

# 동면심근의 Viability 평가에 Dobutamine Stress Echocardiography는 유용한가?

김 기 식

## The Usefulness of Dobutamine Stress Echocardiography for Evaluation of Viable Myocardium in Hibernating Myocardium

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- 1) (Hibernating myocardium) Diamond Thallium Technetium 가 가  
Positron Emission Tomogram(PET) Do -  
2) butamine stress echocardiography(DSE)가 가 가  
가 가 가 가  
3) (CABG) (PTCA) 115 46 31 , 69  
가 가 가  
4) Chung 23 dobutamine stress echocardiography biphasic  
12 70%, 79% 5-13) 가 74  
: , 700 - 310 194 92%, 60 92% Chung 4)  
: (053) 250 - 7379 : (053) 250 - 7434

**Table 1.** Utility of dobutamine stress echocardiography in predicting segmental improvement in left ventricular systolic function after revascularization in chronic coronary artery disease(hibernating myocardium)

Study	n	F/U	Sens(%)	Spec(%)	PPV(%)	NPV(%)	OPV(%)
Marzullo et al. <sup>5)</sup>	14	11wk	82	92			
Cigarro et al. <sup>6)</sup>	25	> 4wk	82	86	82	86	84
LaCanna et al. <sup>7)</sup>	33	3mo	92	75	83	87	84
Charney et al. <sup>8)</sup>	17	7days	78	86	78	86	83
Afridi et al. <sup>9)</sup>	20	6wk	74	73	59	86	75
Perrone-Filardi et al. <sup>10)</sup>	18	34days	88	87	91	82	87
Arnese et al. <sup>11)</sup>	38	3mo	74	95	85	93	91
Vanoverschelde et al. <sup>12)</sup>	40	5.3mo	84	76	76	84	80
Vanoverschelde et al. <sup>13)</sup>	73	5.5mo	88	77	84	82	84

(Table 1). 가 . Afridi <sup>9)</sup>

Dobutamine stress echocardiography reworsening 7.5 mcg/kg  
4가 . 5 20 mcg/kg  
10 mcg Chung  
20 mcg dobutamine  
(sustained improvem - dobutamine Sustained improvement  
ent) 가 subendocardial  
가 ‘ biphasic response ’ infarction  
, (wo - 가 dobutamine  
rsening), 가 (no inotropic action 가  
change) .  
가  
biphasic response <sup>14)</sup> 가 bi -  
가 가 . biphasic phasic response worsening  
response dobutamine  
contractile function .  
Dobutamine stress echocardiography  
가 가 DSE 가가  
가 . Afridi <sup>9)</sup>  
가  
biphasic response 72% predictive value가 Vanoverschelde <sup>12)</sup> Akinetic segment  
Worsening 35%, no change sust - 가 가 hypokinetic segment  
ained improvement 13%, 15% bi - DSE biphasic response  
phasic response가 가 worsening  
. Chung <sup>4)</sup> biphasic response 가 .  
17 15 dobutamine 가 가 dobuta -  
stained improvement 29 16 mine hy -  
가 Afridi <sup>9)</sup> 가 <sup>15)</sup> worsening 가

5)(11)(12) DSE Tha -  
specific -  
llium SPECT PET  
ity positive predictive value  
sensitivity  
가  
Bax 16) thallium reinjection  
DSE 76%  
93%, 85% 43%, 63%  
가  
1) ,  
6 12 가  
가 가  
4 6 가  
17)  
2) .  
18)  
3) PTCA  
가  
4) 가  
19)  
DSE  
가  
가  
가  
가

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