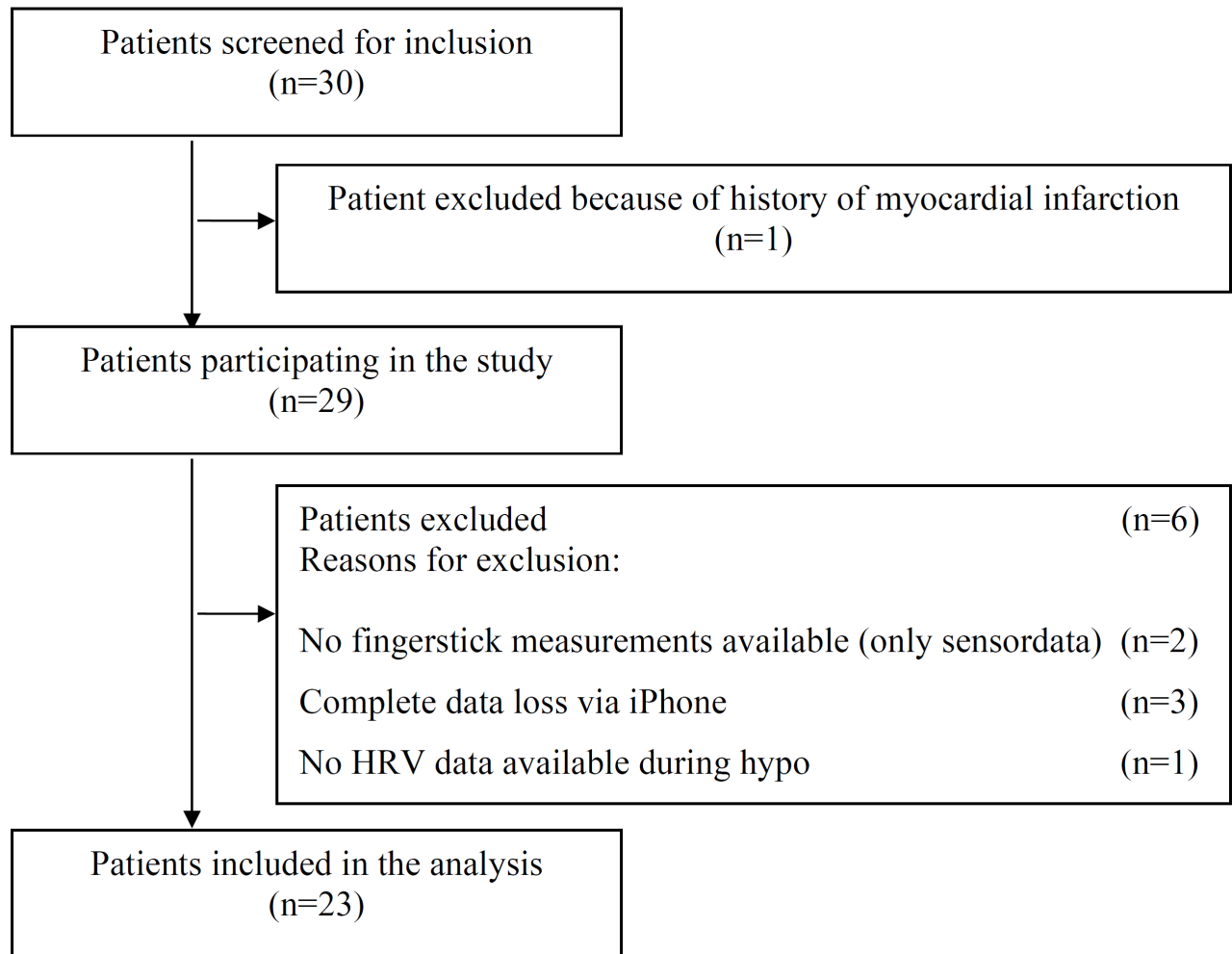


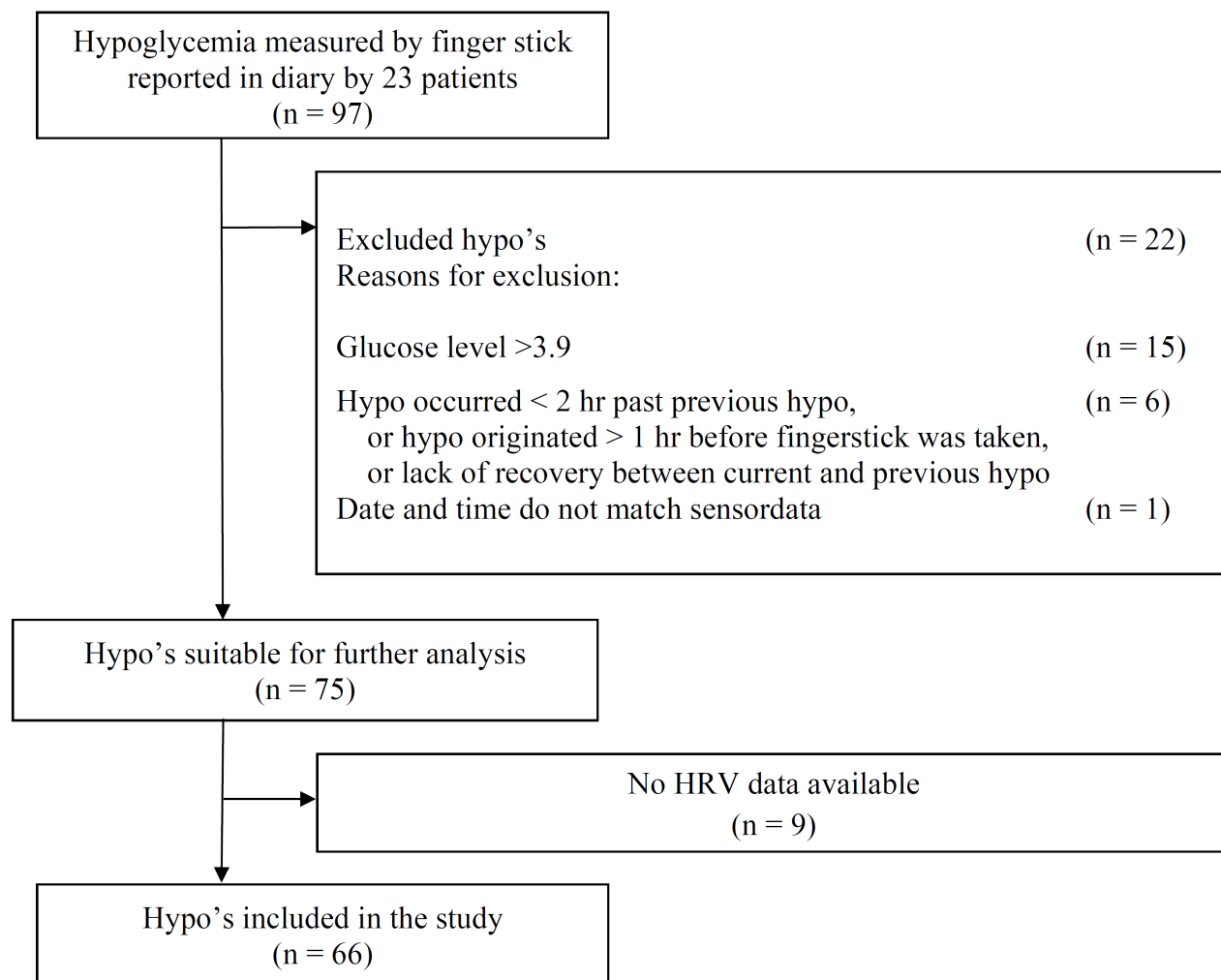
SUPPLEMENTARY DATA

