

Table S1 Cardiovascular complications across pregnancy

Subgroups	N of events (10 weeks)	N at risk (10 weeks)	N of events (30 weeks)	N at risk (30 weeks)	N of events (40 weeks)	N at risk (40 weeks)
Congenital heart disease	0 (0)	37	6 (16.2)	37	9 (26.1)	32
Acquired heart disease	0 (0)	17	7 (41.18)	17	11 (67.06)	10
Any heart disease	0 (0)	54	13 (24.07)	54	20 (39.25)	42

Event rates are provided in brackets (%); Median follow up (95% confidence interval) is calculated with reverse Kaplan-Meier estimator (39 weeks for all entities; maximum follow up 44 weeks for congenital and any heart disease, 40 weeks for acquired heart disease). Complication rate is calculated (N of events/N at risk). *, 100 where N at risk are all patients with are at risk of complication (observation time at least as long as observational time point and no event shown before this time point). Cardiovascular complications were defined as cardiac death, sustained arrhythmia requiring treatment, heart failure and hospitalization due to cardiac causes.

Table S2 Baseline characteristics of the study cohort except preeclampsia

Variables	Total cohort (N=70)	Women with cardiovascular disease (N=60)	Control group (N=10)	P value
Maternal age (years)	34.00 (30.00, 37.00)	34.50 (30.00, 38.00)	31.0 (29.6, 33.3)	0.13
Body mass index (kg/m ²)	23.66 (21.20, 29.00)	23.95 (21.20, 29.00)	22.8 (20.7, 29.4)	0.59
Medical history				
Nulliparous	31 (44.29)	24 (40.00)	7 (70.0)	0.10
Previous Pregnancies	1.0 (0, 2.0)	1.0 (0, 2.0)	0 (0, 1.0)	0.16
Systolic blood pressure (mmHg)	120.00 (110.92, 132.17)	120.00 (110.42, 130.75)	135.00 (120.00, 150.00)	0.24
Diastolic blood pressure (mmHg)	70.00 (64.92, 76.08)	70.00 (64.42, 76.00)	79.0 (70.0, 88.0)	0.21
Preexisting hypertension	6 (8.57)	6 (10.00)	0 (0)	0.58
Hypercholesterolemia	3 (4.29)	3 (5.00)	0 (0)	>0.99
Diabetes Type I/II	2 (2.86)	2 (3.33)	0 (0)	>0.99
Current smoker	16 (22.86)	13 (21.67)	3 (30.0)	0.69
Modified WHO group				
I	19 (27.14)	19 (31.67)	10 (100)	0.052
II	20 (28.57)	20 (33.33)	0 (0)	0.053
III	16 (22.86)	16 (26.67)	0 (0)	0.10
IV	5 (7.14)	5 (8.33)	0 (0)	1.0
History of cardiogenic shock	4 (5.71)	4 (6.67)	0 (0)	>0.99
History of myocardial infarction	1 (1.43)	1 (1.67)	0 (0)	>0.99
History of stroke	3 (4.29)	3 (5.00)	0 (0)	>0.99
Family history of CVD	24 (34.78)	19 (32.20)	5 (50.0)	0.3
Cardiac medication at inclusion				
Antihypertensive Medication	9 (12.86)	9 (15.00)	0 (0)	0.34
Antiarrhythmics	2 (2.86)	2 (3.33)	0 (0)	>0.99
ASS	7 (10.00)	7 (11.67)	0 (0)	0.58
Diuretics	5 (7.14)	5 (8.33)	0 (0)	>0.99
Obstetric and fetal outcomes				
Gestational age at delivery (weeks)	39.0 (37.0, 40.0)	39.00 (36.00, 40.00)	39.5 (39.0, 40.1)	0.03
Offspring birth weight (g)	3215.00 (2748.33, 3610.83)	3172.50 (2644.17, 3569.58)	3420.00 (3151.25, 3703.75)	0.13
Mode of delivery				
Vaginal	24 (39.34)	18 (33.96)	6 (75.00)	0.048
Caesarian Section	37 (60.66)	35 (66.04)	2 (25.0)	0.049

Baseline characteristics of the participants were described with median values for continuous variables (25th, 75th percentile) and proportions for categorical variables.

