

Supplementary Figure 1: Flowchart of participants from NHANES. Because US-FLI used FPG, only a fasting subsample was used. FPG: Fasting plasma glucose; MAFLD: Metabolic associated fatty liver disease; NAFLD: Nonalcoholic fatty liver disease; NHANES: National Health and Nutrition Examination Survey; US-FLI: Ultrasound-fatty liver index.

Supplementary Table 1: Potential risk factors associated with MAFLD.

Risk factors	MAFLD, OR (95% CI)	P-value
Male sex	2.65 (2.34, 3.02)	<0.001
Age per 10 years	1.09 (1.05, 1.13)	< 0.001
White vs. Mexican American	0.34 (0.29, 0.40)	< 0.001
Black vs. Mexican American	0.16 (0.14, 0.19)	< 0.001
Completed high-school education or above	0.96 (0.82, 1.11)	0.554
At or below poverty line	1.13 (0.99, 1.28)	0.068
Current smoking	0.90 (0.78, 1.04)	0.146
Central obesity	12.96 (11.40,14.73)	< 0.001
Diabetes	3.23 (2.82, 3.70)	< 0.001
Systolic BP per 10 mmHg	1.14 (1.10, 1.17)	< 0.001
LDL per 20 mg/dL	0.99 (0.96, 1.02)	0.529
High-density lipoprotein per 10 mg/dL	0.74 (0.70, 0.78)	< 0.001
Triglycerides per 100 mg/dL	1.85 (1.69, 2.02)	< 0.001

Multivariate logistic regression analyses were used. Central obesity was defined by waist circumference ≥102 cm in men or waist circumference ≥88 cm in women. SI conversion factors: To convert total, LDL, and high-density lipoprotein cholesterol to mmol/L, multiply by 0.0259; triglycerides to mmol/L, multiply by 0.0113. BP: Blood pressure; CI: Confidence interval; LDL: Low-density lipoprotein; MAFLD: Metabolic associated fatty liver disease; OR: Odds ratio.

Supplementary Table 2: Mean BP, lipid, glycemic, and weight levels in US adults aged 20 years and older by MAFLD and NAFLD status, 1999–2016.

Itams	1999–2002	2003–2006	2007–2010	2011–2016	Total	D	$P_{ m interactio}$	P*	β (95% CI)**
Items	(n = 3954)	(n = 3789)	(n = 5003)	(n = 6871)	Total	P_{trend}	n	P*	p (95% C1)***
Systolic BP (mmHg)								
Whole population									
MAFLD	128.0 (127.0, 129.1)	126.4 (125.4, 127.4)	123.7 (122.9, 124.6)	126.8 (125.9, 127.7)	126.2 (125.7,126.7)	0.026	0.108	0.003	4.81 (4.27, 5.35)
NAFLD	127.8 (126.6, 128.9)	126.1 (125.0, 127.2)	123.5 (122.6, 124.4)	126.4 (125.5, 127.3)	125.9 (125.4, 126.4)	0.021	0.313		4.17 (3.54, 4.80)
Non-MAFLD	120.7 (119.7, 121.8)	119.4 (118.4, 120.3)	117.0 (116.0, 118.1)	118.7 (118.1, 119.4)	118.9 (118.5, 119.4)	< 0.001			
Non-NAFLD	121.0 (120.0, 122.0)	119.7 (118.7, 120.6)	117.4 (116.3, 118.4)	119.3 (118.5, 120.0)	119.3 (118.9, 119.8)	< 0.001			
Individuals with hy	pertension								
MAFLD	137.2 (135.5, 138.8)	134.5 (133.0, 136.1)	130.7 (129.6, 131.8)	134.2 (132.8, 135.6)	134.0 (133.2, 134.7)	0.001	< 0.001	0.225	-2.25 (-3.36, -1.15)
NAFLD	137.0 (135.3, 138.7)	134.6 (132.9, 136.3)	130.5 (129.4, 131.8)	133.8 (132.3, 135.3)	133.8 (133.0, 134.6)	0.001	0.004		-2.81 (-4.13, -1.50)
Non-MAFLD	143.7 (142.1, 145.2)	139.4 (137.5, 141.2)	133.7 (131.7, 135.7)	134.7 (132.7, 136.7)	137.5 (136.4, 138.5)	< 0.001			
Non-NAFLD	143.5 (141.7, 145.2)	139.0 (137.3, 140.8)	133.7 (131.7, 135.7)	135.0 (132.8, 137.3)	137.4 (136.3, 138.5)	< 0.001			
LDL cholesterol (m	g/dL)								
Whole population									
MAFLD	127.0 (123.6, 130.5)	117.1 (114.3, 120.0)	118.9 (116.3, 121.6)	115.6 (113.5, 117.7)	118.6 (117.3, 120.0)	0.026	0.108	0.473	2.01 (0.61, 3.40)
NAFLD	126.6 (123.3, 130.0)	117.5 (114.7, 120.2)	118.6 (115.9, 121.3)	115.4 (113.3, 117.5)	118.5 (117.2, 119.8)	< 0.001	0.894		1.65 (0.24, 3.07)
Non-MAFLD	121.6 (119.8, 123.4)	116.0 (114.2, 117.8)	114.8 (113.2, 116.3)	111.9 (110.7, 113.1)	115.6 (114.8, 116.3)	< 0.001			
Non-NAFLD	121.9 (120.0, 123.8)	115.9 (114.1, 117.7)	115.0 (113.4, 116.6)	112.2 (110.9, 113.4)	115.7 (114.9, 116.5)	< 0.001			
Individuals with dy	slipidemia								
MAFLD	145.2 (140.9, 149.5)	132.8 (128.4, 137.3)	132.8 (129.6, 136.1)	127.3 (124.2, 130.3)	132.7 (130.9, 134.6)	< 0.001	0.688	0.044	-6.72 (-8.85, -4.59)
NAFLD	145.2 (140.9, 149.4)	132.6 (128.1, 137.0)	132.1 (128.7, 135.5)	126.7 (123.6, 129.8)	132.2 (130.4, 134.1)	< 0.001	0.483		-7.24 (-9.38, -5.09)
Non-MAFLD	151.3 (148.8, 153.8)	144.0 (141.4, 146.6)	142.0 (138.9, 145.1)	136.0 (134.1, 137.9)	142.5 (141.3, 143.8)	< 0.001			

