

## 승모판 대치술후에 발생한 좌심실유출로 폐색 1예

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장 병 철

= Abstract =

### A Case of Left Ventricular Outflow Obstruction Caused by Mitral Valve Replacement

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The pathophysiology, clinical presentation and prognosis of left ventricular obstruction present an important cardiological problem. Various anatomical and functional abnormality can cause this phenomenon. Rarely, left ventricular outflow obstruction can result after mitral valve surgery. We experienced a case of left ventricular outflow obstruction 13 years after mitral valve replacement. The diagnosis was made using two-dimensional Doppler echocardiography and confirmed by cardiac catheterization. The pressure gradient across the left ventricular outflow obstruction was 96mmHg. A second mitral valve replacement was performed. Because severe fibrosis, pannus around the prosthetic mitral valve and a subaortic web were detected during the operation, the subaortic web was removed.

**KEY WORDS :** Mitral valve replacement · Left ventricular outflow obstruction.

1-5),

서 론

6).

43

13

1

KIO 레  
 : , 43  
 : 가  
 : 1980 1984  
 St. Jude 29mm  
 coumadin  
 1996 8 3  
 가  
 : 가 1980 3  
 1981 1983  
 . 1984  
 1991 partial seizure disorder  
 Tegretol  
 : 110/70mmHg,  
 79/min,  
 G /G  
 : 12.4g/dl,  
 35.1%, 202,000/mm<sup>3</sup>,  
 5,000/mm<sup>3</sup>, 9mm/hr  
 2+,  
 3 5  
 X :  
 :  
 lead , , aVF ST  
 (Fig. 1).  
 : 1984  
 0.44cm<sup>2</sup>, 4.5cm  
 1987 64%  
 : 1997 1 2  
 (web)  
 : 1997 2  
 1995 9 G /G  
 71%,  
 가 ,  
 (pannus)

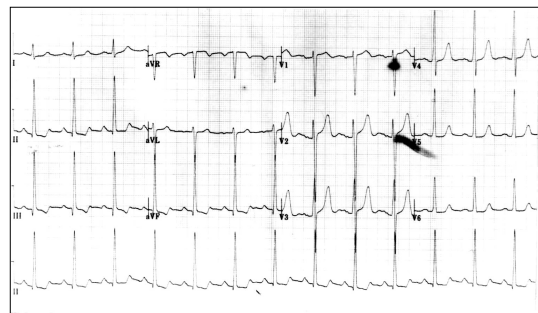


Fig. 1. Electrocardiogram showed normal sinus rhythm and nonspecific ST-T changes in lead I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, and V6.

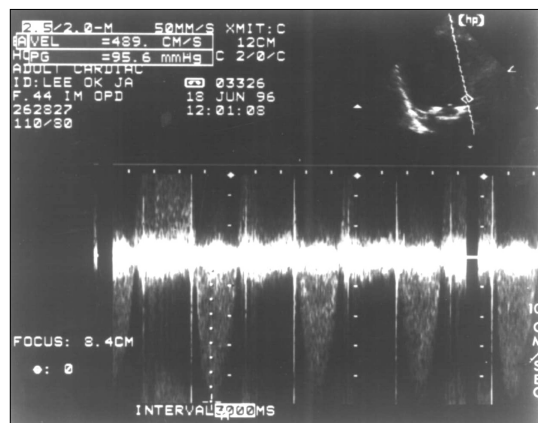


Fig. 2. Preoperative continuous wave Doppler recording across the left ventricular outflow tract shows peak velocity of 4.9m/sec corresponding to pressure gradient of 96mmHg.

Doppler  
 4.5m/sec,  
 41mmHg  
 1996 6  
 가 96mmHg (Fig. 2).  
 :  
 가 95mmHg  
 : 1997 1 2  
 (web)  
 : 1997 2  
 가 ,  
 (pannus)

10mm 2.39m/sec,  
가 23mmHg (Fig. 5)

St. Jude 29mm  
(Fig. 3, 4).

Inderal

: 2

. 1997 3

61%,

고 찰

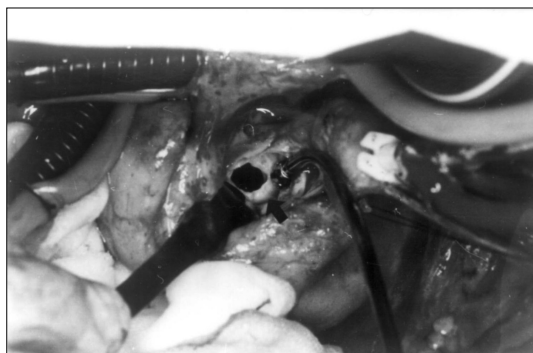


Fig. 3. Subaortic web with severe fibrosis was detected after incision of aorta at the operation field (arrow).

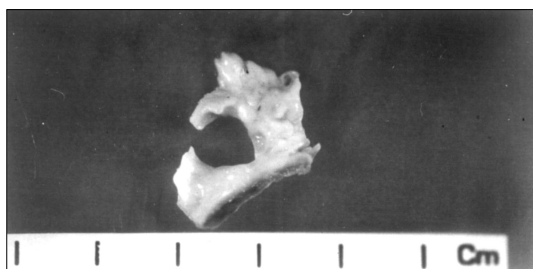


Fig. 4. Gross finding of removed subaortic web shows whitish and yellowish soft tissue fragment.

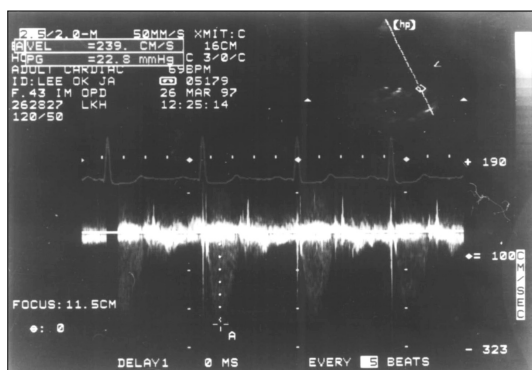


Fig. 5. Postoperative continuous wave Doppler recording after second mitral valve replacement shows marked decrease of pressure gradient across left ventricular outflow tract.

low  
7,8)

output syndrome

32 3 (9%)

#### 4). Carpentier ring

10% ,

2). Mihaileanu 9) 307

가 16%

(0%), (5%), (0%), (0%)

가

7,8)

가

Mihaileanu 9) 2,10)

가

가 .<sup>16)</sup>  
 syndrome , Barlow 가 가<sup>8,17)</sup>, Doppler, 2 - D

4)  
 Be -  
 rnoulli 가<sup>11)</sup> .

(  
 dP/dt)<sup>12)</sup> ,

<sup>13)</sup> .<sup>1)</sup> .

Starr - Edwards ball valve Doppler  
 가 가 가 , low profile 가 ,  
 valve St. Jude Medical hemidisc valve Bjork -  
 Shiley 60 - degree flat tilting - disc prosthesis  
 가<sup>14)</sup> pannus

가

20mm 가 (low profile pro-  
 sthesis)<sup>15)</sup> ,  
 요 약

,  
 가,

1

<sup>2)</sup> ,  
 가

가 ,

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