

표적장기보호를 위해서 특정한 약제의
선택이 필요한가?; 필요없다!!!

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약제의 선택

- ◆ 약제의 선택이 특별한 적응증이 없는 대상에서 표적장기손상의 차이를 야기하는가에 대한 논란은 끝났다
- ◆ 다만 이뇨제나 베타차단제가 가진 대사성 이상이 장기적으로 심혈관질환을 증가시킬 것인가에 대한 논란과 ACE억제제가 가진 대사이상 향상효과의 장기적인 효과는 향후 추시해야 한다
- ◆ 어떻게 하면 혈압을 목표치까지 강하할 것인가가 중요하다

Factors to be considered

- ◆ Subjects: High risk or low risk
- ◆ Which methodology:
individual vs meta-analysis

뇌졸중/관동맥질환과 혈압 치료

BP-Lowering Treatment Trialists

Comparisons of Different Active Treatments

BP Difference
(mm Hg)

Relative Risk

RR (95% CI)

Major CV events

ACEI vs D/BB	2/0		1.02 (0.98, 1.07)
CA vs D/BB	1/0		1.04 (0.99, 1.08)
ACEI vs CA	1/1		0.97 (0.92, 1.03)

CV mortality

ACEI vs D/BB	2/0		1.03 (0.95, 1.11)
CA vs D/BB	1/0		1.05 (0.97, 1.13)
ACEI vs CA	1/1		1.03 (0.94, 1.13)

Total mortality

ACEI vs D/BB	2/0		1.00 (0.95, 1.05)
CA vs D/BB	1/0		0.99 (0.95, 1.04)
ACEI vs CA	1/1		1.04 (0.98, 1.10)

0.5 1.0 2.0
Favors Favors
First Listed Second Listed

BP-Lowering Treatment Trialists

Comparisons of Different Active Treatments

BP Difference
(mm Hg)

Relative Risk

RR (95% CI)

Stroke

ACE Inhibitor vs D/BB	2/0		1.09 (1.00, 1.18)
CA vs D/BB	1/0		0.93 (0.86, 1.01)
ACE Inhibitor vs CA	1/1		1.12 (1.01, 1.25)

CHD

ACE Inhibitor vs D/BB	2/0		0.98 (0.91, 1.05)
CA vs D/BB	1/0		1.01 (0.94, 1.08)
ACE Inhibitor vs CA	1/1		0.96 (0.88, 1.05)

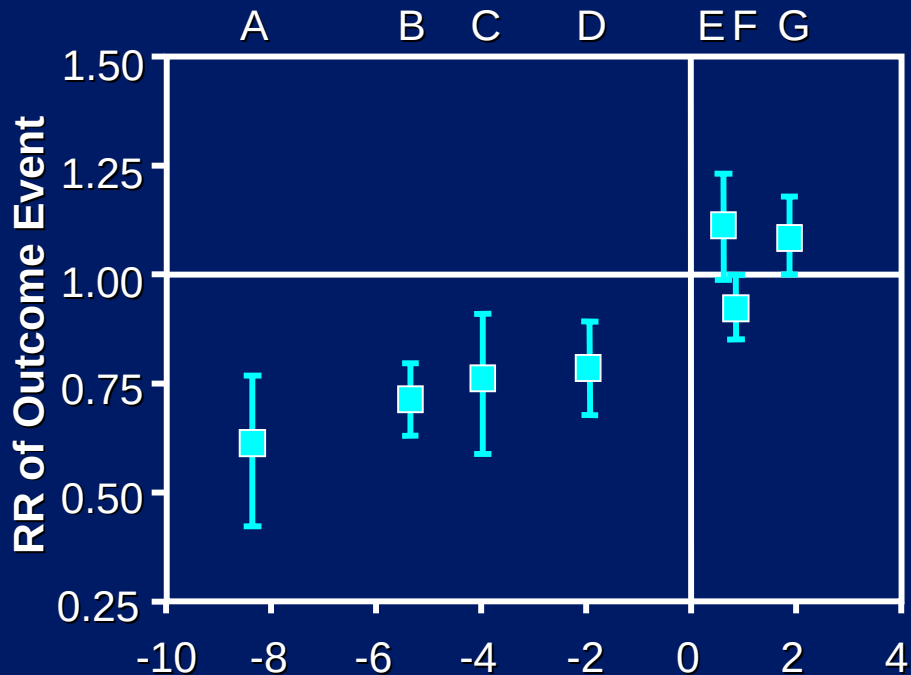
HF

ACE Inhibitor vs D/BB	2/0		1.07 (0.96, 1.19)
CA vs D/BB	1/0		1.33 (1.21, 1.47)
ACE Inhibitor vs CA	1/1		0.82 (0.73, 0.92)