**Supplementary Figure S1. Flowchart of patients included in the study**



SUPPLEMENTARY DATA

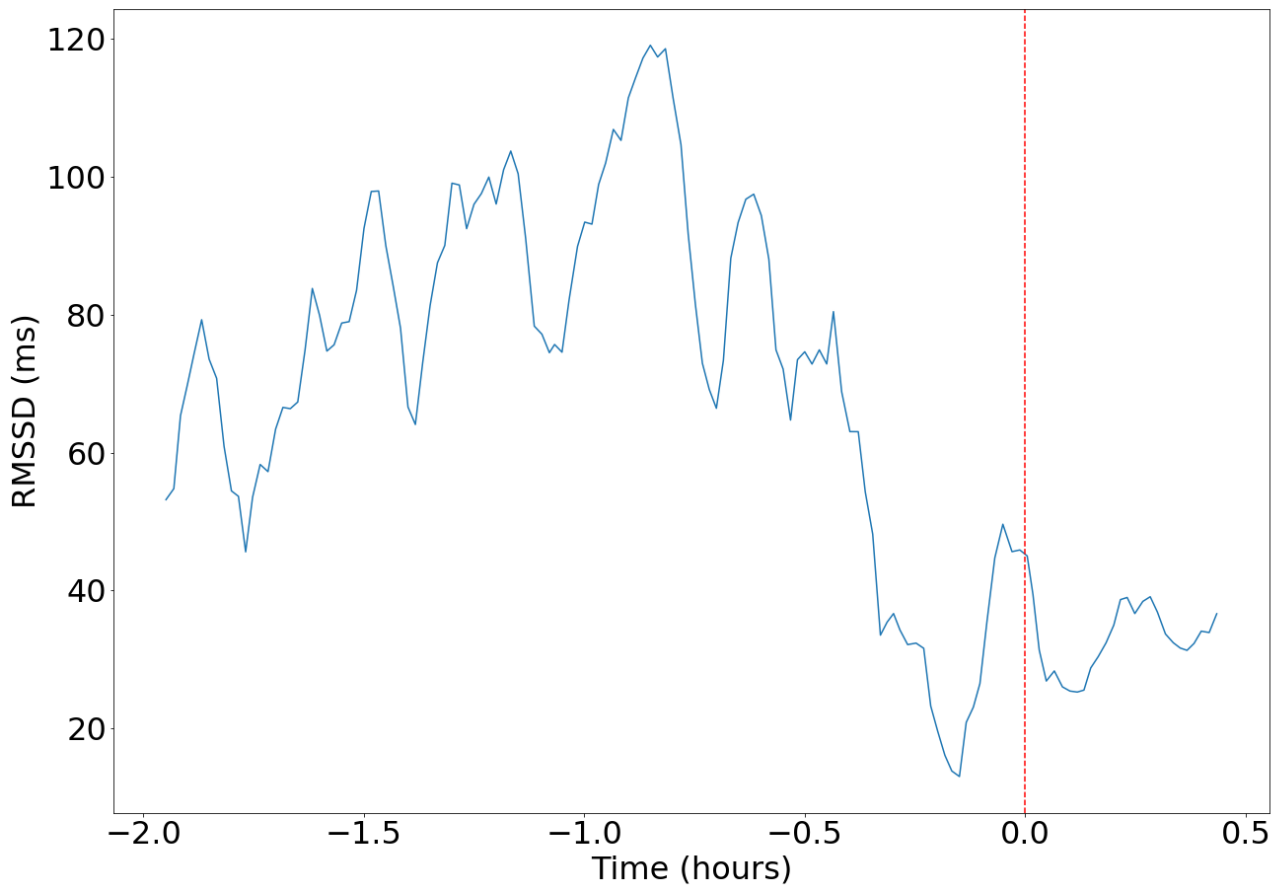
