

There are approximately 6.2 million patients with Heart Failure (HF) living in the United States, and thus it will be increasingly important to provide high-value, patientcentered care. Left ventricular assist devices (LVADs) are mechanical pumps commonly utilized as life-saving therapy among patients with end-stage HF (**Figure 1**).

While LVADs have the capacity to prolong survival and improve clinical HF symptoms, patients sometimes regret their decision to receive an LVAD due to the transformative impact this intervention has on one's physical function, social role, and emotional state. There are limited studies assessing patient satisfaction, and quality of life (QOL) postimplant^{1,2}.

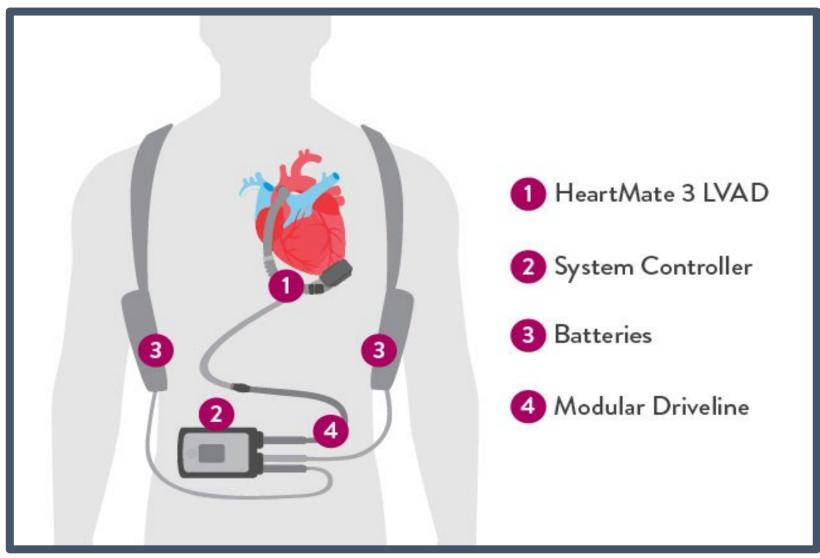


Figure 1. Graphic Depiction of HeartMate3[™] LVAD developed by Abbott³.

Objectives

This study aims to measure decision regret and explore QOL outcomes among recent LVAD patients at the University of Rochester. Our hope is to develop improved anticipatory guidance and provide further behavioral psychotherapy support to vulnerable LVAD candidates moving forward.

