Peripartum Cardiomyopathy: Echocardiographic Characteristics and Medication Use in Patients With Versus Without Recovery of Ventricular Function Rasmusson K, Alharethi R, Budge D, Brunisholz K, Horne B, Connolly J, Jensen K, Stehlik J, Kfoury A. Intermountain Medical Center, Salt Lake City, Utah

## PURPOSE

- Peripartum cardiomyopathy (PPCM) is a rare condition with unpredictable outcomes.
- Why only some patients recover ventricular function following diagnosis remains unclear.
- The purpose of this study was to identify if baseline echocardiographic characteristics or medication use predicted ventricular recovery in a large cohort of patients with PPCM.



## METHODS

- The Utah PPCM Registry was queried for eligible patients age  $\geq 18$  years with a confirmed diagnosis of PPCM:
  - new reduced left ventricular ejection fraction (LVEF) <45%
  - no known etiology
  - diagnosed in the last month of pregnancy up to the 5th postpartum month
- Patients were grouped according to recovery (LVEF >50%) (Rec) and no recovery (LVEF <50%) (NoRec).
- Echocardiographic measures of LVEF and left ventricular internal dimension at enddiastole (LVIDD) and medication use were tracked in both groups.

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- Average age 30 years
- function.
- The neurohormonal antagonists studied • Average time to recovery was 8.9 months here appear to have a meaningful impact • Echocardiographic measures and medication on clinical characteristics for patients with use (Table below). PPCM and should be used as tolerated.

## RESULTS

• n=58 patients with PPCM

• 36 patients (62%) had recovery of cardiac

## CONCLUSIONS

• Patients with PPCM who have recovery of ventricular function are more likely to have a higher baseline LVEF, smaller left ventricular dimensions, and have higher use of standard heart failure medications.

	Rec	NoR ec	
	(n=36)	(n=22)	p value
EF, %			
Initial	32	27	0.05
Best	59	33	< 0.05
LVIDD, cm			
Initial	5.4	6.1	< 0.05
Best	4.8	5.6	< 0.05
B-bloc ker use, %			
Baseline	67	73	0.63
6 months	83 (n=35)	65 (n=20)	0.14
1 year	79 (n=34)	61 (n=18)	0.16
ACE I use, %			
Baseline	83	82	0.88
6 months	77(n=35)	50 (n=20)	0.04
1 year	59 (n=34)	50 (n=18)	0.55