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Continuing Education and the Cardiovascular
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Cardiology Rounds
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**Evaluation of Mitral Valve Regurgitation:
Implications for Percutaneous Mitral Valve Repair**

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Objectives:

Cardiologists frequently encounter patients with a variety of etiologies for mitral regurgitation (MR). Determining whether surgical intervention is needed and, when it is, its optimal timing, represents an ongoing challenge. This issue of *Cardiology Rounds* describes the etiologies of MR and current echocardiographic techniques to quantitate MR.

Questions: Only one response is correct.

1. Organic mitral regurgitation (MR) is a primary structural abnormality of the valve that prevents competent valve closure. All of the following are causes of organic MR except:
 - a. rheumatic valve disease
 - b. endocarditis
 - c. systemic lupus
 - d. dilated cardiomyopathy
 - e. degenerative disease

2. On a global basis, the most common cause of MR is:
 - a. ischemic heart disease
 - b. endocarditis
 - c. degenerative mitral valve disease
 - d. rheumatic or post-inflammatory mitral valve disease
 - e. inferior posterior myocardial infarction

3. Severe MR is a progressive process, which may be associated with:
 - a. heart failure
 - b. atrial fibrillation
 - c. left ventricular dilatation
 - d. increased risk of sudden death
 - e. All of the above

4. All of the following therapies have been shown to improve functional MR except:
 - a. cardiac resynchronization therapy
 - b. chronic afterload reduction
 - c. oral positive inotropic agent
 - d. beta-blockers

5. Mitral valve repair is generally associated with all the following except:
 - a. lower risk of endocarditis
 - b. less need for anticoagulation
 - c. better outcomes with floppy etiologies than ischemic etiologies
 - d. freedom from risk of re-operation

6. Factors contributing to the rate of recurrent MR following valve repair include:
 - a. site of repair
 - b. use of annuloplasty ring
 - c. etiology of MR
 - d. all of the above

7. The following methods are complementary ways of echocardiographically quantitating the degree of MR, except:
 - a. color flow Doppler
 - b. pulmonary vein flow
 - c. effective regurgitant orifice area
 - d. regurgitant fraction
 - e. ejection fraction

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