0.5 Favors 1.0 Favors 2.0
First Listed Second Listed

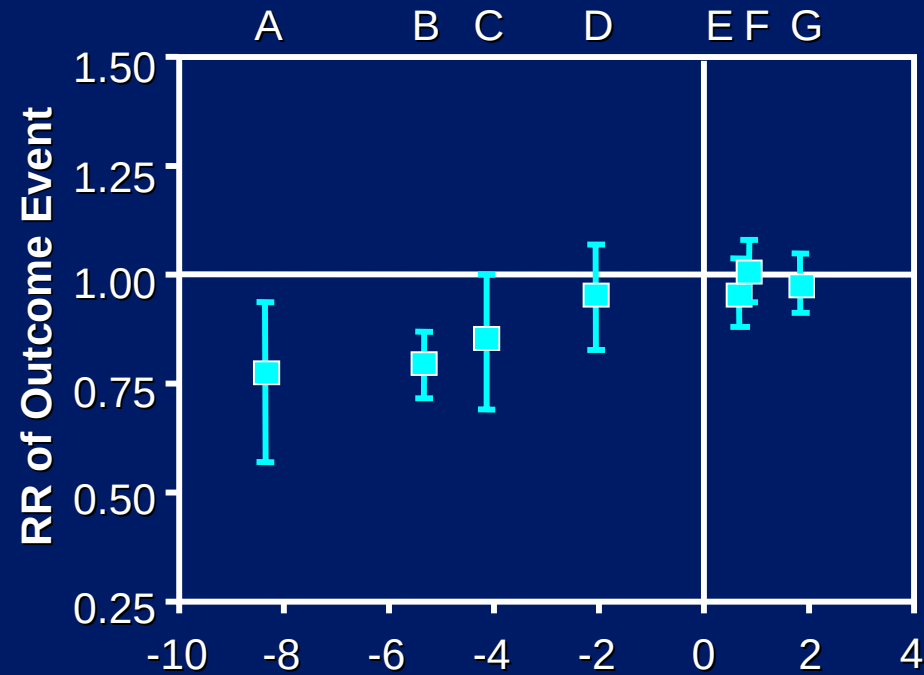
BP-Lowering Treatment Trialists

Stroke