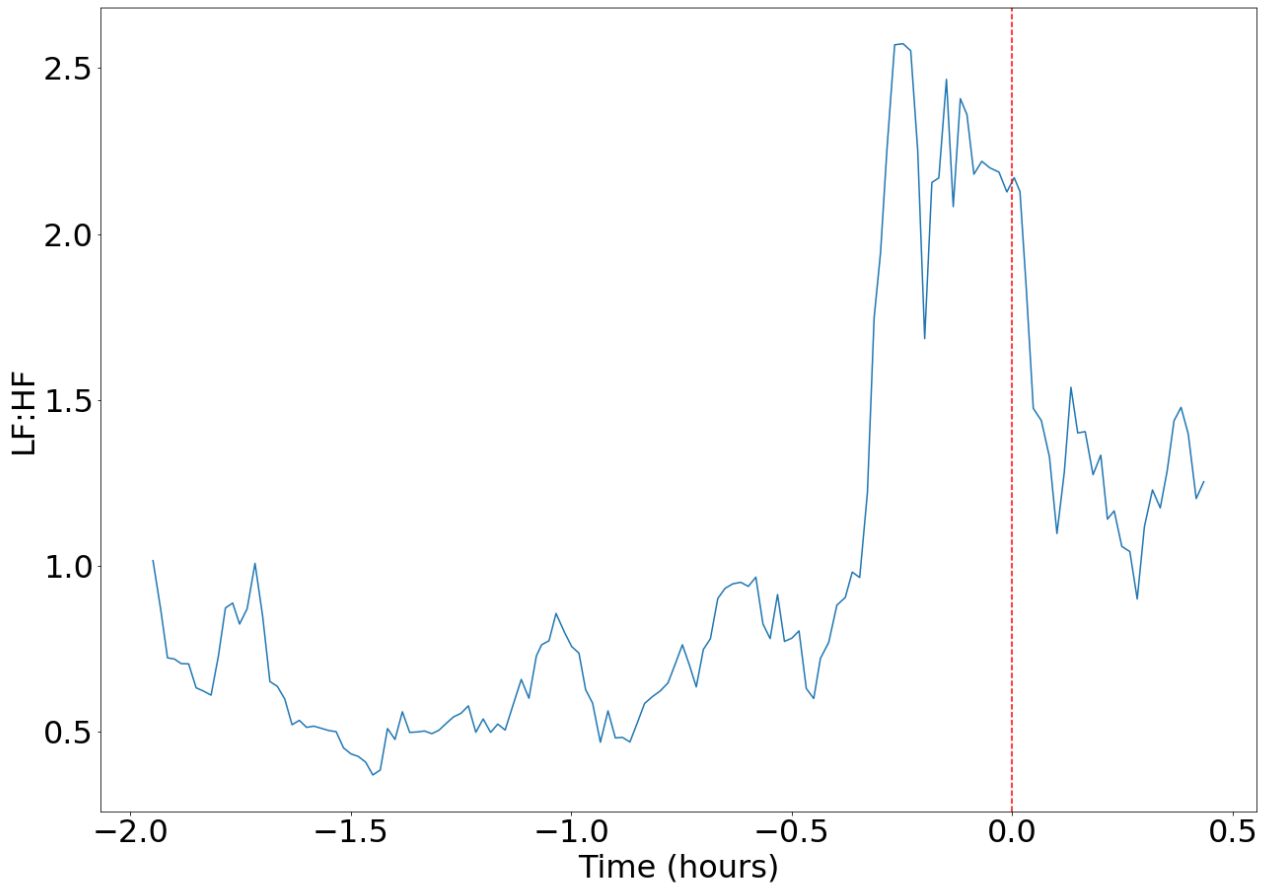
**Supplementary Figure S2. Flowchart of hypoglycemic events**



