

SUPPLEMENTARY DATA

Supplementary Table 1. Adjusted odds ratios (OR) and 95% confidence intervals (CI) for the presence of adverse left ventricular structural outcomes and subclinical systolic and diastolic dysfunction according to the duration of diabetes during follow-up, The CARDIA Study.

	Duration of diabetes (years)					<i>p</i> -trend	Per each additional 5 years
	0	1-5	6-10	11-15	>15		
<u>Structural outcomes</u>							
Left ventricular hypertrophy*							
No. of cases	595	51	56	17	27		
Prevalence (%)	24.1	44.4	41.8	36.2	48.2		
OR (95% CI) [†]	1 [Ref]	1.22 (0.78, 1.90)	0.93 (0.60, 1.43)	0.55 (0.28, 1.07)	1.27 (0.69, 2.33)	.86	0.99 (0.88, 1.11)
Concentric remodeling [‡]							
No. of cases	343	25	33	10	9		
Prevalence (%)	13.9	21.7	24.6	21.7	16.1		
OR (95% CI) [†]	1 [Ref]	1.12 (0.69, 1.82)	1.36 (0.87, 2.12)	1.01 (0.48, 2.12)	0.77 (0.36, 1.63)	.82	1.01 (0.90, 1.12)
<u>Systolic dysfunction</u>							
Ejection fraction <55%							
No. of cases	69	4	9	5	4		
Prevalence (%)	2.8	3.5	6.7	10.6	7.1		
OR (95% CI) [†]	1 [Ref]	1.25 (0.43, 3.66)	2.64 (1.20, 5.78)	3.92 (1.39, 11.08)	2.23 (0.74, 6.78)	.01	1.30 (1.07, 1.59)
Longitudinal strain >90 th percentile (-12.3%)							
No. of cases	240	23	34	11	11		
Prevalence (%)	9.9	20.2	26.4	24.4	22.5		
OR (95% CI) [†]	1 [Ref]	1.32 (0.79, 2.20)	1.90 (1.19, 3.03)	1.47 (0.70, 3.10)	1.70 (0.83, 3.50)	.005	1.20 (1.06, 1.36)
<u>Diastolic dysfunction</u>							
Impaired relaxation [§]							
No. of cases	586	62	55	17	23		
Prevalence (%)	21.8	46.3	36.0	31.5	38.3		
OR (95% CI) [†]	1 [Ref]	1.87 (1.28, 2.73)	1.30 (0.88, 1.91)	1.01 (0.55, 1.88)	1.58 (0.89, 2.81)	.02	1.13 (1.02, 1.26)
Increased filling pressure							
No. of cases	226	34	37	7	14		
Prevalence (%)	8.5	26.0	24.2	13.2	23.7		
OR (95% CI) [†]	1 [Ref]	2.10 (1.32, 3.35)	1.90 (1.20, 3.01)	0.62 (0.26, 1.49)	1.66 (0.83, 3.33)	.02	1.16 (1.02, 1.31)

*Left ventricular mass >224 g for men and >162 g for women. [†]Adjusts for model 2 variables listed in the footnote of Table 3. [‡]Relative wall thickness >0.42. [§]*e'* <10 cm/s. ^{||}*E/e'* ≥12 alone or *E/e'* 8-12 and left atrial volume index ≥ 34 ml/m

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Supplementary Table 2. Adjusted odds ratios (OR) and 95% confidence intervals (CI) for the presence of adverse left ventricular structural outcomes and subclinical systolic and diastolic dysfunction according to the duration of prediabetes during follow-up, The CARDIA Study.

	Duration of prediabetes (years)					<i>p</i> -trend	Per each additional 5 years
	0	1-5	6-10	11-15	>15		
<u>Structural outcomes</u>							
Left ventricular hypertrophy*							
No. of cases	297	148	181	69	51		
Prevalence (%)	23.3	23.9	34.4	30.9	29.1		
OR (95% CI) [†]	1 [Ref]	0.83 (0.64, 1.08)	1.30 (1.01, 1.69)	1.07 (0.74, 1.53)	1.07 (0.71, 1.60)	.15	1.06 (0.98, 1.15)
Concentric remodeling [‡]							
No. of cases	164	98	91	41	26		
Prevalence (%)	12.9	15.8	17.3	18.5	14.9		
OR (95% CI) [†]	1 [Ref]	1.07 (0.80, 1.43)	1.10 (0.82, 1.49)	1.12 (0.75, 1.68)	0.93 (0.58, 1.49)	.62	1.02 (0.93, 1.12)
<u>Systolic dysfunction</u>							
Ejection fraction <55%							
No. of cases	42	15	15	9	10		
Prevalence (%)	3.3	2.4	2.9	4.0	5.7		
OR (95% CI) [†]	1 [Ref]	0.64 (0.34, 1.20)	0.75 (0.40, 1.40)	1.01 (0.46, 2.21)	1.56 (0.73, 3.34)	.71	1.03 (0.87, 1.24)
Longitudinal strain >90 th percentile (-12.3%)							
No. of cases	107	74	78	32	28		
Prevalence (%)	8.7	12.1	15.0	14.0	16.2		
OR (95% CI) [†]	1 [Ref]	1.28 (0.92, 1.80)	1.47 (1.05, 2.06)	1.19 (0.75, 1.87)	1.57 (0.97, 2.54)	.02	1.12 (1.02, 1.24)
<u>Diastolic dysfunction</u>							
Impaired relaxation [§]							
No. of cases	257	190	172	64	60		
Prevalence (%)	18.9	27.7	29.4	25.0	29.6		
OR (95% CI) [†]	1 [Ref]	1.38 (1.09, 1.74)	1.34 (1.05, 1.72)	1.12 (0.80, 1.58)	1.46 (1.02, 2.10)	.006	1.11 (1.03, 1.19)
Increased filling pressure							
No. of cases	104	75	85	26	28		
Prevalence (%)	7.7	11.0	14.6	10.3	13.9		
OR (95% CI) [†]	1 [Ref]	1.17 (1.82, 1.65)	1.31 (0.93, 1.85)	0.89 (0.54, 1.48)	1.33 (0.81, 2.20)	.13	1.08 (0.98, 1.20)

*Left ventricular mass >224 g for men and >162 g for women. [†]Adjusts for model 2 variables listed in the footnote of Table 4. [‡]Relative wall thickness >0.42. [§]*e'* <10 cm/s. ^{||}*E/e'* ≥12 alone or *E/e'* 8-12 and left atrial volume index ≥ 34 ml/m.