Georgina Waldman, PharmD MASSACHUSETTS GENERAL HOSPITAL, Boston, MA, USA

TON VAN-KHUE, M.D. Ph.D.
EDITOR
ISHLT.ORG

Asleh R et al. Intravenous Bevacizumab as a Novel Treatment for Refractory Left Ventricular Assist Device-Related

Gastrointestinal Bleeding. J Heart Lung Transplant. 2020

STUDY HIGHLIGHTS

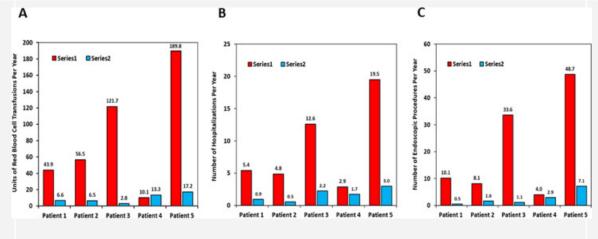
Hypothesis: Bevacizumab (monoclonal antibody against VEGF) effective and safe in refractory GI bleeding due to GI angiodysplasia in LVAD patients

Design: Single center retrospective pilot study for off label use of bevacizumab

Patients: 5 male patients with HMII as DT

Results: Significant ↓ ↓ in blood transfusions, hospitalizations and endoscopies, improvement in iron deficiency!

CENTRAL FIGURE



Changes pre (red) and post (blue) bevacizumab

- A: Blood transfusion requirements (RBC/year)
- B: Hospitalizations per year
- C: Number of endoscopies per year

Safety: In two patients with epistaxis pre infusion, had additional epistaxis post infusion requiring blood and cauterization

REVIEWER'S COMMENTS

- Impressive results in a difficult to manage population
- Limited safety outcome reporting due to small patient size
- Provocative question:
 Will this be covered by insurances moving forward?

Limitations:

- Very small pilot study
- HM2 patients only, none with newer devices
- Several infusions required, no guidance on when to repeat dosing

Kwadwo Amankwa Pharm.D. BCPS JEWISH HOSPITAL - UOFLHEALTH, LOUISVILLE, KY, USA

TON VAN-KHUE, M.D. Ph.D.
EDITOR
ISHLT.ORG

Caraballo et al: Clinical Outcomes After Left Ventricular Assist Device Implantation in Older Adults - An INTERMACS Analysis

J Am Coll Cardiol HF. 2019 Dec, 7 (12) 1069-1078.

STUDY HIGHLIGHTS

Hypothesis: There is paucity of data regarding outcomes following LVAD implantation in older adults (≥75years)

Design: Retrospective review of

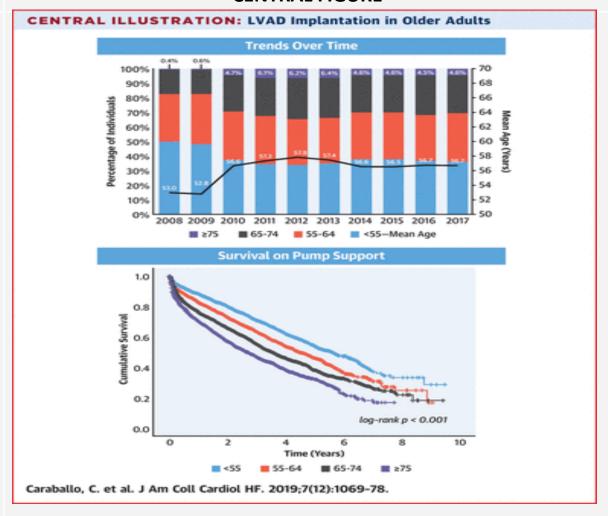
INTERMACS database

Inclusion:

Adult patients in INTERMACS database who received durable continuous-flow MCS - 2008 through 2017.

Patients stratified by 4 age groups: <55 years of age, 55 to 64 years of age, and >75 years of age.





REVIEWER'S COMMENTS

- -4.9% of LVAD patients were75yrs or older
- -Older adults had significantly worse survival
- -Older adults had significantly higher hazards of GI bleeding
- -Device thrombosis hazards were **lower** in the older adults
- Study provides useful information on the clinical characteristics and outcomes of older adult LVAD patients **Limitations:**
- -Retrospective design
- Authors did not report on outcomes such as stroke, infections, arrhythmia etc.