

Nicardipine continuous infusion

Fig1

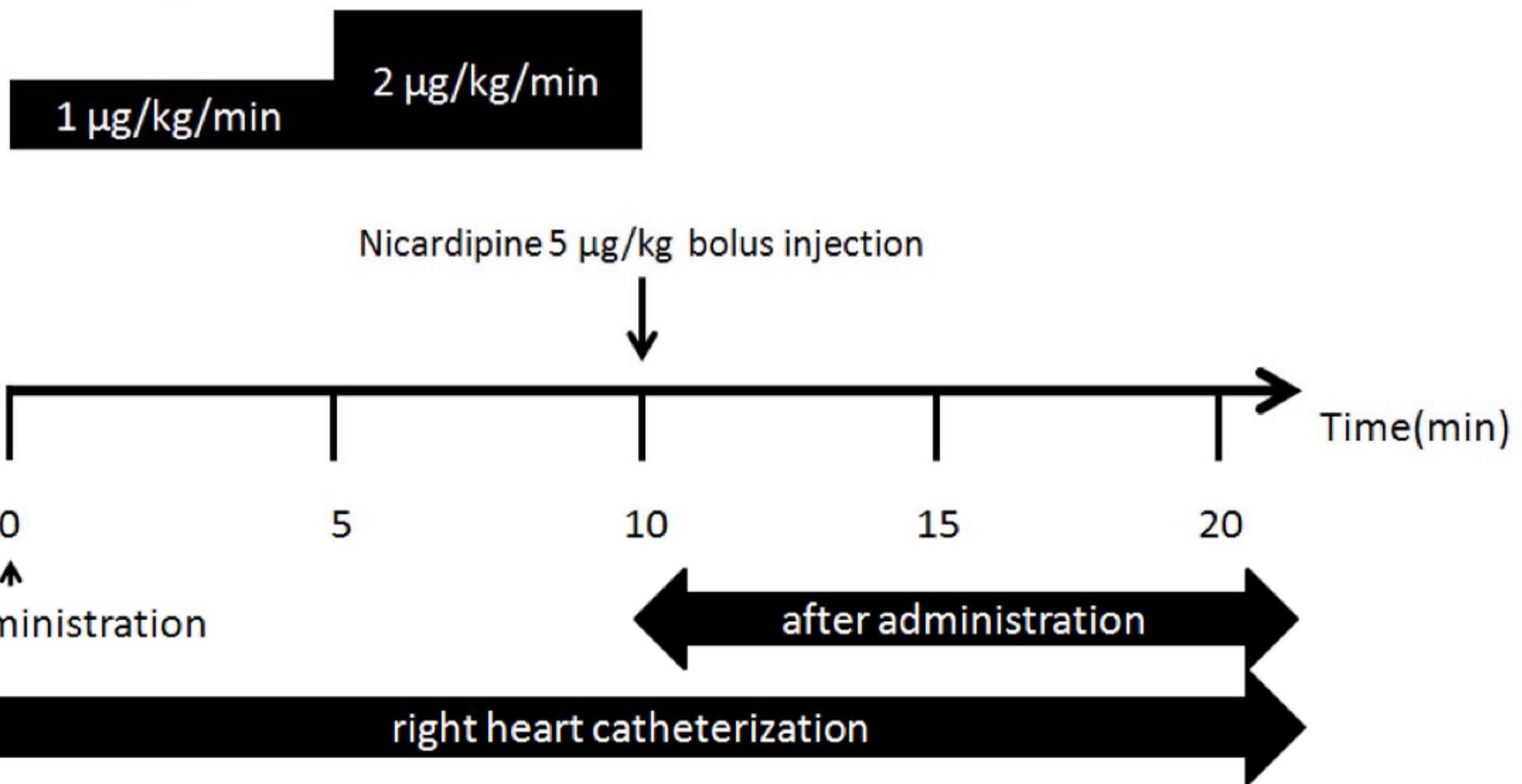
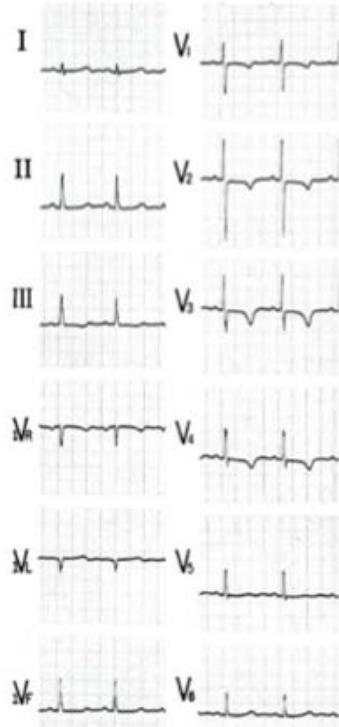


Fig2

(A)



(B)

