

# HAYEK BCV



AVOID A  
TRACHEOSTOMY



AVOID  
INTUBATION



AVOID  
FACEMASKS

**Biphasic Cuirass Ventilation (BCV)** controls both phases of the respiratory cycle. During the inspiratory phase, BCV uses the power of negative pressure to inflate the lungs through a cuirass shell. During the expiratory phase, positive pressure is applied via the cuirass shell, which causes the diaphragm to move back up, facilitating a breath out. BCV is proven to be more physiological than alternative forms of ventilation and is a real alternative for those with failing physiology. BCV ventilates in sympathy with our natural breathing cycle, which lends itself to the natural benefits of spontaneous breathing on heart and lung function eliminating adverse side effects of positive pressure ventilation. BCV offers comfortable, mask-free, non-invasive respiratory support for adults, children, and neonates.

Coupled with its High Frequency Chest Wall Oscillation (HFCWO) and cough options to deliver multifunction respiratory support, BCV is the only non-invasive ventilation tool to support the work of breathing in a physiological way.

▲ BCV delivers Negative Pressure Ventilation (NPV), Control / Synchronized Ventilation, HFCWO and Cough options, ALL-IN-ONE.

▲ BCV delivers all functions without changing the patient interface, a cuirass shell.

▲ BCV can be used in place of NIPPV in many cases, eliminating mask compliance problems.

▲ BCV can be used in place of invasive PPV in many cases, avoiding intubation or a tracheostomy.

▲ BCV can be used as a weaning tool from PPV.

▲ BCV increases cardiac output, especially in those with failing physiology.

▲ BCV increases pulmonary blood flow.

▲ BCV offers cardiopulmonary support in a truly physiological way.

▲ BCV provides an active expiratory phase.

▲ BCV facilitates secretion clearance using true HFCWO, and cough options replacing the need for both vest and cough assist devices.



## BCV IS AVAILABLE IN BOTH THE HOSPITAL AND HOME

- Intolerance of or Failed Mask Ventilation
- Tracheostomy Avoidance
- Problems from Weaning from PPV
- Acute and Chronic Respiratory Failure
- Chronic Obstructive Pulmonary Disease (COPD)
- Neuromuscular (SMA, ALS, etc.)
- Cystic Fibrosis (CF)
- Head and Spinal Injuries
- Ventilation Post Operation
- Post Fontan and Fallot Repair
- Low Cardiac Output
- Failing Physiology
- Bridge to Transplant
- Persistent Air Leaks ...And many more

Medical Disclaimer: The content provided in Hayek Medical's educational materials are for informative purposes only and are not intended to serve as a substitute for the consultation, diagnosis, and/or medical treatment of a qualified physician or healthcare provider.

**CONTACT US TODAY  
FOR MORE INFORMATION**

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