**Systolic BP Difference Between
Randomized Groups (mm Hg)**

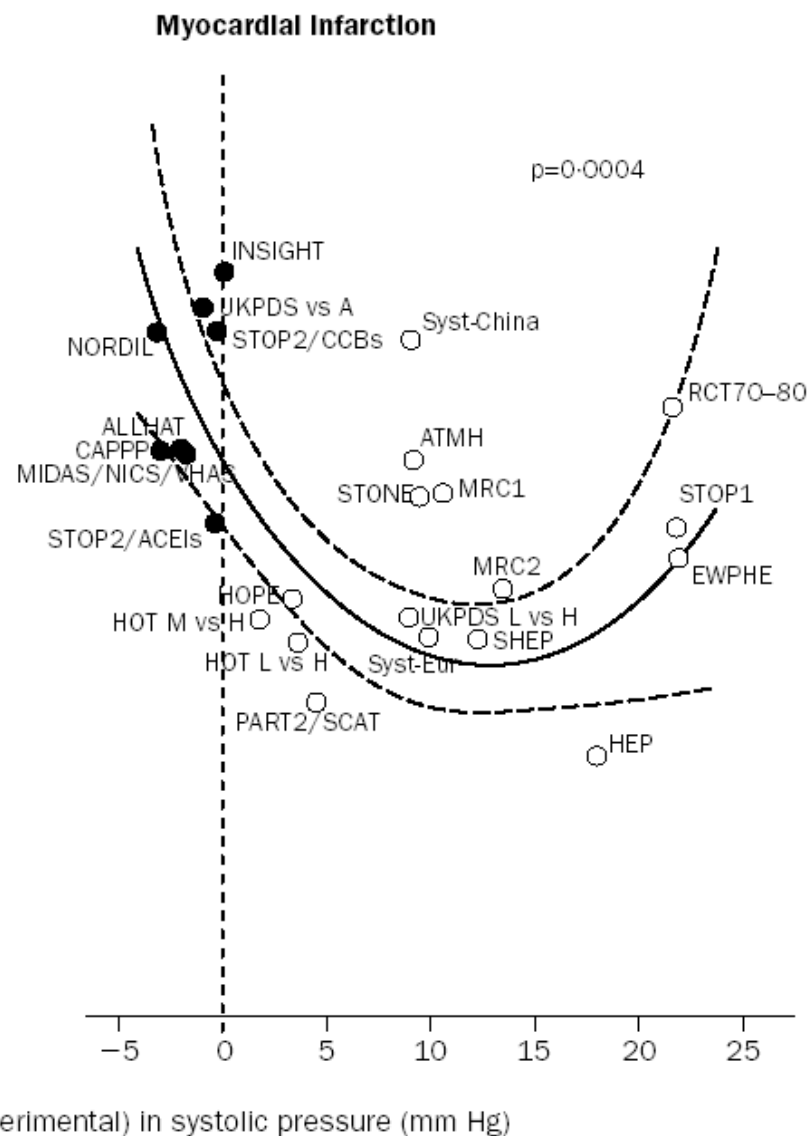
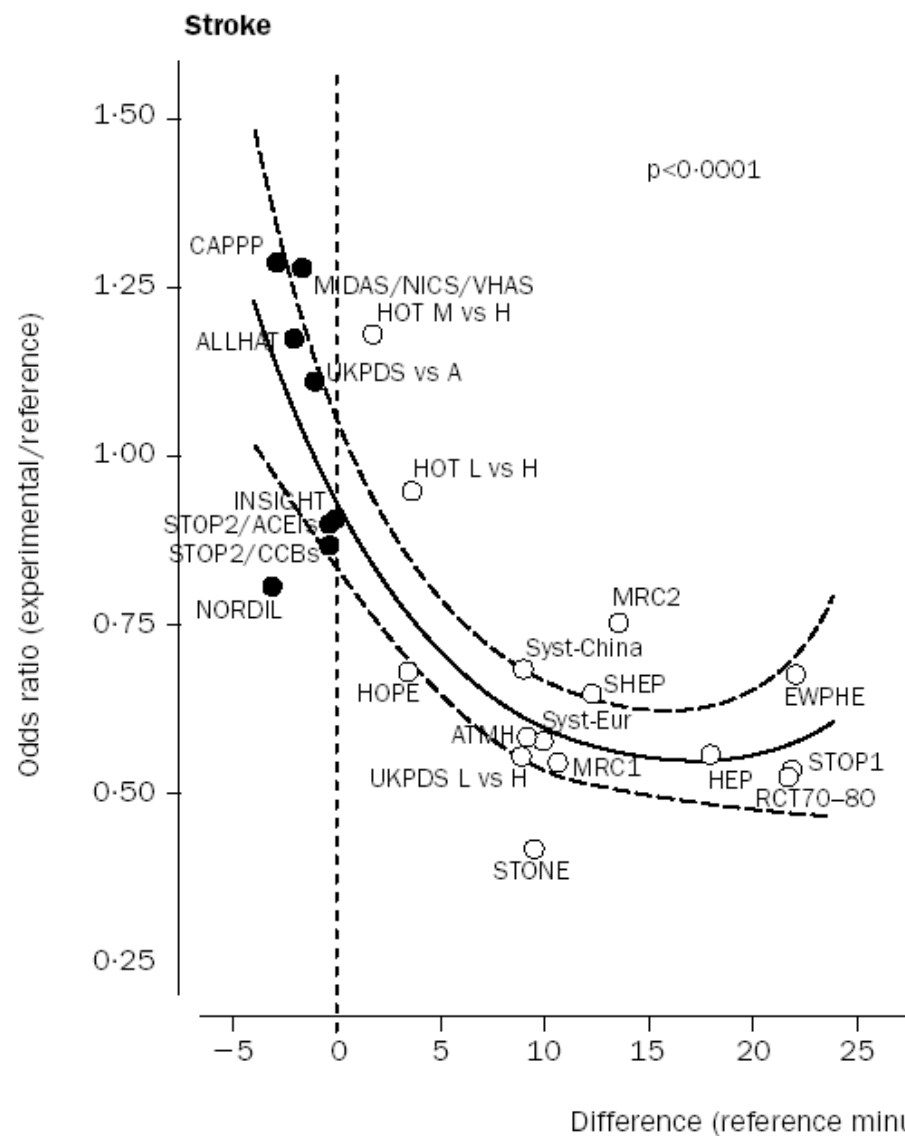
CHD