Table S3 Baseline characteristics of the study cohort except cardiomyopathies

Variables	Total cohort (N=71)	Control group (N=10)	Women with cardiovascular disease (N=61)	P value
Maternal age (years)	34.00 (29.17, 37.00)	31.00 (29.58, 33.25)	34.00 (29.00, 37.33)	0.17
Body mass index (kg/m ²)	23.79 (21.20, 29.03)	22.81 (20.66, 29.44)	24.30 (21.20, 29.03)	0.57
Medical History				
Nulliparous	32 (45.07)	7 (70.00)	25 (40.98)	0.17
Previous Pregnancies	1.00 (0, 2.00)	0 (0, 1.00)	1.00 (0, 2.00)	0.18
Systolic blood pressure (mmHg)	120.00 (110.92, 129.25)	135.00 (120.00, 150.00)	118.50 (110.42, 128.17)	0.21
Diastolic blood pressure (mmHg)	70.00 (63.75, 76.08)	79.00 (70.00, 88.00)	70.00 (62.25, 76.00)	0.21
Preexisting Hypertension	8 (11.43)	0 (0)	8 (13.33)	0.59
Hypercholesterolemia	3 (4.29)	0 (0)	3 (5.00)	>0.99
Diabetes Type I/II	2 (2.86)	0 (0)	2 (3.33)	>0.99
Current smoker	15 (21.43)	3 (30.00)	12 (20.00)	0.44
Modified WHO group				
I	22 (30.99)	0 (0)	22 (36.07)	0.02
II	20 (28.17)	0 (0)	20 (32.79)	0.053
III	14 (19.72)	0 (0)	14 (22.95)	0.19
IV	5 (7.04)	0 (0)	5 (8.20)	>0.99
History of cardiogenic shock	4 (5.63)	0 (0)	4 (6.56)	>0.99
History of myocardial infarction	1 (1.41)	0 (0)	1 (1.64)	>0.99
History of stroke	3 (4.23)	0 (0)	3 (4.92)	>0.99
Family history of CVD	25 (35.21)	5 (50.00)	20 (32.79)	0.31
Cardiac medication at inclusion				
Antihypertensive Medication	10 (14.29)	0 (0)	10 (16.67)	0.34
Antiarrhythmics	2 (2.86)	0 (0)	2 (3.33)	>0.99
ASS	7 (10.00)	0 (0)	7 (11.67)	0.58
Diuretics	5 (7.14)	0 (0)	5 (8.33)	>0.99
Obstetric and fetal outcomes				
Gestational age at delivery (weeks)	39.00 (37.00, 40.00)	39.50 (39.00, 40.58)	39.00 (36.00, 40.00)	0.03
Offspring birth weight (g)	3220.00 (2761.67, 3613.33)	3420.00 (3151.25, 3703.75)	3195.00 (2665.00, 3590.83)	0.14
Mode of delivery				
Vaginal	24 (39.34)	6 (75.00)	18 (33.96)	0.048
Caesarian Section	37 (60.66)	2 (25.00)	35 (66.04)	0.048

Baseline characteristics of the participants were described with median values for continuous variables (25th, 75th percentile) and proportions for categorical variables.

