Practice | Five things to know about ...

Peripartum cardiomyopathy

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- Peripartum cardiomyopathy (PPCM) presents with symptoms of heart failure, including dyspnea, orthopnea and pedal edema Peripartum cardiomyopathy is defined as heart failure with a left ventricular ejection fraction (LVEF) below 45%, in which symptoms begin in the last month of pregnancy and up to 5 months postpartum in an individual without pre-existing heart disease. ^{1,2} Patients with progressive or severe heart failure, angina or arrhythmia (seen in about 20% of patients) require urgent investigation and referral to a cardiologist. ^{1,3}
- 2 Echocardiography is critical for the diagnosis of PPCM and to exclude alternate causes of cardiac dysfunction

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Echocardiography is the gold standard for quantification of LVEF, and may show left ventricular thrombus, which is caused by pregnancy-related hypercoagulability and left ventricular hypokinesis.³

Patients should be treated for heart failure with reduced LVEF, with important differences specific to pregnancy

Diuretics, β -blockers, hydralazine, nitrates and digoxin are safe in pregnancy and should be used in the treatment of PPCM.³ Angiotensin-converting enzyme inhibitors and angiotensin receptor blockers are teratogenic and are contraindicated in pregnancy.³ Given the high prevalence of left ventricular thrombus (10%–17%), low molecular weight heparin may be considered during late pregnancy and for up to 6–8 weeks postpartum when the LVEF is below 30%–35%.³

- 4 PPCM is associated with substantial morbidity and death
 Up to half of patients with PPCM will have residual left ventricular dysfunction. ^{2,3} If recovery occurs, the LVEF will normalize to greater than 50%, often within 3–6 months of diagnosis. ³ Estimates of long-term (> 5 yr) mortality rates range from 7% to 20% in the United States. ³
- Patients with a history of PPCM who become pregnant require urgent referral to an obstetrician and a cardiologist

 Future pregnancy is not recommended if the LVEF does not recover to

greater than 50%–55%, as there is a 25%–50% chance of maternal death.^{4,5} Even if complete recovery is achieved, a 20% risk of relapse exists with subsequent pregnancy, which should be considered high risk.⁴

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