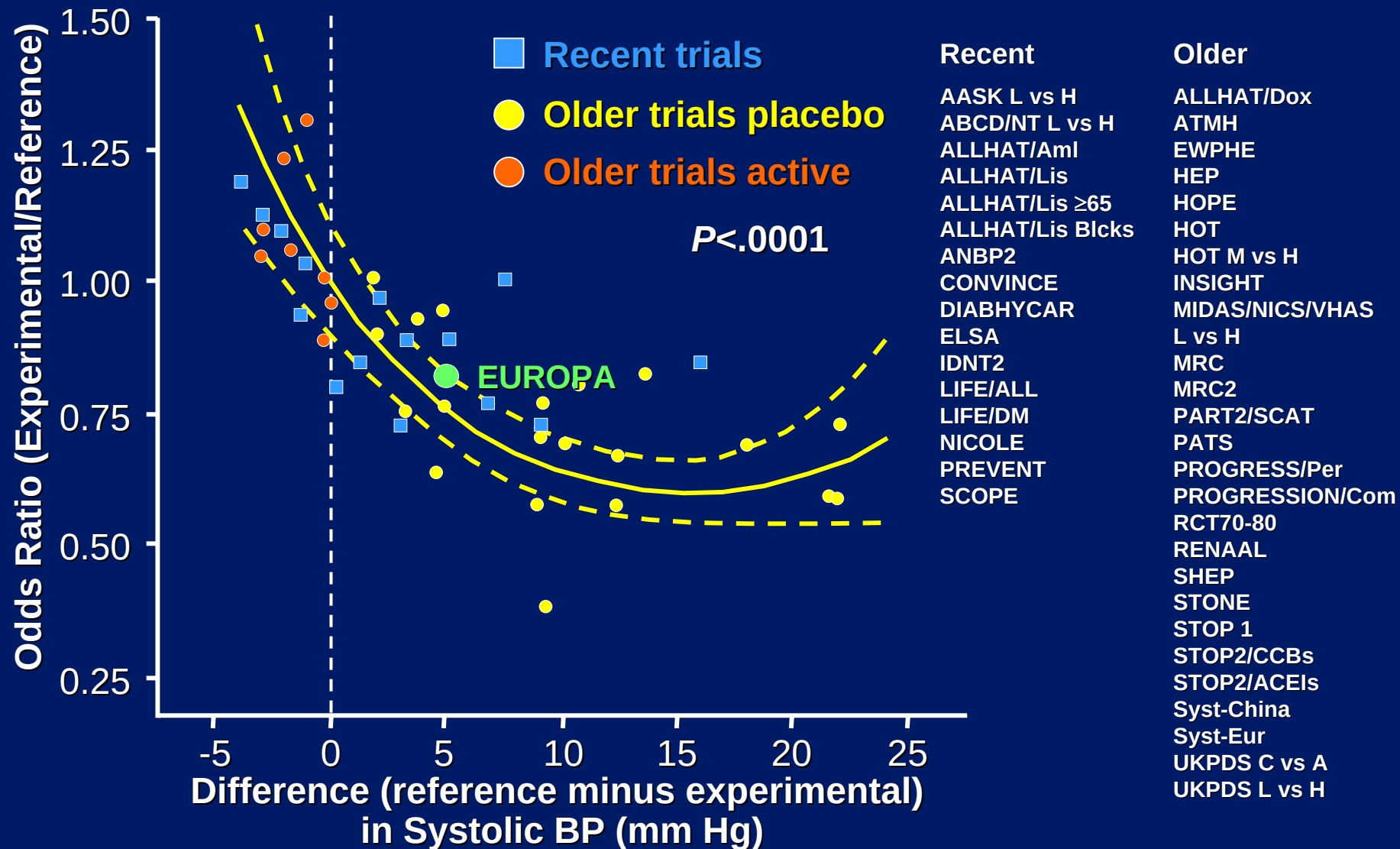
**Systolic BP Difference Between
Randomized Groups (mm Hg)**

