2022 Annual ACT-VAD Report

ACTION Learning Network



APRIL 2018 - DECEMBER 2022

Key Findings

Over 1000 devices with over 200,000 device days in the database Continued shift of patient diagnosis with now 37% of patients with congenital heart disease Stroke incidence of 12% shows sustained improvement compared to historical reports

1

Patient Population

Number of patients in the ACT-VAD registry (Since April 2018)

1,002

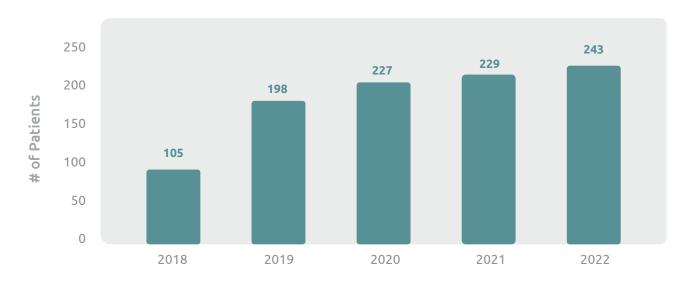
Devices Implanted

Number of Devices Implanted Since April 2018

1,284

Patient Population by Year

Number of new patients in the ACT-VAD registry per year since April 2018

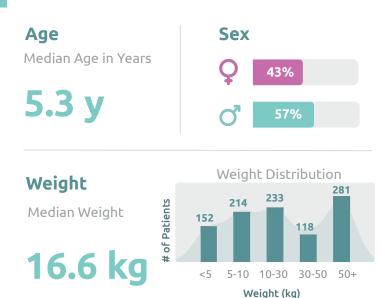


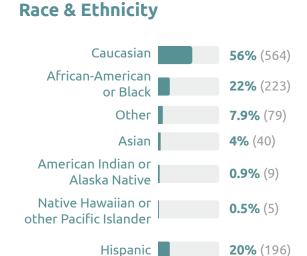
ACT-VAD Patient Characteristics



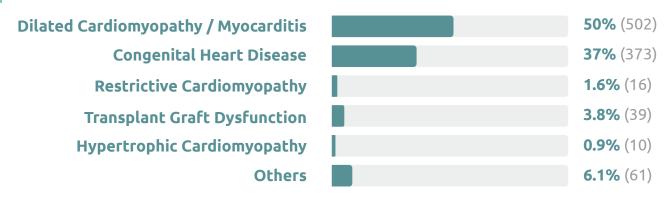
2

Demographics

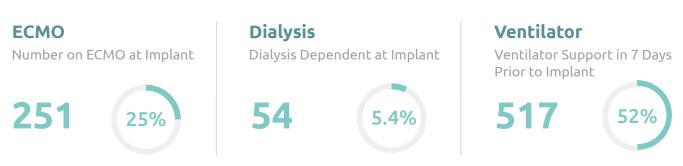




Diagnosis



Patient Characteristics at Implant

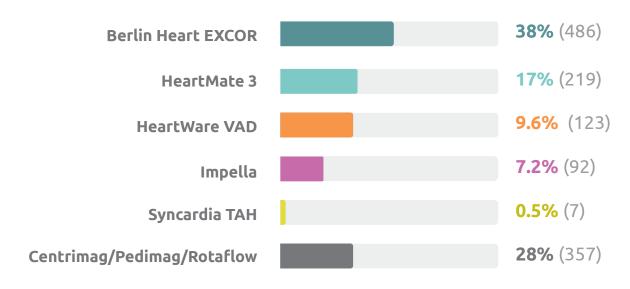


ACT-VAD Devices



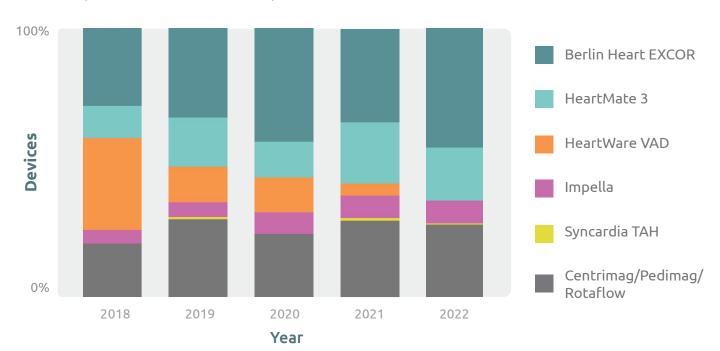
Types of Devices Implanted

Devices Implanted Between April 2018 and December 2022 (N=1284)



