

Placing Hydrogel Electrodes

Hydrogel electrodes can be placed either biparietally (if there is no hair) or frontally (forehead). An impedance of 5–7 kOhm should be achieved with the hydrogel electrodes when using this procedure.

Required Items

- Hydrogel electrodes
- Skin cleanser
- NuPrep™ skin prep gel
- 2x2 or 4x4 gauze pads



NOTE

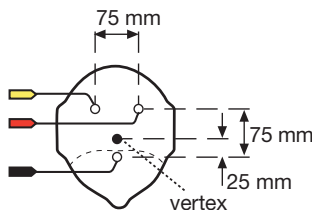
- Avoid using alcohol to clean the patient's skin as it may decrease contact between the patient and electrode, causing an increase in impedance.
- Never place any substance, including NuPrep, directly on the hydrogel electrode as they may add a barrier between the electrode and the patient, causing an increase in impedance.

Prepare the Patient's Head

1. Clean the electrode placement areas with a skin cleanser.
2. Use the gauze to apply a small amount of NuPrep to the patient's head at the electrode placement areas. Gently rub the area to remove the surface layer of dead skin and ensure good conductivity. Remove any remaining NuPrep from the patient's head.
3. Make sure the electrode placement areas are completely dry.

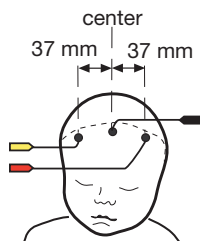
Continue to either biparietal or frontal placement steps, below.

Biparietal Placement



4. Locate the vertex and place the **BLACK** electrode 25 mm anterior.
5. Locate a point approximately 50 mm posterior to the vertex. Place the **RED** electrode approximately 37 mm to the left of this point, then place the **YELLOW** electrode approximately 37 mm to the right of this point.

Frontal Placement



This is an alternate electrode placement method; use if hair interferes with electrode placement.

4. Place the **BLACK** electrode on the center of the patient's forehead, as close to the hairline as possible.
5. Place the **RED** electrode approximately 37 mm to the left of the center electrode.
6. Place the **YELLOW** electrode approximately 37 mm to the right of the center electrode.



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