Table S4 Baseline characteristics of the study cohort except arrhythmia

Variables	Total cohort (N=68)	Control group (N=10)	Women with cardiovascular disease (N=58)	P value
Maternal age (years)	33.00 (29.42, 37.00)	31.00 (29.58, 33.25)	34.00 (29.00, 37.00)	0.21
Body mass index (kg/m ²)	23.62 (21.24, 29.02)	22.81 (20.66, 29.44)	23.70 (21.55, 29.00)	0.54
Medical history				
Nulliparous	33 (48.53)	7 (70.00)	26 (44.83)	0.18
Previous Pregnancies	1.00 (0, 2.00)	0 (0, 1.00)	1.00 (0, 2.00)	0.25
Systolic blood pressure (mmHg)	120.00 (110.92, 132.17)	135.00 (120.00, 150.00)	120.00 (110.42, 130.75)	0.24
Diastolic blood pressure (mmHg)	70.00 (63.75, 76.08)	79.00 (70.00, 88.00)	70.00 (62.25, 75.58)	0.19
Preexisting hypertension	8 (11.94)	0 (0)	8 (14.04)	0.59
Hypercholesterolemia	3 (4.48)	0 (0)	3 (5.26)	1.00
Diabetes Type I/II	2 (2.99)	0 (0)	2 (3.51)	1.00
Current smoker	14 (20.90)	3 (30.00)	11 (19.30)	0.42
Modified WHO group				
I	18 (26.47)	0 (0)	18 (31.03)	0.052
II	19 (27.94)	0 (0)	19 (32.76)	0.052
III	16 (23.53)	0 (0)	16 (27.59)	0.10
IV	5 (7.35)	0 (0)	5 (8.62)	>0.99
History of cardiogenic shock	4 (5.88)	0 (0)	4 (6.90)	>0.99
History of myocardial infarction	1 (1.47)	0 (0)	1 (1.72)	>0.99
History of stroke	2 (2.94)	0 (0)	2 (3.45)	>0.99
Family history of CVD	22 (32.84)	5 (50.00)	17 (29.82)	0.28
Cardiac medication at inclusion				
Antihypertensive Medication	11 (16.42)	0 (0)	11 (19.30)	0.19
Antiarrhythmics	1 (1.49)	0 (0)	1 (1.75)	>0.99
ASS	6 (8.96)	0 (0)	6 (10.53)	0.58
Diuretics	6 (8.96)	0 (0)	6 (10.53)	0.58
Obstetric and fetal outcomes				
Gestational age at delivery (weeks)	39.00 (37.00, 40.00)	39.50 (39.00, 40.58)	39.00 (36.00, 40.00)	0.04
Offspring birth weight (g)	3210.00 (2753.33, 3608.33)	3420.00 (3151.25, 3703.75)	3150.00 (2646.67, 3548.33)	0.055
Mode of delivery				
Vaginal	24 (41.38)	6 (75.00)	18 (36.00)	0.055
Caesarian section	34 (58.62)	2 (25.00)	32 (64.00)	0.11

Baseline characteristics of the participants were described with median values for continuous variables (25th, 75th percentile) and proportions for categorical variables.