Types of Devices Implanted by Year

Devices Implanted Each Year Between April 2018 and December 2022



actionlearningnetwork.org | myactioneducation.org | 3

ACT-VAD Clinical Outcomes



Postoperative Course

Device Days

Hospital Days

Total Number of Hospital Days After Initial Implant

(Does Not Include Readmission)

Total Number of Device Davs

226,085 Days

Post-Implant ICU Days

Median Days for First Post-Implant ICU Stay

24 Days

Cumulative

89,312

40

Median

Distribution



Median

Distribution

ICU Days

Post-Implant ICU Days

31,117

Cumulative

24



Clinical Outcomes

Clinical Outcomes for Patients Receiving Implants Between April 2018 and December 2022

Transplanted, alive	622 (62%)
Alive on device	143 (14%)
Ventricular recovery, wean	85 (8.5%)
Transferred	14 (1.4%)
Deceased on device	138 (14%)

Patients Discharged

Percent of Patients with a HM3 or HVAD discharged before Transplant



Number of patients with a HM3 or HVAD discharged before Transplant

145

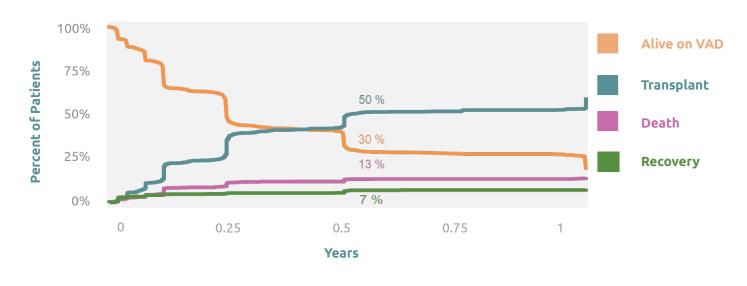
ACT-VAD Clinical Outcomes



Competing Outcomes

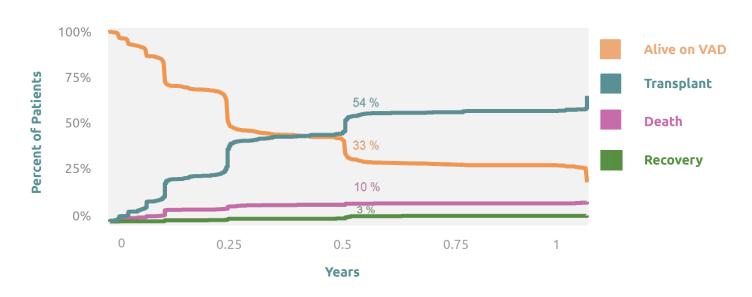
All ACTION Patients

Competing Risk Curves Depicting Alive on VAD, Death, Recovery, and Transplant for 1,002 ACTION Patients Receiving Implants between April 2018 and December 2022.



Patients with Durable Devices

Competing Risk Curves Depicting Alive on VAD, Death, Recovery, and Transplant for ACTION Patients Receiving Berlin Heart, HVAD, HM3, or Syncardia Implants between April 2018 and December 2022.



actionlearningnetwork.org | myactioneducation.org 5

ACT-VAD Clinical Outcomes

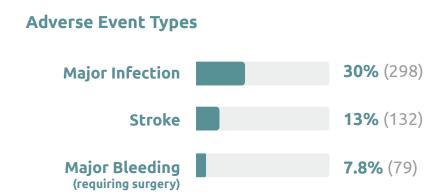


Adverse Events

Patients Without Major Adverse Events

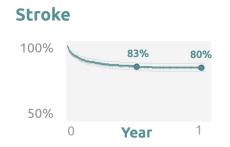
Percent of Patients That Have Not Had Major Infection, Stroke, or Major Bleeding (Clots)

53%



Freedom from Adverse Events at One Year

Percent of Patients Free from Stroke, Bleeding, and Infection







Survival at One Year

Survival Rate of 1,002 ACTION patients receiving implants between April 2018 and December 2022

