

1999 Framingham Fran -

2) klin , , 가 Wi -

(pulse pressure)

ndkessel()

160 mmHg

수축기 고혈압 90 95 mmHg 60

65 75% SHEP,⁴⁾ Syst - Eur,⁵⁾ Syst - China⁶⁾

(Table 1).

60 NICS - EH⁷⁾

가 가

가³⁾

SHEP⁴⁾ Syst - Eur⁵⁾

4

Syst - China⁶⁾ STONE⁸⁾

가 5 8

가

JNC VI WHO/ISH 가

140 mmHg

Table 1. Clinical trials of isolated systolic hypertension in the elderly

	SHEP	Syst-Eur	Syst-China
Age	60	60	60
Numbers	4,736	4,695	2,394
Systolic blood pressure	160 - 219	160 - 219	160 - 219
Diastolic blood pressure	<90	<95	<95
Primary drug	Diuretic	Calcium antagonist	Calcium antagonist
Secondary combined drugs	Beta blocker	ACEI, Diuretic	ACEI, Diuretic
Follow-up (years)	4.5	2.0	4.0
Blood pressure before treatment	170/77	174/86	170/86
Blood pressure after treatment			
Treatment group	143/68	151/79	150/81
Placebo group	155/72	161/84	159/84
Effect of treatment (RR)			
Cerebrovascular disease	0.67	0.58	0.62
Myocardial infarction	0.73	0.70	1.06
Heart failure	0.46	0.71	0.42
All cardiovascular disease	0.68	0.69	0.63

SHEP : systolic hypertension in the elderly program, Syst-Eur : systolic hypertension in Europe, Syst-China : systolic hypertension in China, ACEI : angiotensin converting enzyme inhibitor, RR : relative risk

icular ejection), (arterial stiffness)
 (wave reflection)
 가
 50 가
 가
 1/2
 4 2 (pulsati -
 가 lity)
 60 가 가
 140 mmHg, 70 150 mmHg, 80 160 mmHg
 80 가 (pulse wave)
 80 meta - analysis (incident
 (INDANA) , , wave) (refl -
 wave) ected wave)
 가
 10)
 가 가 가
 가 가 가
 HYVET (Hy - 가 (Fig. 1).
 pertension in the very elderly trial) 가
 가
맥 압 가
 Framingham
 Framingham 2001 Fr - 가 가 가
 amingham Franklin 11) 가 el -
 astin
 50 collagen 가
 가 가 가
 50 가 가 가
 , 60 가 가
 가 (Fig. 2).
 50% 가
 (ventr -

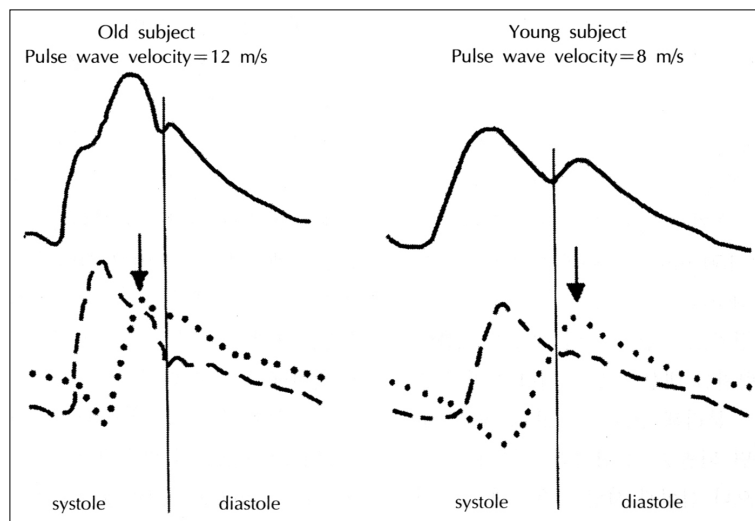


Fig. 1. Pressure waves in young and old subjects. Measured wave (—) ; forward incident wave (---) ; backward reflected wave (...).

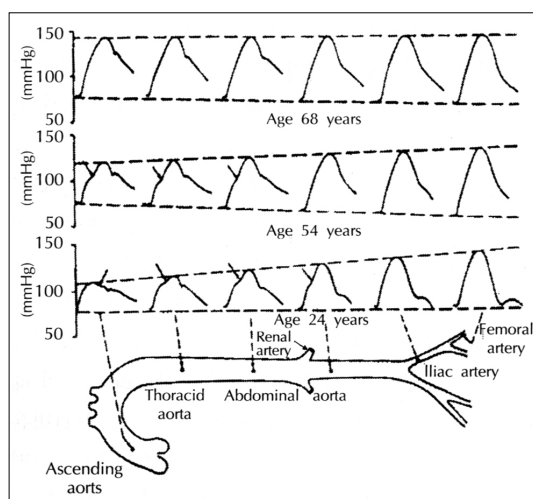


Fig. 2. Pressure wave recorded in different sites in three adult subjects.

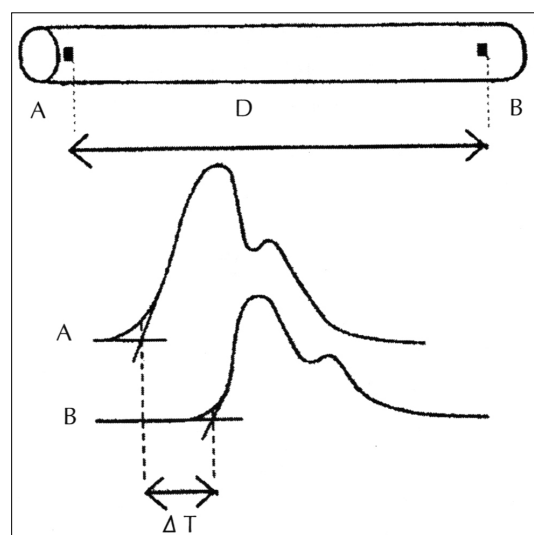


Fig. 3. Pulse wave velocity measurement. A : wave recorded by the proximal transducer, B : wave recorded by the distal transducer, ΔT : time delay between the foot waves, D : distance traveled by the wave.

(pulse wave velocity : PWV)가

. PWV

(PWV = D / ΔT) (Fig. 3)

PWV (-) ,

PWV (-) ,

-) (-) .

PWV

PWV 가, PWV

¹²⁾

PWV

¹³⁾

, , , , , PWV

PWV

가

PWV

요약

Framingham 가
60 .
가 .
가
가 .
가 .
가 .
가 .
가 .
가 .
가 , spiron-
lactone, ACE ,
가 . AngII AT₁
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중심 단어 : ; ; ; .

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