A = CA vs placebo; B = ACE inhibitor vs placebo; C = more intensive vs less intensive blood-pressure-lowering; D = ARB vs control; E = ACE inhibitor vs CA; F = CA vs diuretic or β -blocker; G = ACE inhibitor vs diuretic and β -blocker.

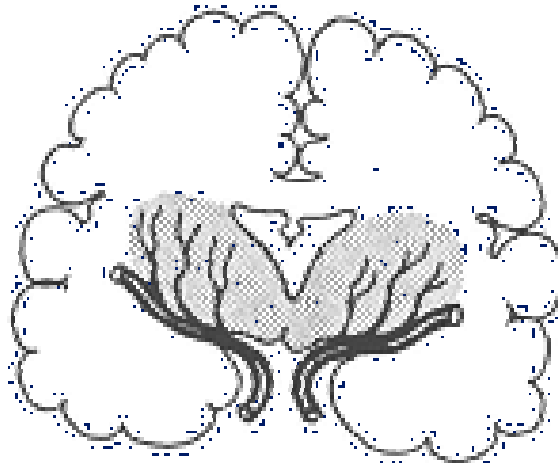
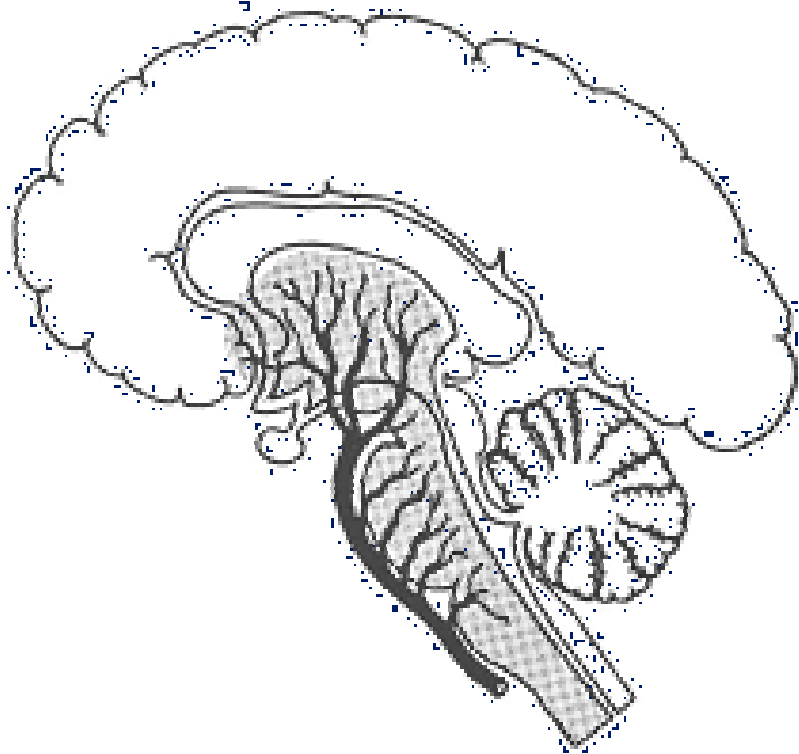
Blood Pressure Lowering Treatment Trialists' Collaboration. *Lancet*. 2003;362:1527-1535.



