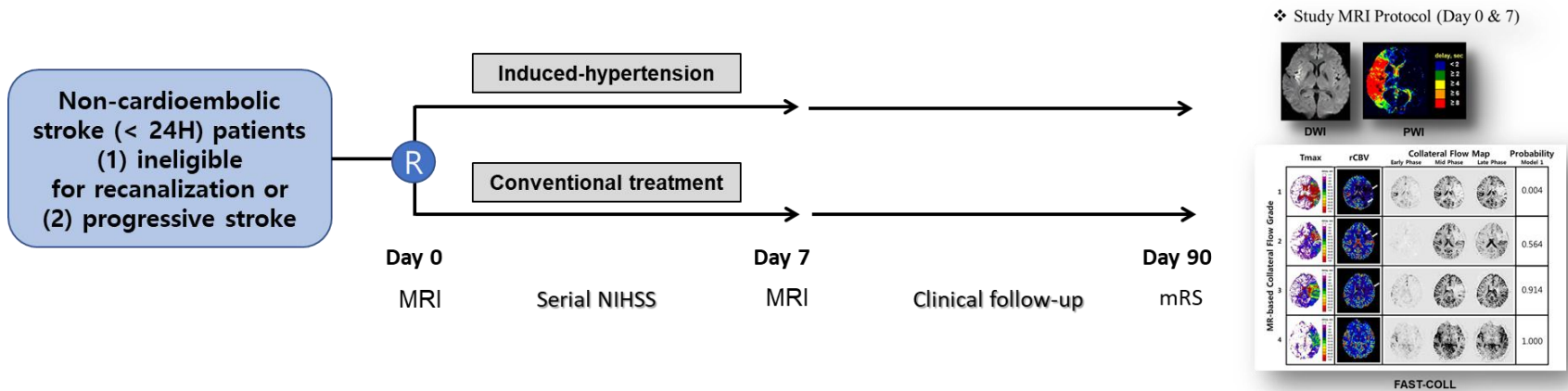
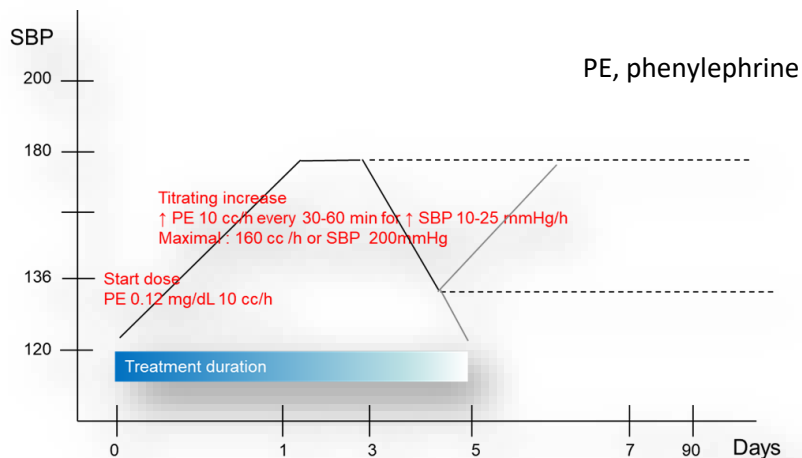


Therapeutic Induced Hypertension in Acute Stroke Patients with Non-cardioembolic Stroke : a Multicenter, Randomized Controlled Trial

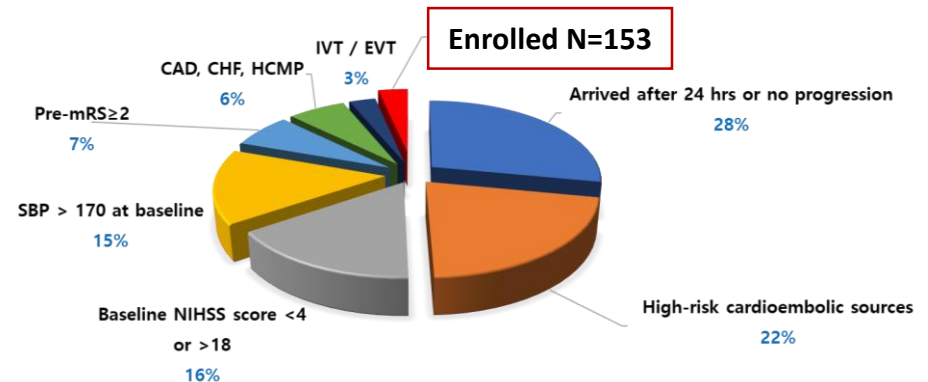
Hypothesis: Phenylephrine induced-hypertension can result in good clinical response without serious complications in patients with non-cardioembolic ischemic stroke.



