

### 1104G Catheter

To help prevent possible patient injury resulting from incorrect ICP measurements, follow the steps below before catheter implantation. Always make sure to adjust the catheter's ICP value to zero before implantation while the catheter is in the air. Never attempt to change the zero adjustment while the catheter is inside the patient.

#### Monitor setup

1. Connect the black fiber optic catheter cable (CAMCABL) to the ports on the Camino monitor
  - Attach the cable's ICP connector (P) into the port labeled ICP by aligning the red dot on the cable connector with the red triangle on the monitor's port and push firmly
  - Since temperature is not measured with the 1104G catheter, connection to the port labeled ICT is not required; the temperature value on the monitor will appear as two dashed lines
2. Identify the appropriate catheter by the label on the outside of the box (see picture of label on right)
3. Using sterile technique, remove the inner catheter tray from its sterile package and place in sterile field
4. Using proper technique to maintain sterility, connect the preamp connector at the end of the CAMCABL to the black transducer connector at the end of the catheter
5. Check the monitor display to determine the ICP reading
  - If it does not read zero, press the SCALE button on the MAIN tab to select a waveform range of -10 to 20 mmHg. Use the zero adjustment tool from the catheter kit to turn the screw on the bottom side of the transducer connector (Figure 1) until the monitor display reads zero by aligning the waveform line to the zero mark on the graph.
6. Prior to implanting the catheter into the patient, disconnect the preamp connector at the end of the CAMCABL from the black transducer connector at the end of the catheter
  - Ensure the black transducer connector does not breach sterility



Camino monitor



ICP & ICT ports



CAMCABL



1104G catheter and label

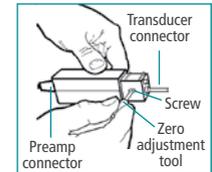
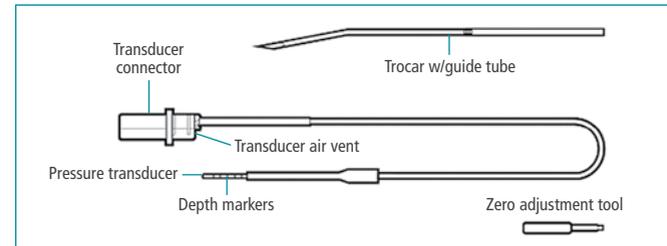


Figure 1



1104G catheter kit

## Catheter placement

1. At the corner of the chosen burrhole, create a notch (a)

Size of notch must be large enough with correct angle so the catheter can lay properly without breaking.

2. Position the tip of the catheter within the trocar's guide tube
3. At the trocar insertion site (b), use the trocar to tunnel the catheter under the scalp toward the craniotomy site

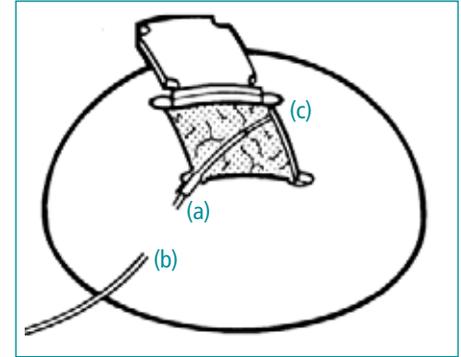
Ensure that there is enough length between the trocar insertion site and craniotomy site.

4. Remove the trocar and sheath
5. Place the tip of the catheter on the brain tissue, under the dura, opposite the notched burrhole

6. Position the tip of the catheter under the intact skull (c)

Isolate the catheter from local pressures that may be caused by movement of the bone flap.

7. Close and suture the dura using standard neurosurgical procedures
8. Replace the bone flap if required
9. Secure the catheter to the scalp at the trocar insertion site (suture around, not through the catheter)
10. After the site has been dressed, secure the preamp connector at the end of the CAMCABL to the patient to protect the fiber optic catheter
11. Once the catheter has been secured, connect black transducer connector to CAMCABL and verify pressure reading



It is recommended that the catheter be disconnected from the CAMCABL when the patient is moved. This will not affect calibration.

*The Camino ICP monitor is indicated for use by qualified neurosurgeons or neurointensivists for measurement of intracranial pressure and temperature. The use of the post craniotomy subdural pressure monitoring catheter by a qualified neurosurgeon is indicated when direct pressure measurement in the subdural space, post craniotomy, is clinically important.*

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