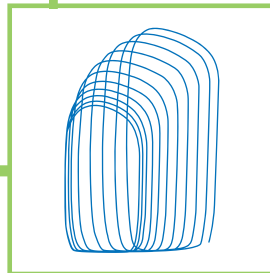
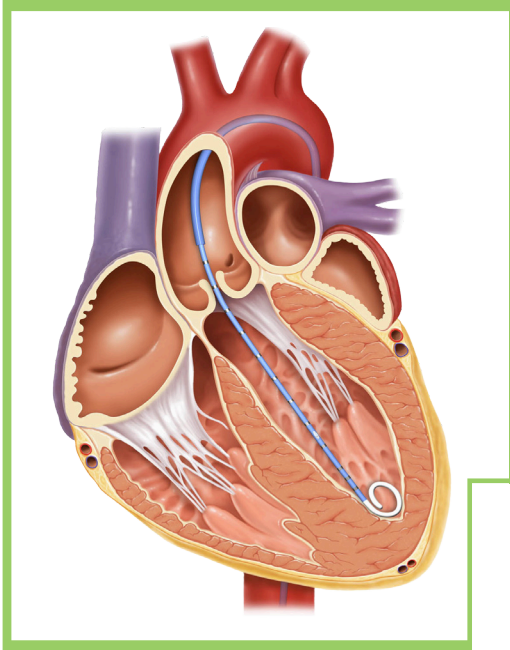


Ventri-Cath™ Pressure-Volume Catheter



The Ventri-Cath catheter is the newest addition to Millar's line of multi-segment pressure-volume (PV) catheters for complete cardiac function assessment in large animal models. The Ventri-Cath provides real-time pressure, volume and internal ECG signals for monitoring and analysis of ventricular function.

Millar has streamlined the manufacturing process to provide the same proven performance as previous Millar PV catheters at a more affordable price point, increasing the research community's access to Millar gold standard pressure-volume technology.

Ventri-Cath Benefits

- 5 F to provide most minimally invasive pressure-volume measurement
- 12 electrodes for up to 7 segments of volume, reducing segment size to increase accuracy
- Improved pigtail design to optimize catheter placement

Pressure-Volume Loop Parameters

- Contractility Index (ESPVR)
- Elastance (EDPVR)
- Cardiac Output
- Stroke Volume
- Max and Min Ventricular dP/dt
- Pre-load Recrutable Stroke Work (PRSW)
- Ejection Fraction
- Tau
- Time-Varying Maximum Elastance $E(t)$
- End-Systolic Elastance (E_{es})
- Max and Min dV/dt
- Arterial Elastance (E_a)

Pressure-Volume Applications

- Baseline PV loop analysis
- Occlusion PV loop analysis
- LVAD evaluation
- Cardiac hypertrophy
- Cardiac failure
- Cardiovascular remodeling
- Toxicology
- Pharmacology (rapid drug screening)
- Cardiac resynchronization therapy
- Surgical interventions
- Ischemia/reperfusion studies
- Vascular occlusions

Ventri-Cath™ Models

Model Number	Tip French	Electrode Spacing	No. of Electrodes	No. of Sensors	Sensor Location	Length	Pigtail
Ventri-Cath 507	5 F	7 mm	12	1	Between E4 & E5	120 cm	Pigtail
Ventri-Cath 507S	5 F	7 mm	12	1	Between E4 & E5	120 cm	No Pigtail
Ventri-Cath 510	5 F	10 mm	12	1	Between E4 & E5	120 cm	Pigtail
Ventri-Cath 510S	5 F	10 mm	12	1	Between E4 & E5	120 cm	No Pigtail
Ventri-Cath 512	5 F	12 mm	12	1	Between E4 & E5	120 cm	Pigtail
Ventri-Cath 512S	5 F	12 mm	12	1	Between E4 & E5	120 cm	No Pigtail
Ventri-Cath 515	5 F	15 mm	12	1	Between E4 & E5	120 cm	Pigtail
Ventri-Cath 515S	5 F	15 mm	12	1	Between E4 & E5	120 cm	No Pigtail

The Ventri-Cath requires the CEC-10PV cable (sold separately) to connect to the MPVS Ultra.

Related Equipment

MPVS Ultra®

The MPVS *Ultra* systems provide proven flexible calibration options for both small and large animal PV studies. Both systems can be combined with commonly available technologies to provide a real-time, absolute volume output, while also maintaining the integrity of the original conductance data.

ADInstruments PowerLab 16/35

The combination of the ADInstruments PowerLab 16/35 16-channel data acquisition system, ADInstruments LabChart Pro software, MPVS *Ultra* and Millar's high quality pressure-volume catheters, provides the ideal solution for complete cardiac function assessment in a wide range of animal models.

If you are interested in purchasing the Millar Ventri-Cath pressure-volume catheter or a complete MPVS *Ultra* pressure-volume system, contact us at one of the following locations.

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