Table S5 Echocardiographic parameters across time points except preeclampsia

Echocardiographic parameters	Preconception (N=59)	Trimester 1/2 (N=59)	Trimester 3/Peripartum (N=59)	6/12 months postpartum (N=59)	P value		
					Preconception vs. Trimester 1/2	Preconception vs. Trimester 3/Peripartum	Preconception vs. 6/12 months postpartum
LVEF							
>52%	31 (79.49)	30 (78.95)	41 (74.55)	39 (78.00)	<0.001	0.02	0.003
41-52%	6 (15.38)	7 (18.42)	11 (20.00)	7 (14.00)	<0.001	<0.001	<0.001
30-40%	0 (0)	1 (2.63)	1 (1.82)	3 (6.00)	<0.001	<0.001	<0.001
<30%	2 (5.13)	0 (0)	2 (3.64)	1 (2.00)	<0.001	<0.001	<0.001
MV_E (cm/s)	98.00 (80.00, 112.00)	103.00 (85.00, 121.33)	96.00 (77.42, 110.00)	86.00 (70.17, 100.33)	0.16	0.29	0.16
MV_A (cm/s)	57.00 (44.67, 64.67)	66.50 (51.92, 78.00)	65.00 (54.00, 78.83)	61.00 (45.17, 78.00)	0.02	0.14	0.87
MV_E' (cm/s)	13.00 (11.00, 15.67)	13.25 (11.00, 16.00)	11.50 (8.96, 13.04)	11.00 (9.50, 14.42)	0.16	0.25	0.29
E/e'	6.96 (5.80, 8.28)	7.81 (6.00, 10.13)	7.64 (6.36, 10.91)	7.00 (5.54, 9.88)	0.19	0.95	0.97
E/A	1.73 (1.32, 1.91)	1.43 (1.24, 1.75)	1.47 (1.15, 1.76)	1.40 (1.00, 1.90)	0.045	0.009	0.30
IVSd (mm)	8.50 (8.00, 9.71)	9.10 (8.02, 11.10)	10.00 (8.73, 11.57)	9.00 (8.20, 10.10)	0.19	0.009	0.39
LVDd (mm)	45.00 (41.16, 49.04)	45.90 (42.50, 52.50)	46.30 (41.53, 51.00)	46.50 (42.00, 51.57)	0.14	0.83	0.25
PWDd (mm)	8.95 (8.20, 9.53)	9.40 (8.30, 10.97)	9.40 (8.67, 11.20)	8.70 (7.47, 10.03)	0.53	0.21	0.54
IVSs (mm)	13.00 (11.97, 15.17)	14.15 (12.90, 15.12)	14.40 (13.35, 16.25)	14.10 (12.63, 15.38)	0.19	0.12	0.29
LVDs (mm)	29.00 (26.73, 34.13)	31.25 (25.97, 35.50)	30.30 (27.22, 34.57)	30.70 (27.13, 33.85)	0.18	0.52	0.83
PWDs (mm)	13.40 (12.10, 14.83)	14.80 (12.89, 15.23)	14.75 (13.79, 16.33)	14.40 (12.88, 15.71)	0.14	0.02	0.17
TAPSE (mm)	22.00 (19.42, 24.00)	24.00 (19.00, 25.00)	21.85 (18.92, 24.08)	21.05 (18.42, 26.00)	0.33	0.19	0.12
Strain 2d LV (%)	-20.90 (-23.82, -18.88)	-21.34 (-23.49, -18.57)	-19.80 (-22.53, -16.87)	-21.35 (-22.62, -17.78)	0.54	0.25	0.22
Strain 2d LA (%)	31.40 (15.71, 38.57)	31.90 (25.20, 37.80)	32.45 (25.84, 38.06)	37.65 (29.52, 43.21)	0.26	0.09	0.02
Strain 2d RV (%)	-23.60 (-27.14, -18.18)	-21.65 (-25.83, -20.04)	-22.70 (-24.98, -18.23)	-22.85 (-27.51, -20.19)	0.39	0.18	0.20

Echocardiographic parameters were described with median values for continuous variables (25th, 75th percentile) and proportions for categorical variables.