Odds Ratio for CV Events and Systolic BP Difference: Recent and Older Trials

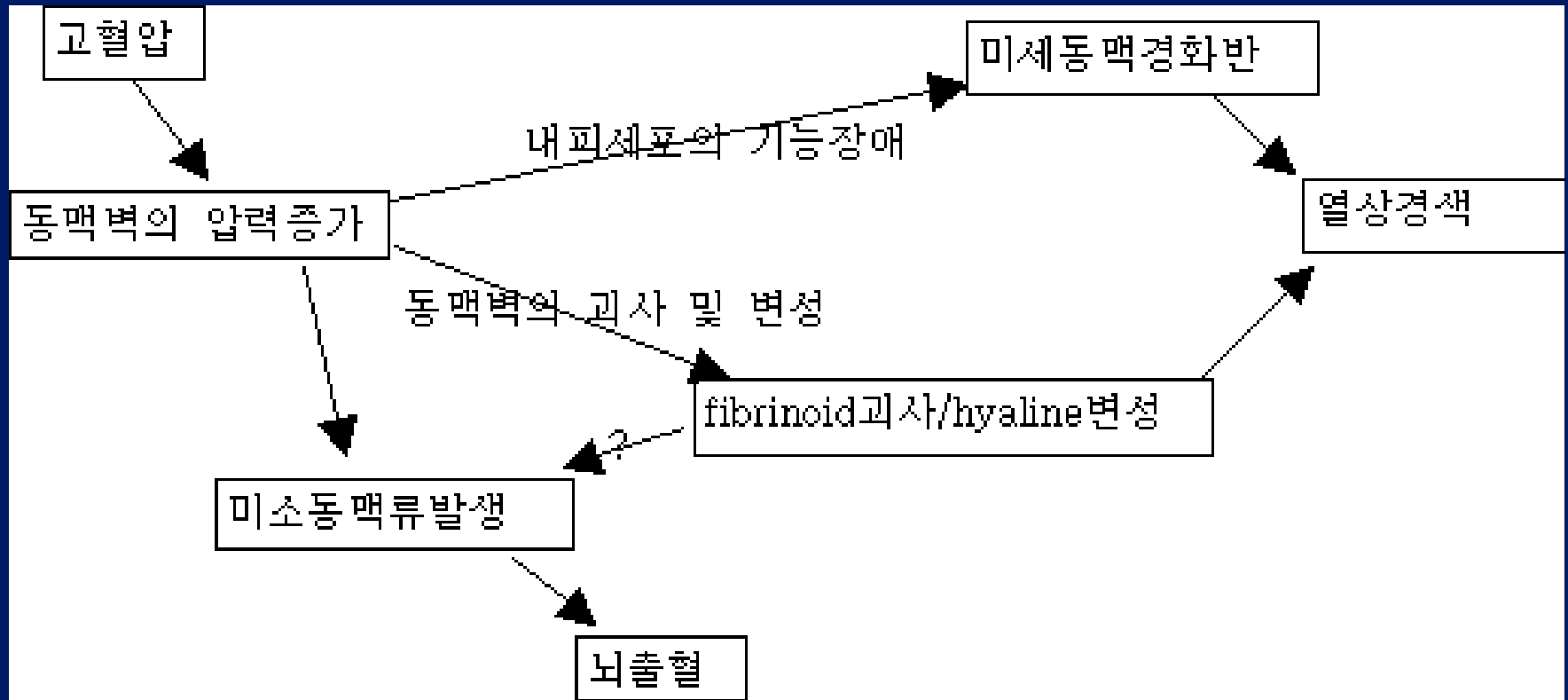


Fox. *Lancet*. 2003;362:782-788; Staessen et al. *J Hypertens*. 2003;21:1055-1076.