Induced Hypertension Protocol



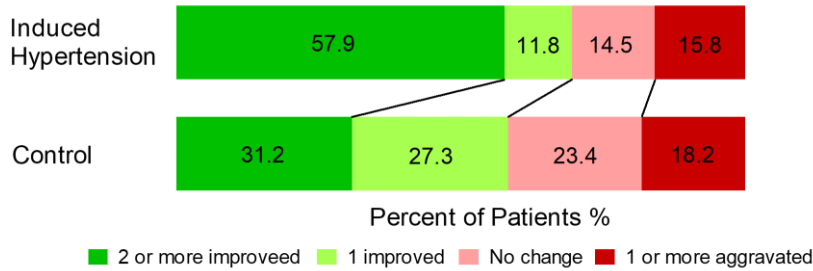
Screening Results



NIHSS score changes (Day 0 Vs. 7)

NIHSS ≥ 2 , 57.9% Vs. 31.2%

NIHSS change

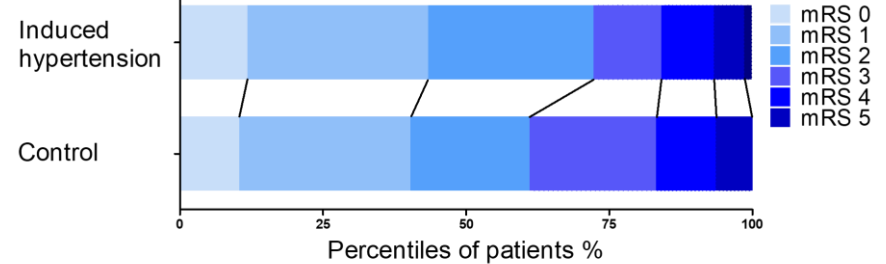


NNT: 3.7, 95% CI (2.4-7.3)

mRS at 3 months

mRS ≤ 2 , 75.0% Vs. 63.2%

3 month mRS



NNT: 8.4, 95% CI (3.8-9.3)

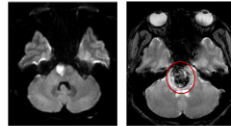
Safety outcomes

	Control group (n=77)	Treatment group (n=76)	P-value
Stroke recurrence	0 (0.0)	0 (0.0)	N/A
Symptomatic ICH	0 (0.0)	1 (1.3)	0.313
Symptomatic edema	0 (0.0)	1 (1.3)	0.313
Acute myocardial infarction	0 (0.0)	0 (0.0)	N/A
*All-cause death	0 (0.0)	1 (1.3)	0.313
ICH on follow-up MRI	0 (0.0)	5 (6.6)	0.085
*Other side effect	0 (0.0)	8 (10.5)	0.003

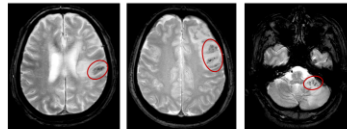
*Respiratory failure caused by pneumonia

*Other side effect: Headache, n=6; Palpitation, n=1; Urticaria n=1.

A case with sICH

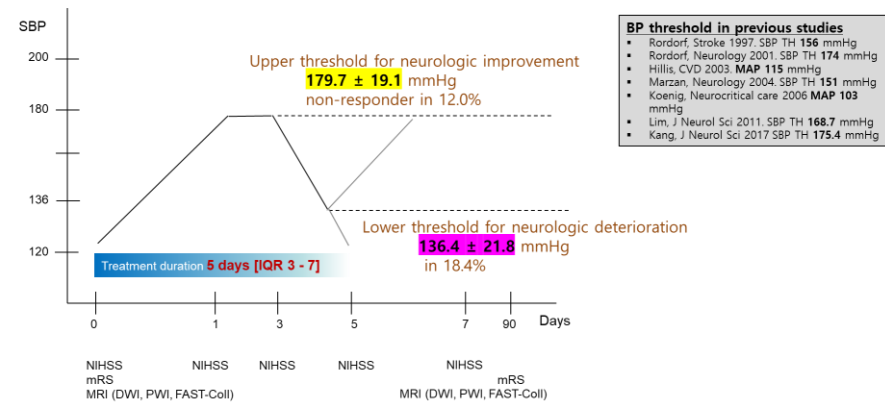


Asymptomatic HT cases



NNT for sHT: 76, 95% CI (25.8-93.1)

Target BP & deterioration during tapering



❖ Therapeutic induced hypertension in IVT/EVT ineligible or progressive non-cardioembolic stroke patient was feasible and safe

❖ Collateral enhancement with IV phenylephrine was associated with early neurologic improvement and 3 months functional independence (Class I, Level B)