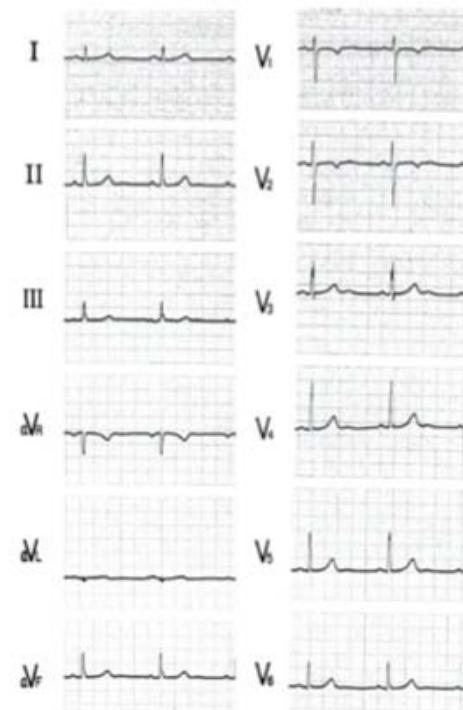
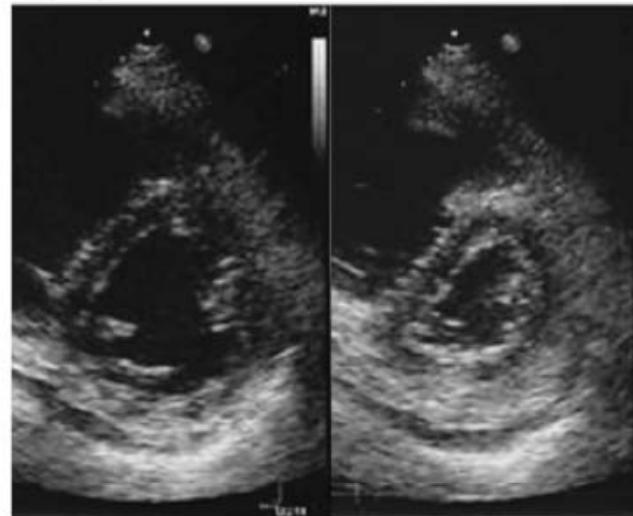
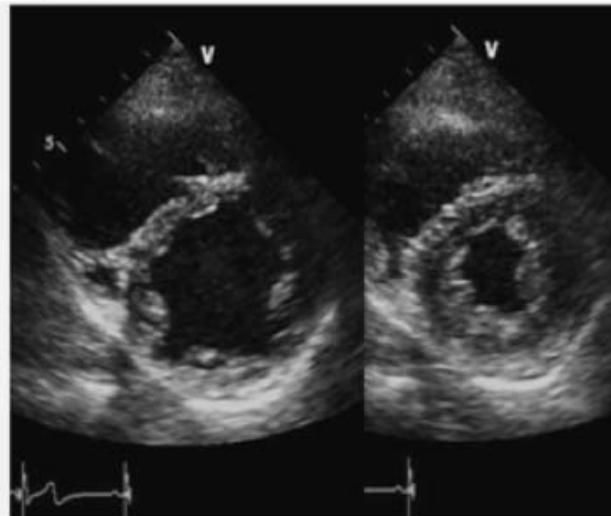


Fig3

(A)



(B)



(C)

