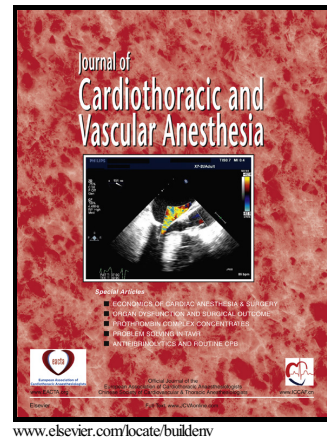


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# Three Dimensional Echocardiographic Assessment Of A Paravalvular Leak

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Running Title:  
3D imaging of a PVL

## INTRODUCTION

Paravalvular leak (PVL) after aortic or mitral valve replacement occurs in 2-16% of patients (1,2). Surgical repair or re-replacement is the definitive therapy and has near 100% immediate success rate and a low recurrence rate (<5% after 1 year) (1,3,4). However, the short (30 day) and long-term mortalities are reported up to 11% and 50% respectively (1,3,4). Percutaneous closure of a mitral PVL is a relatively recent advance that has a very low mortality with fair immediate success (< mild mitral regurgitation) ranging from 60% - 90%, but high re-intervention rate of 40% (5,6,7,8,9).

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