Table S6 Echocardiographic parameters across time points except cardiomyopathy

Echocardiographic parameters	Preconception (N=61)	Trimester 1/2 (N=61)	Trimester 3/Peripartum (N=61)	6/12 months postpartum (N=61)	P value		
					Preconception vs. Trimester 1/2 P-value	Preconception vs. Trimester 3/Peripartum	Preconception vs. 6/12 months postpartum
LVEF							
>52%	31 (81.58)	31 (83.78)	41 (74.55)	39 (76.47)	<0.001	0.02	0.006
41-52%	6 (15.79)	5 (13.51)	10 (18.18)	8 (15.69)	<0.001	<0.001	<0.001
30-40%	0 (0)	1 (2.70)	1 (1.82)	3 (5.88)	<0.001	<0.001	<0.001
<30%	1 (2.63)	0 (0)	3 (5.45)	1 (1.96)	<0.001	<0.001	<0.001
MV_E (cm/s)	98.00 (83.67, 114.00)	104.50 (90.92, 122.08)	97.00 (78.83, 110.00)	86.50 (70.42, 106.83)	0.16	0.21	0.09
MV_A (cm/s)	58.00 (46.25, 67.17)	67.00 (53.33, 78.67)	67.00 (54.00, 78.83)	61.50 (45.42, 81.50)	0.03	0.20	0.88
MV_E' (cm/s)	13.50 (11.67, 15.67)	13.00 (11.00, 16.00)	11.50 (8.50, 13.00)	11.00 (9.50, 14.29)	0.25	0.08	0.20
E/e'	7.00 (5.79, 8.31)	8.27 (6.07, 10.97)	8.15 (6.36, 11.15)	7.00 (5.59, 9.91)	0.39	0.68	>0.99
E/A	1.74 (1.39, 1.91)	1.45 (1.25, 1.82)	1.47 (1.15, 1.76)	1.39 (1.01, 1.86)	0.09	0.01	0.27
IVSd (mm)	8.50 (8.00, 9.63)	9.10 (8.00, 11.31)	10.00 (8.73, 11.57)	9.00 (8.29, 10.10)	0.30	0.004	0.44
LVDd (mm)	44.80 (40.57, 49.00)	45.85 (42.37, 52.10)	46.30 (41.53, 51.00)	46.40 (42.00, 51.90)	0.12	0.91	0.20
PWDd (mm)	8.90 (8.33, 9.30)	9.55 (8.28, 11.21)	9.20 (8.57, 11.20)	8.75 (7.49, 10.01)	0.70	0.21	0.46
IVSs (mm)	13.35 (12.04, 15.22)	14.20 (13.03, 15.50)	14.40 (12.93, 16.25)	14.05 (12.19, 15.36)	0.37	0.37	0.53
LVDs (mm)	28.65 (25.78, 33.17)	30.80 (25.87, 34.97)	30.30 (27.22, 34.57)	30.80 (27.18, 34.02)	0.16	0.43	0.61
PWDs (mm)	13.55 (12.40, 14.86)	14.90 (12.97, 15.67)	14.75 (13.68, 16.33)	14.40 (12.52, 15.65)	0.28	0.048	0.32
TAPSE (mm)	22.00 (20.05, 24.00)	24.00 (19.42, 25.58)	21.00 (18.00, 24.33)	21.00 (18.67, 26.00)	0.41	0.06	0.07
Strain 2d LV (%)	-21.60 (-24.03, -18.99)	-21.90 (-23.90, -19.13)	-19.90 (-22.53, -16.87)	-21.50 (-22.85, -17.90)	0.72	0.11	0.23
Strain 2d LA (%)	32.10 (18.83, 40.48)	32.20 (24.98, 37.88)	32.50 (25.73, 38.03)	38.30 (29.68, 43.28)	0.20	0.25	0.005
Strain 2d RV (%)	-24.00 (-28.70, -19.47)	-21.60 (-25.93, -19.83)	-21.50 (-24.98, -17.43)	-23.00 (-27.58, -20.12)	0.31	0.04	0.43

Echocardiographic parameters were described with median values for continuous variables (25th, 75th percentile) and proportions for categorical variables.

