

# MarkVCID Cerebrovascular Reactivity (CVR) Equipment & Consumables

v2.25.25

**MarkVCID Consortium sites are responsible for ordering the disposable CVR consumables listed below.** Please contact Hanzhang Lu ([hlu3@jhmi.edu](mailto:hlu3@jhmi.edu)) and Cuimei Xu ([cxu31@jhmi.edu](mailto:cxu31@jhmi.edu)) if there are any questions or issues obtaining the below supplies.

## Disposable CVR supplies:

Equipment Name	Manufacturer & Catalog Number	Product Link /Notes
Gas tank of 5% CO <sub>2</sub> , 21% O <sub>2</sub> and balanced N <sub>2</sub> gas mixture at USP Medical Grade with compatible regulator	Airgas gas tank Z03NI7412003053; Regulator of CGA 280.	Airgas is the recommended manufacturer.  If your institution has an existing policy that requires the use of other local gas companies, please first send the quote to Cuimei Xu ( <a href="mailto:cxu31@jhmi.edu">cxu31@jhmi.edu</a> ) for review.
Nose clip	Hans Rudolph, 201403	<a href="https://www.rudolphkc.com/product-page/noseclips-disposable-reusable">https://www.rudolphkc.com/product-page/noseclips-disposable-reusable</a>
Mouthpiece	Hans Rudolph, 602076	<a href="https://www.rudolphkc.com/product-page/mouthpieces-standard-saliva-collector-type">https://www.rudolphkc.com/product-page/mouthpieces-standard-saliva-collector-type</a>
Detergent for cleaning reusable components	Suggested options: BenzaRid; Clorox Germicidal Bleach	Please follow your Institution's policies for ordering this product.
<b><i>If using the Medtronic CO<sub>2</sub> monitor:</i></b>		
Microstream™ Advance filter	MVXL	<a href="#">MVXL   Medtronic</a>

## The CVR kit lead (Hanzhang Lu) is responsible for providing MarkVCID Consortium sites with CO<sub>2</sub> monitors and the non-disposable CVR consumables listed below.

Contact Hanzhang Lu ([hlu3@jhmi.edu](mailto:hlu3@jhmi.edu)) and Cuimei Xu ([cxu31@jhmi.edu](mailto:cxu31@jhmi.edu)) to replenish the following supplies as needed. Allow for at least 4-6 weeks lead time to process any supply requests.

General Supplies
Two-way non-rebreathing valve
Gas delivery tube
Douglas bag
Gooseneck stand
Mouthpiece-valve connecting tube
Gas filling tube and other components
Recording USB drive

CO <sub>2</sub> Monitor	Supplies
Medtronic CO <sub>2</sub> monitor	
<b><i>or</i></b>	
Philips NM3 monitor	CO <sub>2</sub> sampling line extension