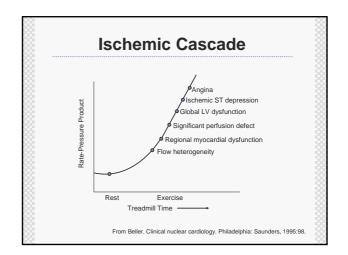
The $47^{\rm th}$ Scientific Annual Meeting of Kor Soc Circulation SCMR symposium 2006, Oct. $13^{\rm th}$, 2006

Radionuclide-based Insights into Perfusion and Viability : Beyond Diagnosis

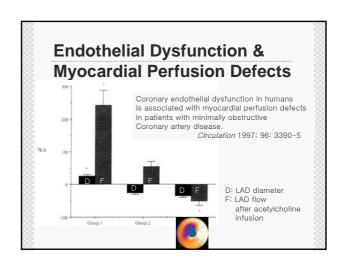
Hee-Seung Bom, MD, PhD Department of Nuclear Medicine Chonnam National University Medical School Gwangju, Korea hsbom@jnu.ac.kr



Apparently Normal Coronary Artery

Only 6.8% of normal reference segments were actually normal; the rest had diffuse atherosclerosis, with a mean corss-sectional narrowing of 51% in normal segments.

Atherosclerosis in Angiographically "Normal" Coronary Artery Reference Segments: IVUS Study with Clinical Correlations JACC 1995: 25: 1479-85



Chest pain & Normal MPI

n=3,594 (summed data by 1991) annual event rate=0.9%/yr

n=309 (Steinberg et al. Am J Cardiol 1993; 71:1270-3) 10-year-follow-up 0.1%/yr for cardiac death 0.6%/yr for nonfatal MI

n=292 (Chonnam Univ. Hosp. data) mean follow-up 25 months annual event rate=0.7%/yr

Strongly positive exercise ECG & Normal MPI

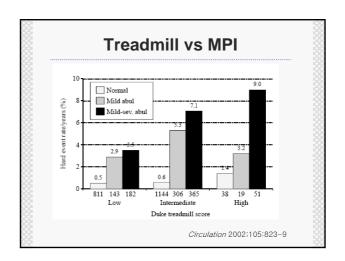
Fagan LF Jr, et al. Am J Cardiol 1992; 69:607-11 n=70, annual cardiac event = 0.7%/yr

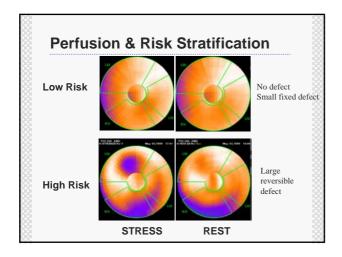
Schalet BD, et al. Am J Cardiol 1993; 72:1201-3 n=154, no death or MI during 34±17 months

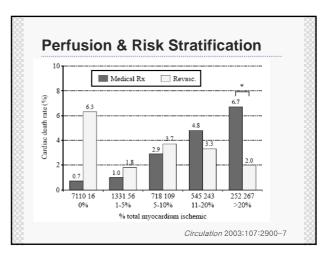
Krishnan R, et al. Am Heart J 1994; 127:804-16 n=32, no cardiac events during 38.3 (3-72) months

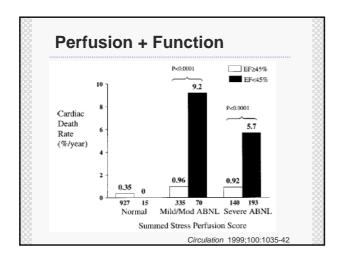
Chonnam Univ. Hosp. data n=44, no cardiac events during 25 (7-58) months

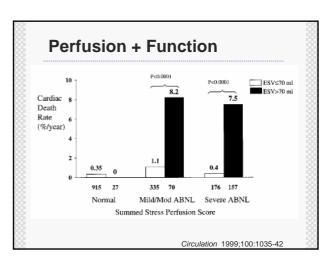
Angiographic CAD & Normal MPI			
	no.	no. of events	annual cardiac event rate (%/yr)
Brown & Rowen, 1993	75	1	0.75
Adbel-Fattah et al., 1994	97	3	1.1
Doat et al., 1994	52	2	0.7
Wahl et al., 1985	8	0	0
Pamelia et al., 1985	22	2	3.2
Younis et al., 1989	36	0	0
Sum	290	8	0.9

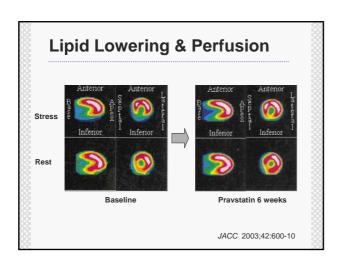


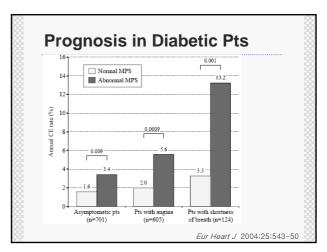












Screening CAD in Diabetics

Diabetics, especially women, have a much higher cardiac event rate than nondiabetics and have a high incidence of asymptomatic ischemia.

There is growing support for screening for asymptomatic ischemia with myocardial SPECT in diabetics.