Table S7 Echocardiographic parameters across time points except arrhythmia

Echocardiographic parameters	Preconception (N=61)	Trimester 1/2 (N=61)	Trimester 3/Peripartum (N=61)	6/12 months postpartum (N=61)	P value		
					Preconception vs. Trimester 1/2	Preconception vs. Trimester 3/Peripartum	Preconception vs. 6/12 months postpartum
LVEF							
>52%	29 (78.38)	29 (78.38)	38 (71.70)	37 (77.08)	0.001	0.05	0.007
41-52%	6 (16.22)	7 (18.92)	11 (20.75)	7 (14.58)	<0.001	<0.001	<0.001
30-40%	0 (0)	1 (2.70)	1 (1.89)	3 (6.25)	<0.001	<0.001	<0.001
<30%	2 (5.41)	0 (0)	3 (5.66)	1 (2.08)	<0.001	<0.001	<0.001
MV_E (cm/s)	98.00 (82.67, 113.50)	103.50 (89.50, 118.33)	99.50 (78.00, 110.42)	87.00 (74.33, 111.00)	0.12	0.45	0.28
MV_A (cm/s)	57.00 (44.17, 65.67)	69.00 (53.33, 78.67)	67.00 (54.00, 81.33)	62.00 (45.67, 84.00)	0.01	0.03	0.42
MV_E' (cm/s)	13.25 (11.00, 15.79)	13.00 (10.83, 16.00)	11.25 (8.50, 13.00)	11.00 (9.50, 14.50)	0.13	0.25	0.22
E/e'	7.07 (5.99, 8.88)	8.00 (5.84, 10.97)	8.15 (6.38, 11.49)	7.09 (5.82, 10.06)	0.22	0.82	0.80
E/A	1.75 (1.43, 1.91)	1.42 (1.23, 1.69)	1.47 (1.13, 1.75)	1.51 (0.99, 1.99)	0.04	0.008	0.20
IVSd (mm)	8.70 (8.00, 9.72)	9.25 (8.09, 11.31)	10.00 (8.65, 11.67)	9.00 (8.23, 10.08)	0.09	0.03	0.86
LVDd (mm)	44.90 (40.91, 49.00)	45.90 (42.37, 52.05)	46.30 (41.87, 50.92)	46.60 (42.02, 51.82)	0.16	0.78	0.12
PWDd (mm)	8.95 (8.28, 9.73)	9.75 (8.39, 11.21)	9.40 (8.50, 11.35)	8.90 (7.67, 10.08)	0.37	0.46	0.52
IVSs (mm)	13.00 (11.92, 14.97)	14.30 (13.03, 15.50)	14.40 (13.03, 16.37)	14.00 (12.60, 15.43)	0.09	0.21	0.60
LVDs (mm)	29.00 (26.63, 33.67)	30.80 (25.87, 34.97)	30.30 (27.43, 34.80)	30.90 (27.83, 33.97)	0.22	0.23	0.35
PWDs (mm)	13.30 (12.10, 14.70)	15.00 (12.97, 15.67)	14.70 (13.74, 16.48)	14.25 (12.73, 15.76)	0.055	0.02	0.35
TAPSE (mm)	22.00 (18.92, 24.00)	24.00 (19.00, 25.58)	21.00 (18.00, 24.00)	21.00 (18.00, 26.00)	0.39	0.19	0.04
Strain 2d LV (%)	-21.50 (-23.92, -18.73)	-21.90 (-23.90, -18.73)	-19.30 (-21.35, -16.72)	-20.40 (-22.56, -17.60)	0.44	0.18	0.17
Strain 2d LA (%)	30.60 (15.45, 39.14)	31.40 (23.67, 37.28)	32.35 (25.48, 38.00)	37.00 (28.53, 43.20)	0.19	0.09	0.008
Strain 2d RV (%)	-23.35 (-27.99, -18.08)	-21.50 (-25.93, -19.83)	-21.50 (-24.93, -17.23)	-22.70 (-27.53, -20.00)	0.58	0.22	0.32

Echocardiographic parameters were described with median values for continuous variables (25th, 75th percentile) and proportions for categorical variables.

Table S8 Biomarkers across time points except preeclampsia

Biomarkers	Preconception (N=61)	Trimester 1/2 (N=61)	Trimester 3/Peripartum (N=61)	6/12 months follow up (N=61)	P value		
					Preconception vs. Trimester 1/2	Preconception vs. Trimester 3/Peripartum	Preconception vs. 6/12 months follow up
NT-proBNP (ng/L)	143.00 (92.50, 317.83)	111.50 (68.17, 181.42)	85.00 (50.42, 204.17)	121.50 (77.42, 237.33)	0.01	<0.001	0.39
Hs-cTnl (pg/mL)	2.95 (2.82, 3.08)	1.90 (1.90, 4.52)	1.90 (1.90, 6.17)	1.90 (1.90, 3.00)	0.75	1.00	0.71
Creatinine (mg/dL)	0.68 (0.64, 0.81)	0.55 (0.50, 0.60)	0.57 (0.50, 0.63)	0.69 (0.64, 0.77)	<0.001	<0.001	0.91
GFR (mL/min)	113.00 (92.42, 119.00)	119.00 (109.00, 125.83)	112.00 (100.00, 122.83)	106.00 (93.67, 113.00)	0.004	0.66	0.08
Total cholesterol (mg/dL)	138.50 (122.33, 165.08)	203.50 (177.00, 235.50)	229.50 (207.75, 269.08)	168.50 (149.00, 197.00)	0.009	<0.001	0.41
Proadrenomedullin (nmol/L)	0.42 (0.42, 0.42)	0.96 (0.78, 1.08)	1.27 (1.00, 1.41)	0.46 (0.40, 0.55)			

Biomarkers were described with median values for continuous variables (25th, 75th percentile).