큰 동맥에서 갑자기
작은 동맥이 분지된
다. 따라서 혈관벽
에 비해서 큰 벽장
력이 가해진다

고혈압과 소동맥의 변화



신장보호와 혈압치료

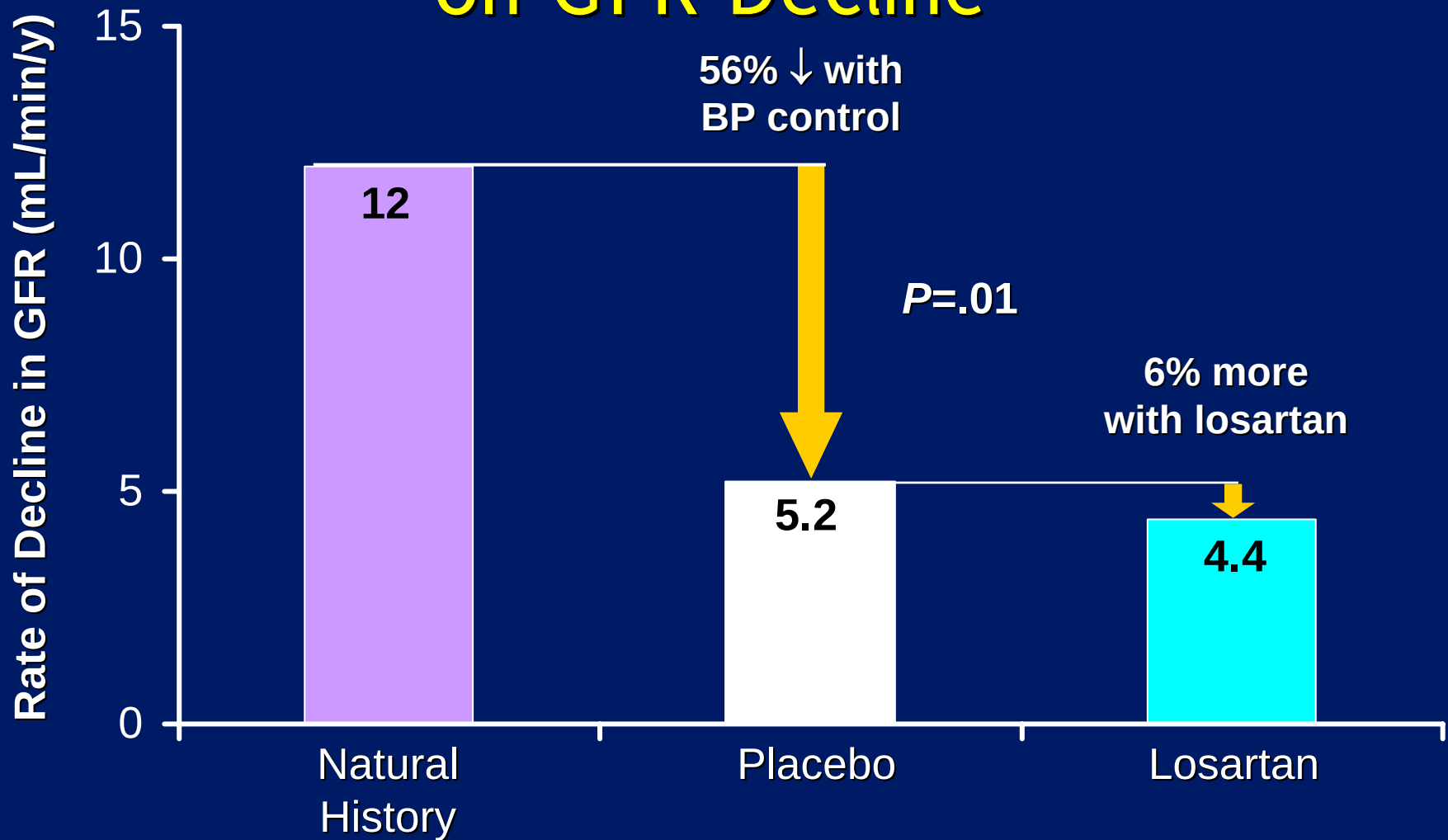


End-Stage Renal Disease or 50% Decline in GFR

Diabetics vs Non-Diabetics

	Chlorthal.	Amlod.	Lisin.
Total	3.2%	2.8%	3.3%
Diabetics	5.0%	4.9%	5.2%
Non - Diabetics	2.2%	$\leftrightarrow$ 0.73 p=0.01 1.6%	2.3%

RENAAL: Effect of BP Control, ARB on GFR Decline



GFR=glomerular filtration rate.

Bakris et al. *Am J Kidney Dis*. 2000;36:646-661; Brenner et al. *N Engl J Med*. 2001;345:861-869.

결론

- ◆ 강압 효과>>약제의 특이효과
- ◆ 혈압을 조절하는 것이 중요
- ◆ 고 위험군에서는 특히 중요하며 병합요법이 중요
- ◆ 일반적인 고혈압의 경우에 표적장기 손상을 감소시키기 위해서 특별한 약제의 선택은 필요하지 않다