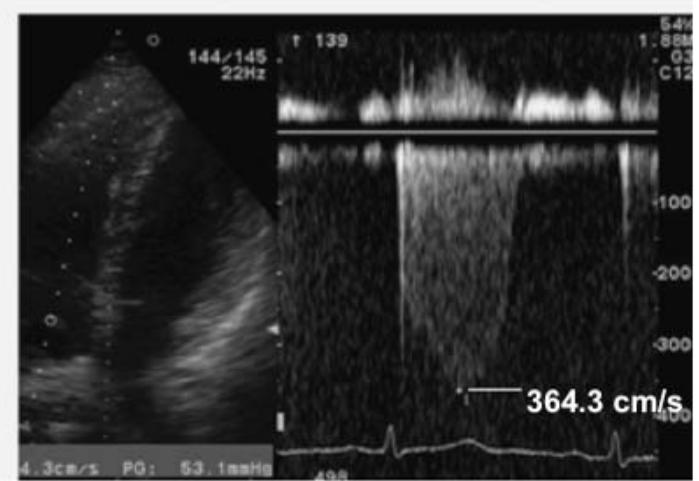
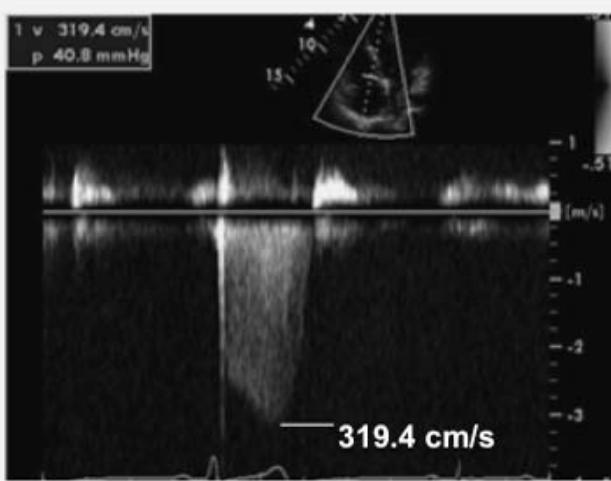
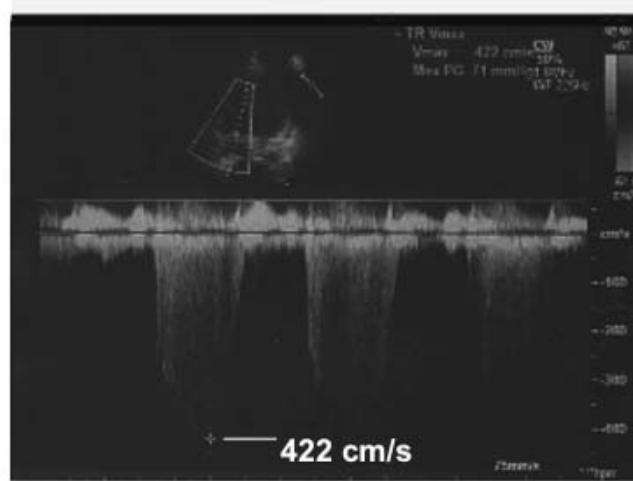
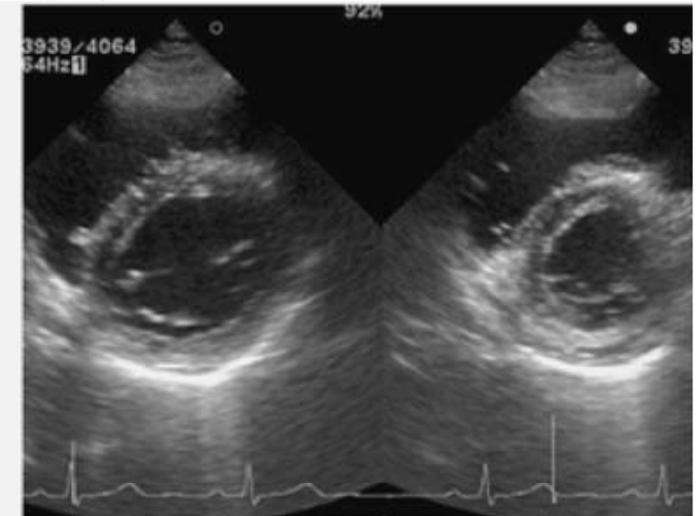


Table 1. Baseline Characteristics

Variable	All (n=65)
Sex-no. (%)	
Female	43(66.2)
Male	22(33.8)
Age (years)	37±17
Disease Duration (month)	48±73
Cause of PAH -no. (%)	
Idiopathic	45(69.2)
Congenital heart disease	9(13.8) ASD;8, VSD;1
Connective tissue disease	5(7.7) SLE;3, SSc;1, MCTD;1
Others	6(9.2)
Medications -no. (%)	
CCB	8(12.3)
Oral drug other than CCB	33(50.8)
Epoprostenol	8(12.3)
Clinical characteristics	
Height (cm)	161±9.0
Weight (kg)	56±13
Body mass index (kg/m²)	22±4.4
WHO functional class	2.4±0.6
BNP (pg/mL)	130±177
Hemodynamics	
Heart rate (/min)	78±15
BP (s/d/m) (mmHg)	113±17/62±12/79±13
PAP (s/d/m) (mmHg)	84±26/36±15/54±18
Right atrial pressure (mmHg)	3.9±3.6
CO (L/min)/CI(L/min/m²)	4.0±1.7/2.5±0.9
TPR (dyne·sec·cm⁻⁵)	1223±648

PAH = pulmonary arterial hypertension; CCB = calcium channel blocker; s/d/m = systolic/diastolic/mean; BNP = plasma concentration of brain natriuretic

peptide; CO = cardiac output; CI = cardiac index, TPR = total pulmonary resistance; ASD = atrial septal defect, VSD = ventricular septal defect; SLE = systemic lupus erythematosus, SSc = systemic scleroderma, MCTD = mixed connective tissue disease

Table 2. Hemodynamics during Nicardipine-challenging Test

	Pre	Post
Non-responder		
sBP (mmHg)	113±17	106±16
mPAP (mmHg)	54±18	54±19
CO (L/min)	4.0±1.7	4.5±1.8
TPR (dynes·sec·cm ⁻⁵)	1236±646	1090±527
Responder 1		
sBP (mmHg)	105	99
sRVP (mmHg)	69	41
CO (L/min)	2.0*	3.0*
TPR (dynes·sec·cm ⁻⁵)	-	-
Responder 2		
sBP (mmHg)	117	92
mPAP (mmHg)	37	27
CO (L/min)	6.1	7.3
TPR (dynes·sec·cm ⁻⁵)	483	297

*S_{RA}O₂ was substituted for S_{PA}O₂, and cardiac output was calculated by the Fick oxygen method.

sBP = systolic blood pressure; mPAP = mean pulmonary artery pressure; sRVP = systolic right ventricular pressure; CO = cardiac output; TPR = total pulmonary resistance