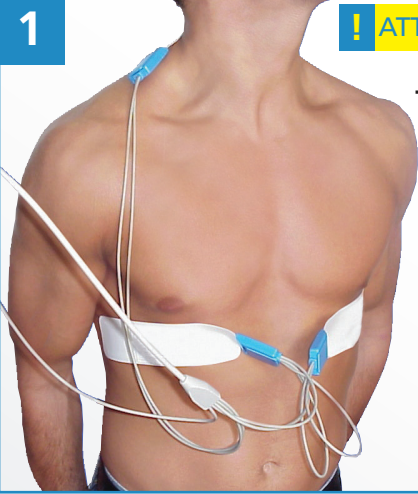


## ICG ELECTRODES

### > 3 band electrodes & 1 neutral for ICG


**1**



**! ATTENTION** *Disinfect skin before placing the electrode on dry skin (no petroleum ether!)*

**THORAX:** Place two of the three ICG electrodes at the lateral side of the thorax at the xiphoid-level

**2**




**NECK:** Place the third electrode on the patient's neck between hairline and shoulder.

**! ATTENTION** *Make sure that there is no hair under the electrode and that it does not crease!*

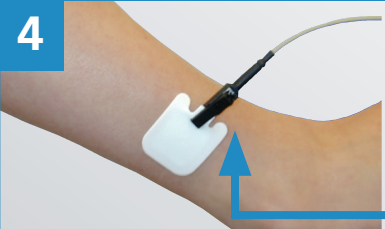
**3**

**CLIP:** Open the flaps of the blue clips of the ICG cable. Insert the narrow end of the electrode fully into the opened clip. Fix the end by closing the flap.

**! ATTENTION** *When inserting the electrode into the clip, the illustration on the clip must always be with head up! Do not mix up neck (long wire) and thorax clips (short wires)!*



**4**



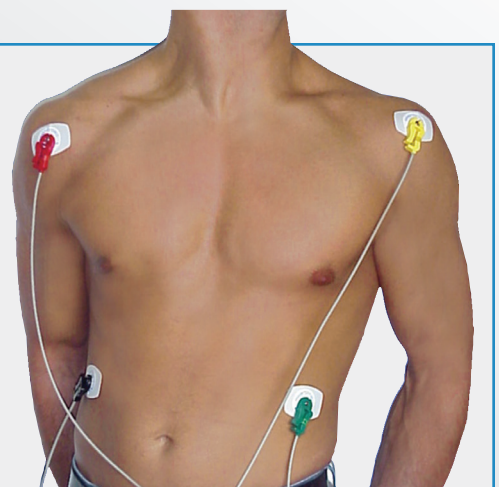
**LEG/ HIP:** Place the neutral electrode on the lower leg or on the hip of the patient and connect the electrode with the **black clip** of the ICG-cable.

## ECG ELECTRODES

### > 4 gel-electrodes for high resolution ECG:

**! ATTENTION** *Disinfect skin part before placing the electrodes on dry skin (no petroleum ether!)*

RED	Letter "R" on clip indicates "right" side
YELLOW	Letter "L" on clip indicates "left" side
GREEN	Letter "F" on clip indicates "foot" electrode
BLACK	Letter "N" on clip indicates "neutral" electrode



## FINGER CUFF

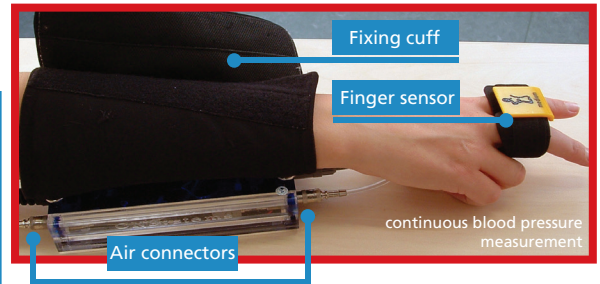
1



Choose the appropriate finger cuff out of the sizes **small, medium and large**.

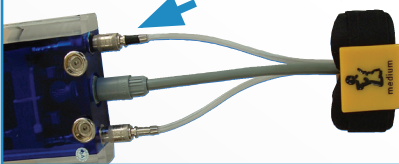
### ! ATTENTION

*The cuff should not be too tight or too loose as this influences the signal quality!*



2

Connect the finger cuff to the Vascular Unloading module (small blue box) by plugging the grey plug into the socket and connecting the two **air connectors** (connector with black mark to connection with black mark).



### ! ATTENTION

*All connectors are pushed in and pulled out. NEVER TWIST the connectors!*

### ! ATTENTION

*Ensure that the two air hoses do not cross one another.*

3



slide back fully!

Place the finger cuff on two fingers of the patient (proximal phalanx) and make sure that the air hoses run along the palm of the patient's hand.

### ! ATTENTION

*Make sure that the finger cuff is not placed over the patient's knuckles as this affects signal quality!*

4



Fasten the Vascular Unloading module to the patient's forearm using the **black Velcro cuff**.

## Completed Patient Set-Up



Version: 02/2014, V1.3.1 TFM Set-Up Guide, EN ; www.cnsystems.at

## UPPER ARM CUFF

1

Select the upper arm cuff according to the circumference of the patient's upper arm:

Small Adult = 17-25 cm

Adult = 23-33 cm

Large Adult = 31-40 cm



2

Place the cuff on the upper arm with the artery arrow mark (white) directly above the brachial artery between the biceps and triceps muscles on the inside of the arm.

The cuff should fit the upper arm tightly!

### ! ATTENTION

*The cuff must be placed contralaterally to the arm with the finger sensor!*

### ! ATTENTION

*Do not use the oscillometric blood pressure cuff on an arm which contains vascular implants!*

### ! ATTENTION

*The level of the finger with the finger cuff relative to the heart - must not change during the measurement.*



### TIPS FOR THE TFM MEASUREMENT



*If the beat-to-beat blood pressure signal cannot be detected, warming the hand, for example in warm water, can help. Try a change of fingers if you do not receive a signal.*



*Avoid movements of hands, fingers or arms during the measurement: use an arm board with the tilt table or an arm sling if the test will require a change of the patient's position (e.g. orthostatic tests).*



Arm sling

Restart

Pause

Record

Intervention

Stop



*Don't forget to press the **red record button** in the TFM software as soon as all signals are correctly displayed.*