Table S9 Biomarkers across time points except cardiomyopathy

Biomarkers	Preconception (N=61)	Trimester 1/2 (N=61)	Trimester 3/Peripartum (N=61)	6/12 months follow up (N=61)	P value		
					Preconception vs. Trimester 1/2	Preconception vs. Trimester 3/Peripartum	Preconception vs. 6/12 months follow up
NT-proBNP (ng/L)	141.00 (84.50, 309.00)	128.00 (72.33, 235.67)	99.00 (43.75, 206.33)	121.00 (77.67, 236.33)	0.02	<0.001	0.49
Hs-cTnl (pg/mL)	2.90 (1.90, 3.00)	1.90 (1.90, 4.75)	1.90 (1.90, 6.83)	1.90 (1.90, 3.00)	0.89	0.67	0.71
Creatinine (mg/dL)	0.87 (0.87, 0.87)	0.83 (0.70, 1.00)	0.87 (0.81, 1.09)	0.84 (0.78, 0.90)			
GFR (mL/min)	114.50 (92.42, 120.75)	118.00 (108.17, 125.00)	109.00 (96.67, 122.00)	106.00 (93.92, 113.08)	0.006	0.76	0.051
Total cholesterol (mg/dL)	140.00 (124.83, 165.83)	203.00 (177.00, 224.50)	241.00 (208.50, 268.83)	172.00 (149.00, 198.17)	0.009	<.0001	0.29
Proadrenomedullin (nmol/L)	0.42 (0.42, 0.42)	0.94 (0.78, 1.06)	1.25 (0.99, 1.39)	0.46 (0.40, 0.55)			

Biomarkers were described with median values for continuous variables (25th, 75th percentile).

Table S10 Biomarkers across time points except arrhythmia

Biomarkers	Preconception (N=61)	Trimester 1/2 (N=61)	Trimester 3/Peripartum (N=61)	6/12 months follow up (N=61)	P value		
					Preconception vs. Trimester 1/2	Preconception vs. Trimester 3/Peripartum	Preconception vs. 6/12 months follow up
NT-proBNP (ng/L)	142.00 (86.75, 317.58)	125.00 (78.17, 223.17)	73.00 (46.92, 205.17)	119.50 (76.67, 235.33)	0.01	<0.001	0.49
Hs-cTnl (pg/mL)	2.90 (2.07, 3.00)	1.90 (1.90, 4.75)	1.90 (1.90, 6.58)	1.90 (1.90, 3.00)	0.75	1.00	0.71
Creatinine (mg/dL)	0.68 (0.63, 0.81)	0.55 (0.50, 0.60)	0.57 (0.50, 0.63)	0.70 (0.63, 0.79)	<0.001	<0.001	0.46
GFR (mL/min)	0.87 (0.87, 0.87)	0.83 (0.70, 1.00)	0.87 (0.81, 1.08)	0.85 (0.79, 0.90)			
Total cholesterol (mg/dL)	140.00 (124.83, 165.83)	202.00 (172.92, 223.75)	229.50 (206.25, 268.58)	174.00 (151.00, 197.67)	0.009	<0.001	0.29
Proadrenomedullin (nmol/L)	0.42 (0.42, 0.42)	0.98 (0.78, 1.08)	1.24 (0.97, 1.42)	0.46 (0.40, 0.52)			

Biomarkers were described with median values for continuous variables (25th, 75th percentile).