Methods

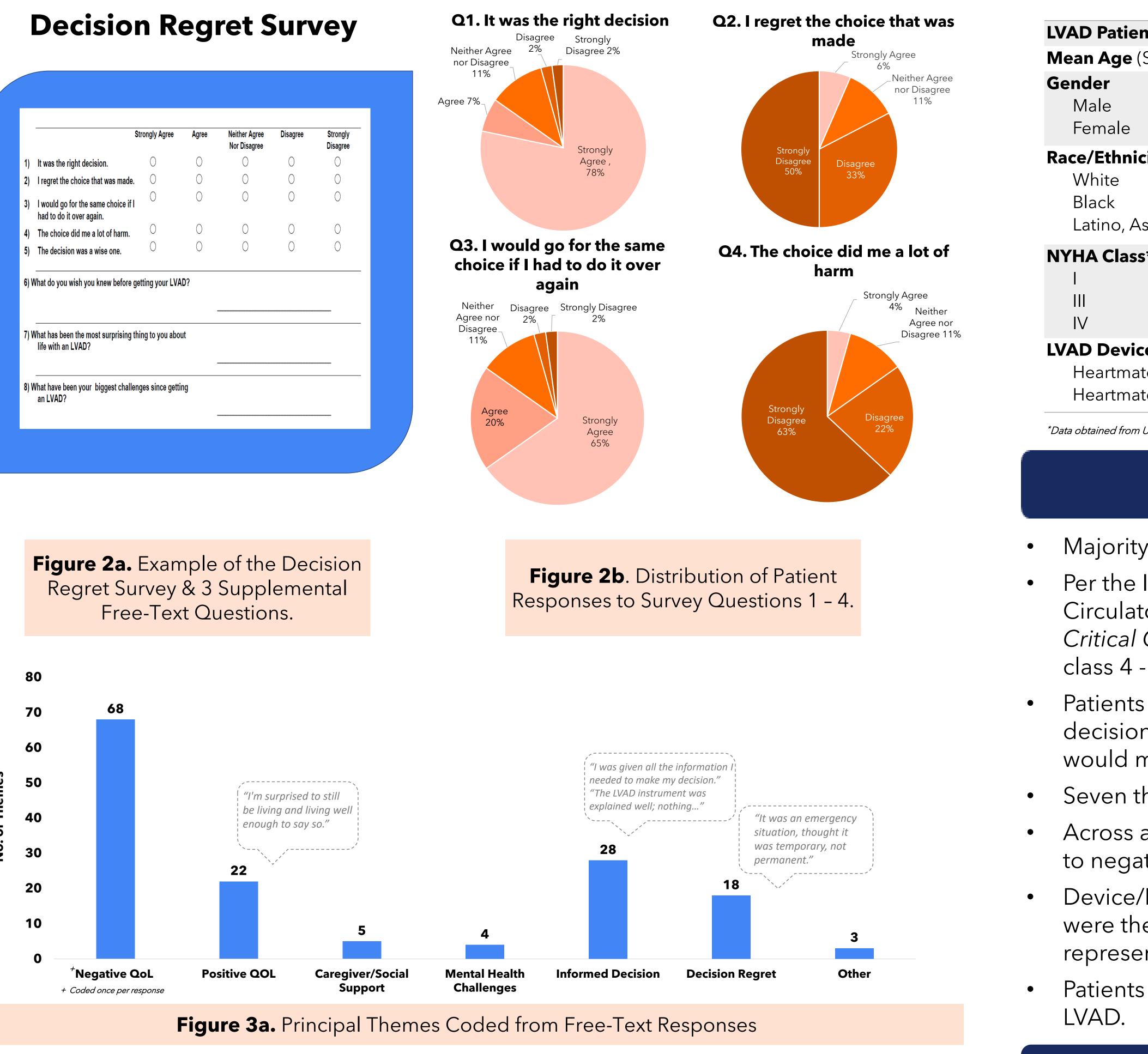
- 1. To objectively measure QOL and patient satisfaction, we utilized a **Decision Regret Survey**⁴ with three supplementary open-ended questions (**Figure 2**).
- 2. From January 2021 to August 2022, LVAD patients were recruited and consented in the URMC Cardiology Advanced Heart Failure Clinic.
- 3. Surveys were completed once during in-person follow up visits, then subsequently entered into REDCap.
- 4. These forms collectively created a centralized database in REDCap of all patient selfreported experiences living with an LVAD.
- 5. A thematic catalog was developed from the supplemental open-ended questions. The frequency of themes was coded and recorded by the study team utilizing grounded theory approach (**Figure 3**).

