

HeartAssist5® vs Other LVADs

HeartAssist5 Feature Comparison Chart

LVAD FEATURES

COMPANY	Thoratec		HeartWare	ReliantHeart	
PRODUCT	HeartMate II	HeartMate III	HVAD	aVAD	HeartAssist5
WEIGHT (Grams)	292	220	145	84	92
PLACEMENT	Below Diaphragm	Pericardial Space	Pericardial Space	Pericardial Space	Pericardial Space
TYPE	Axial Flow	Centrifugal	Centrifugal	Axial Flow	Axial Flow
MEASURABLE PULSATILITY	Minimal ⁽²⁾	Not Evaluated	Not Evaluated	Yes ⁽²⁾	Yes ⁽²⁾
PATTERNS OF PUMP CREATED THROMBUS	Reported(1) Stroke > 12% ⁽⁴⁾	stroke rate of 12% 6 months of data	stroke >28% ⁽⁴⁾	Thrombus patterns Absent ⁽¹⁾	Thrombus patterns Absent ⁽¹⁾ Stroke 0% ⁽⁵⁾
TRUE FLOW MEASUREMENT				✓	✓
REMOTE MONITORING				✓	✓
PATIENT DIARY - INR TRACKER				✓	✓
Pump in or out of the Ventricle	OUT	OUT	OUT	IN intraventricular	OUT
TET READY HA5 - Forward Compatibility to <i>Liberty</i>				2017 ⁽³⁾	2017 ⁽³⁾
CE APPROVAL (Europe)	✓	In Trial	✓	✓	✓
FDA TRANSPLANT ELIGIBLE (short)	✓	In Trial	✓	Trial early 2017	In Trial for Bridge to Transplant
FDA DESTINATION (long)	✓	In Trial	In Trial	Trial early 2017	

(1) Stony Brook Study, New York, December 1, 2013

(2) THI 2009 Report Frazier et, al.

(3) Forward compatibility - a design that gracefully accepts input designed for later versions of itself

(4) HeartWare Endurance 1 trial

(5) HeartAssist5 (rev6) EU commercial experience - no device related stroke

(6) Thoratec HeartMateIII, European Data on 50 patient study (doi:10.1016/j.jacc.2015.09.083)...published December 15, 2015