Table S11 Echocardiographic parameters across time points in the Control group

Echocardiographic parameters	Preconception (N=61)	Trimester 1/2 (N=61)	Trimester 3/Peripartum (N=61)	6/12 months postpartum (N=61)
LVEF				
>52%	3 (100)	7 (100)	8 (100)	10 (100)
41-52%	0 (0)	0 (0)	0 (0)	0 (0)
30-40%	0 (0)	0 (0)	0 (0)	0 (0)
<30%	0 (0)	0 (0)	0 (0)	0 (0)
MV_E (cm/s)	84.00 (79.83, 109.00)	87.00 (82.33, 95.33)	89.50 (74.67, 95.17)	87.50 (77.00, 100.25)
MV_A (cm/s)	68.00 (58.83, 76.33)	61.00 (42.42, 70.08)	58.50 (49.42, 65.92)	60.00 (48.75, 67.00)
MV_E' (cm/s)	14.50 (13.67, 18.25)	14.50 (13.58, 15.42)	11.50 (11.08, 13.92)	16.00 (11.42, 16.50)
E/e'	6.00 (5.39, 6.00)	5.60 (4.20, 6.77)	7.46 (6.42, 8.28)	6.24 (5.94, 7.02)
E/A	1.39 (1.26, 1.45)	2.06 (1.23, 3.08)	1.38 (1.21, 1.87)	1.52 (1.31, 1.94)
IVSd (mm)	7.00 (6.08, 7.83)	8.00 (6.67, 8.83)	9.05 (8.43, 9.88)	8.00 (7.00, 9.40)
LVDd (mm)	46.00 (44.17, 46.00)	43.60 (40.32, 49.48)	46.40 (42.35, 50.00)	45.25 (43.93, 48.43)
PWDd (mm)	7.00 (6.33, 7.83)	7.70 (7.05, 9.00)	9.05 (8.78, 9.36)	8.00 (7.58, 9.01)
IVSs (mm)	11.00 (9.83, 12.25)	12.20 (10.33, 12.67)	12.20 (11.70, 13.63)	12.30 (10.89, 13.47)
LVDs (mm)	31.80 (31.80, 31.80)	29.00 (28.00, 32.53)	30.10 (26.12, 34.83)	30.65 (27.50, 33.29)
PWDs (mm)	11.20 (10.37, 11.87)	12.20 (10.23, 13.67)	12.90 (12.63, 14.20)	13.30 (10.77, 13.48)
TAPSE (mm)	22.00 (20.33, 22.83)	26.00 (21.00, 27.67)	25.00 (21.67, 28.17)	23.00 (19.92, 24.25)
≥ moderate valve disease No. (%)	0 (0)	0 (0)	0 (0)	0 (0)
Strain 2d LV (%)	-18.80 (-20.72, -18.38)	-20.25 (-24.59, -19.23)	-21.35 (-23.53, -19.94)	-22.75 (-25.63, -19.30)
Strain 2d LA (%)	37.40 (24.57, 41.40)	39.10 (31.02, 53.10)	32.50 (19.95, 40.32)	38.40 (31.62, 41.43)
Strain 2d RV (%)	-19.80 (-29.47, -18.30)	-23.65 (-27.55, -18.93)	-23.65 (-27.55, -18.93)	-23.60 (-27.30, -22.59)

Echocardiographic parameters were described with median values for continuous variables (25th, 75th percentile) and proportions for categorical variables.

Table S12 Biomarkers across time points in the Control group

Biomarkers	Preconception (N=10)	Trimester 1/2 (N=10)	Trimester 3/Peripartum (N=10)	6/12 months follow up (N=10)
NT-proBNP (ng/L)	NA	68.00 (34.90, 121.83)	34.90 (34.90, 59.00)	76.50 (35.91, 95.67)
Hs-cTnl (pg/mL)	1.90 (1.90, 1.90)	1.90 (1.90, 1.90)	1.90 (1.90, 1.90)	1.90 (1.90, 1.90)
Creatinine (mg/dL)	0.68 (0.66, 0.72)	0.57 (0.54, 0.58)	0.62 (0.54, 0.68)	0.74 (0.71, 0.78)
GFR (mL/min)	116.00 (109.33, 121.83)	123.00 (116.67, 124.00)	113.00 (92.83, 126.17)	106.50 (103.58, 116.58)
Total cholesterol (mg/dL)	164.00 (134.00, 183.17)	251.00 (206.83, 264.33)	252.00 (202.17, 270.50)	176.50 (156.33, 181.67)
Proadrenomedullin (nmol/L)	0.38 (0.38, 0.38)	0.93 (0.70, 1.04)	1.17 (1.08, 1.32)	0.41 (0.37, 0.49)

Biomarkers were described with median values for continuous variables (25th, 75th percentile).