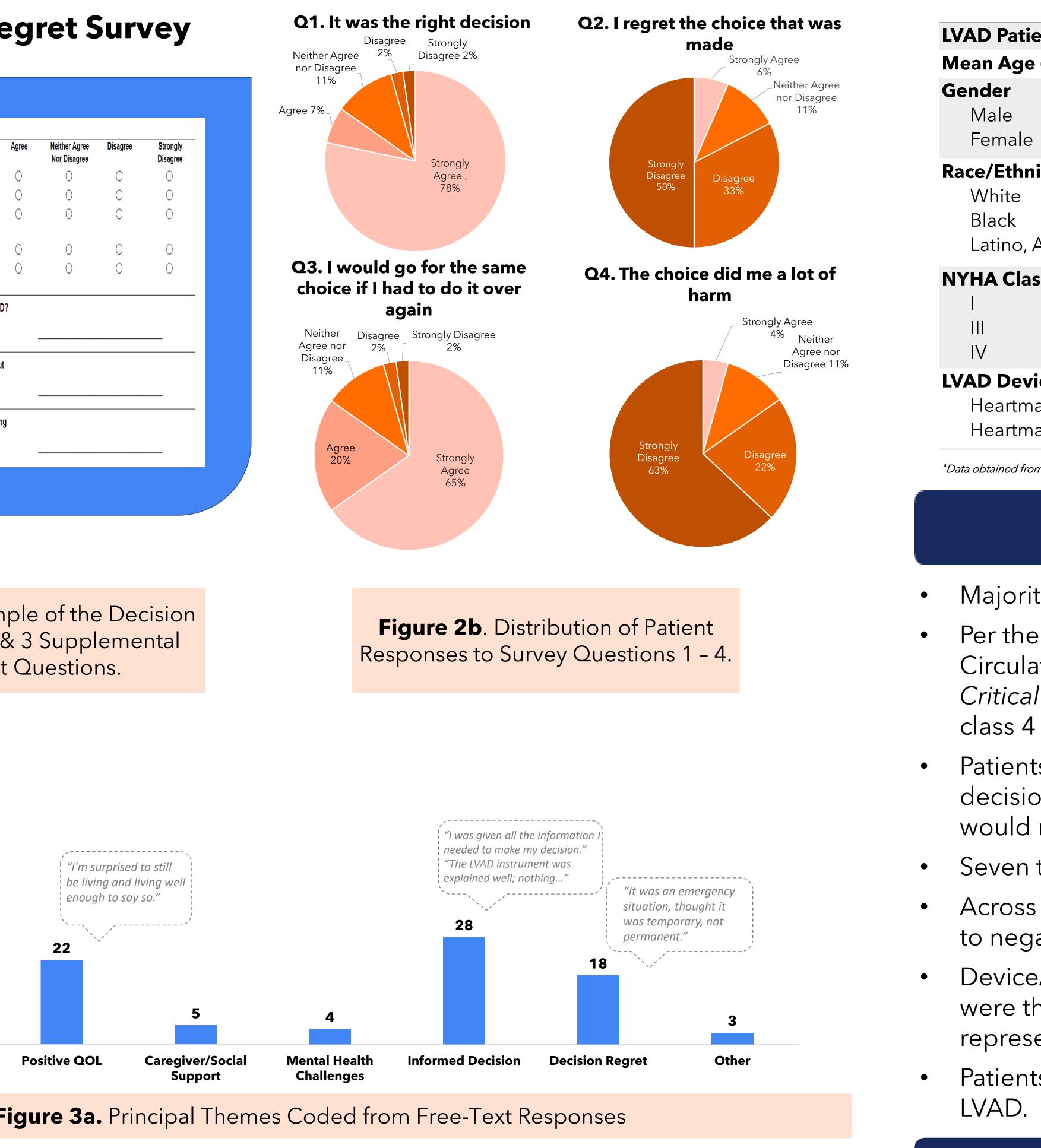
Better Decisions, Fewer Regrets: Assessing Patient Satisfaction After Left Ventricular Assist Device

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		Strongly Agree	Agree	Neither Agree Nor Disagree	Disagree	Strongly Disagree
	It was the right decision.	0	0	0	0	0
	I regret the choice that was made	. 0	0	0	0	0
	I would go for the same choice if had to do it over again.	0	0	\bigcirc	0	0
	The choice did me a lot of harm.	\bigcirc	0	0	0	0
	The decision was a wise one.	0	0	0	0	0
) V	Vhat has been the most surprising	thing to you abou	ıt			
	life with an LVAD?					
	Vhat have been your biggest challe	enges since getti	ng			
V	an LVAD?					

Regret Survey & 3 Supplemental Free-Text Questions.





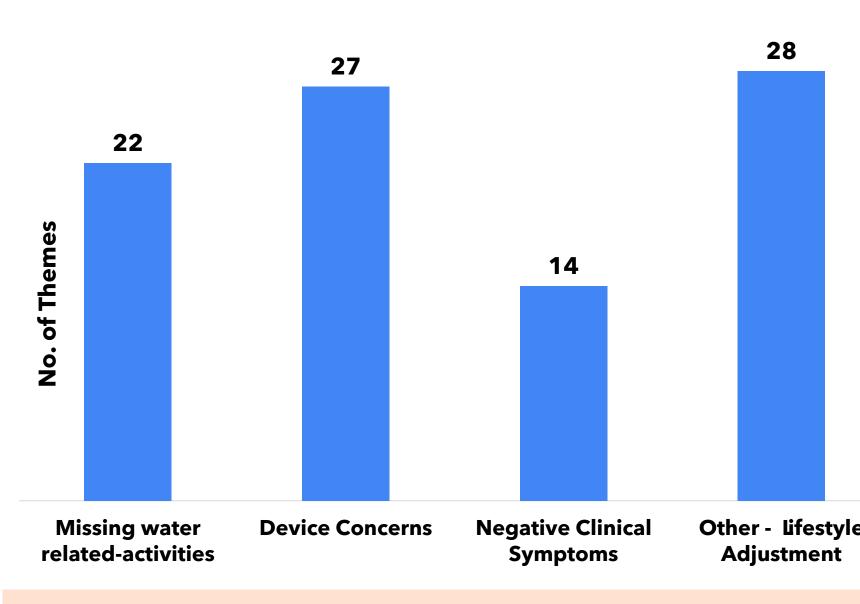
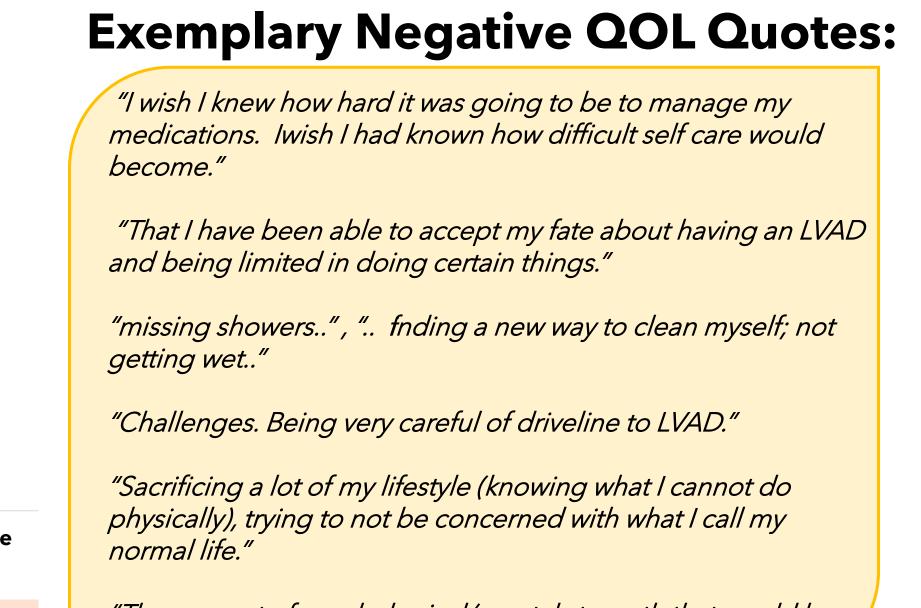