## SUPPLEMENTARY DATA

**Supplementary Figure S3.** Example of HRV patterns at the initiation of a hypoglycemic event. Top figure LF:HF ratio, bottom figure RMSSD. The red vertical line indicates the time the hypoglycemic event was registered by finger stick measurement.

SUPPLEMENTARY DATA



SUPPLEMENTARY DATA

**Supplementary Table S1.** Baseline characteristics

Male/female	9/14
Age, years	42 ± 11
Blood pressure, mmHg	126/73 ± 12/9
Heart rate, bpm	70 ± 9
Diabetes duration, years	26 ± 10
IAH*	9 (39%)
Insulin regimen, n (%)	
CSII*	21 (91%)
MDI*	2 (9%)
HbA1c, % (mmol/mol)	7.5 ± 0.8 (59 ± 9)
Body Mass Index, kg/m <sup>2</sup>	24.5 ± 3.2
Microvascular complications, n (%)	
Retinopathy	7 (30%)
Neuropathy	5 (22%)
Nephropathy	2 (8.7%)

Data are shown as number (%) or means ± SD. \*IAH denotes impaired awareness of hypoglycemia, CSII denotes continuous subcutaneous insulin infusion, MDI denotes multiple daily injections.

SUPPLEMENTARY DATA

**Supplementary Table S2.** Change in HRV during hypoglycemic event

	- 90 min	- 60 min	- 30 min	hypoglycemic event
Heart rate, bpm	74.5 ± 9.9**	76.2 ± 13.7*	81.4 ± 16.3	85.2 ± 12.6
SDNN, ms	54.5 ± 24.0	57.4 ± 26.0	56.7 ± 31.8	57.5 ± 23.6
RMSSD, ms	26.6 ± 15.0*	29.1 ± 18.8*	26.5 ± 15.8	24.7 ± 12.5
LF:HF	1.3 ± 0.4*	1.3 ± 0.4*	1.4 ± 0.5	1.5 ± 0.4

Data are shown as means ± SD, \*\* p < 0.001, \* p < 0.05 versus hypoglycemic event

SUPPLEMENTARY DATA

**Supplementary Table S3.** Coefficients and p-values linear model

	Coefficient (beta)	Forward Building Step
Intercept	-0.05	
Physical activity (yes)	-0.11*	1
Glucose peak level before hypoglycemia (mmol)	0.04**	2
Sex (m)	0.20**	3
Diabetes duration (years)	0.01*	4
Speed of declining glucose level (mmol/min)	-1.03*	5

Data are shown as means  $\pm$  SD, \*\*  $p < 0.001$ , \*  $p < 0.05$