Objective/Requirement

Transcutaneous blood gas monitoring device for testing in elevated CO2 environment. This includes supporting equipment for the transcutaneous blood gas monitoring device:

- Monitor
- Power supply
- Country specific power supply,
- Sensor Adapter Cable
- Cable Hook
- 2x Tilting feet
- Manual

Characteristics, Scope, and Spec

Ingress Protection: IPx2 (protection against dripping water when tilted at 15°)

Carrying: Foldable handle to carry the monitor Mounting: Mountable on 75x75 VESA compatible roll/infusion stands, wall mounts/railings, transport incubators, etc.

Tilting: Optional feet to add on the VESA mounting points to adjust angle for improved table-top viewing (screen perpendicular to the standing surface)

Cable storage: Optional cable holder can be attached on the right or left rear side of the monitor to stow cable during transport or storage. Electrical Monitor: 12 VDC Power, max. 3 A, by external power supply Power supply for hospital use: Class II FE (with functional earth), Electrical Safety (IEC 60601-1)

Power supply for home use: Class II (without functional earth), Electrical Safety (IEC 60601-1) Type BF, Applied Part, Defibrillation Proof. Internal battery type: rechargeable, sealed Li Ion Battery / Capacity (new fully charged battery): up to 4 hours (if Sleep Mode=OFF) Charging Time: approx. 4 hours Environmental Transport/ storage temperature: 0 to +50 °C (32 to 122 °F) Transport/ storage humidity: 10 to 90% non-condensing Operating temperature: +5 to +40 °C (41 to 104 °F)

| Milestone 1: | |
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| Summary report with a description of how the prototype images will be synced with OCT2 Spectralis images and enable follow-up analysis. Envelope pictorial (high-level drawing of how prototype will fit in drawer) External interfaces list (e.g., power interface) | |
| Milestone 2: | |
| Prototype of Macula OCT device including delivery to JSC Conduct Training to JSC Cardiovascular Lab (CVL) personnel Software needed to obtain and view images Simple user manual (e.g., voltages, use of device), electrical safety- and laser safety assessment Note: the device will have no FDA clearance | |
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| Period of Performance: 3/20/23 – 9/2 | 2/23 |
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