Figure 3b. Negative QOL Themes⁺⁺

++Unique themes coded multiple times per response, n =91.

Results



"The amount of psychological/mental strength that would be required to thrive after the LVAD."

In conclusion, LVAD patients had low rates of decision regret, however, endorsed increased negative QOL experiences, especially related to lifestyle adjustment and device concerns. Further exploration of these at-risk patient subgroup profiles with high negative QOL themes and associated outcomes can be studied to better support our growing LVAD community.

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TABLE 1: Patient Demographics

	N (%)
ents	46
(SD)	53.9 (+/- 12.7)
	35 (76.1 %) 11 (23.9 %)
city*	32 (69.6 %) 11 (23.9 %)
Asian, American Indian, Other	3 (6.5 %)
ss* (Pre-VAD)	1 (2.2%) 8 (17.4 %) 37 (80.4 %)
ce ate II ate 3	12 (26.1 %) 34 (73.9 %)

*Data obtained from URMC electronic health record

Results

Majority of patients had a New York Heart Association (NYHA) Class IV.

• Per the INTERMACS (Interagency Registry for Mechanically Assisted Circulatory Support) Profiles⁵, 89.1 % were categorized as class 1-Critical Cardiogenic Shock, class 3 – Stable, but Inotrope Dependent, or class 4 - Resting Symptoms.

• Patients overwhelmingly agreed (85 %) that fan LVAD was the right decision, with 83% denying decision regret, and 85% reporting they would make the same choice again.

Seven thematic domains were identified.

Across all responses, 68 of 148 or 45.9% of coded themes were related to negative QOL.

Device/Equipment Concerns and Other-Lifestyle Adjustment Domains were the most frequently mentioned negative QOL themes representing 60.4 % of responses.

• Patients reported low rates (14/91) of negative clinical symptoms with

Conclusions

Tosto C, Adamo L, Craddock H, et al. Relationship between device acceptance and patient-reported outcomes in Left Ventricular Assist Device (LVAD) recipients Scientific Reports. 2019;9(1):10778. doi:10.1038/ Maclver J, Ross HJ. Quality of Life and Left Ventricular Assist Device Support. Circulation. 2012;126(7):866-874

Cardiovascular. Abbott. Published 2022.https://www.cardiovascular.abbott/content/dam/bss/divisionalsites/cv/hcp/products/heart-failure/lvad/heartmate-3/graphics/hf-4. O'Connor AM. User Manual - Decision Regret Scale. Ottawa: Ottawa Hospital Research Institute; 1996.

https://decisionaid.ohri.ca/docs/develop/User_manuals/UM_Regret_Scale.pdf 5. Intermacs Database | STS. www.sts.org. https://www.sts.org/regs41598-019-47324-zistries/sts-national-database/intermacs-database

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