1.1 (148.7, 153.5)	143.9 (141.4, 146.4)	142.1 (139.0, 145.3)	136.0 (134.0, 137.9)	142.4 (141.2, 143.7)	< 0.001			
8.0 (114.9, 121.0)	114.5 (112.1, 116.8)	116.0 (114.0, 117.9)	118.8 (116.7, 120.9)	117.1 (115.9, 118.3)	0.422	0.118	0.694	17.56 (16.38, 18.74)
7.5 (114.5, 120.5)	114.6 (111.9, 117.3)	115.8 (113.9, 117.8)	119.2 (116.8, 121.5)	117.2 (115.9, 118.4)	0.226	0.059		16.96 (15.67, 18.24)
.3 (96.4, 98.2)	97.6 (96.5, 98.6)	97.3 (96.5, 98.1)	96.9 (96.3, 97.5)	97.2 (96.8, 97.7)	0.041			
.0 (97.2, 98.9)	97.9 (97.0, 98.9)	98.0 (97.1, 98.9)	97.6 (97.0, 98.3)	97.9 (97.5, 98.3)	0.041			
S								
5.5 (157.2, 173.8)	155.9 (147.1, 164.7)	155.4 (148.3, 162.5)	163.7 (158.2, 169.2)	160.7 (157.1, 164.3)	0.771	0.217	0.690	20.18 (14.36, 26.00)
3.6 (155.1, 172.2)	155.6 (146.1, 165.1)	154.2 (147.2, 161.3)	165.0 (158.7, 171.3)	160.5 (156.7, 164.4)	0.405	0.057		17.19 (11.32, 23.06)
8.0 (131.9, 164.0)	142.1 (130.1, 154.0)	138.0 (129.1, 146.8)	137.6 (131.4, 143.8)	140.3 (135.4, 145.2)	0.148			
4.6 (140.5, 168.9)	143.6 (132.4, 154.8)	142.0 (132.9, 151.2)	139.4 (133.9, 144.8)	143.3 (138.8, 147.8)	0.049			
n (%)								
(5.8, 6.0)	5.8 (5.7, 5.8)	5.9 (5.8, 6.0)	6.0 (6.0, 6.1)	5.9 (5.9, 6.0)	0.009	0.697	0.022	0.48 (0.44, 0.52)
(5.8, 6.0)	5.8 (5.7, 5.9)	5.9 (5.8, 6.0)	6.1 (6.0, 6.1)	5.9 (5.9, 6.0)	0.005	0.525		0.48 (0.44, 0.52)
3 (5.2, 5.3)	5.3 (5.3, 5.4)	5.4 (5.4, 5.5)	5.4 (5.4, 5.5)	5.4 (5.4, 5.4)	< 0.001			
3 (5.2, 5.3)	5.3 (5.3, 5.4)	5.4 (5.4, 5.5)	5.5 (5.4, 5.5)	5.4 (5.4, 5.4)	< 0.001			
S								
(7.1, 7.7)	7.0 (6.8, 7.2)	7.1 (6.9, 7.3)	7.5 (7.3, 7.7)	7.3 (7.2, 7.4)	0.130	0.726	0.329	0.36 (0.19, 0. 52)
3 (7.0, 7.6)	7.1 (6.8, 7.3)	7.1 (6.9, 7.2)	7.6 (7.4, 7.8)	7.3 (7.2, 7, 4)	0.054	0.261		0.37 (0.19, 0.55)
(6.5, 7.3)	6.9 (6.6, 7.3)	7.0 (6.7, 7.2)	7.1 (6.9, 7.3)	7.0 (6.9, 7.1)	0.474			
(6.7, 7.4)	6.9 (6.6, 7.2)	7.0 (6.7, 7.3)	7.0 (6.9, 7.2)	7.0 (6.9, 7.1)	0.996			
	3.0 (114.9, 121.0) 7.5 (114.5, 120.5) 3 (96.4, 98.2) 0 (97.2, 98.9) 5.5 (157.2, 173.8) 3.6 (155.1, 172.2) 3.0 (131.9, 164.0) 4.6 (140.5, 168.9) 1 (%) (5.8, 6.0) (5.8, 6.0) (5.2, 5.3) (7.1, 7.7) (7.0, 7.6) (6.5, 7.3)	3.0 (114.9, 121.0) 114.5 (112.1, 116.8) 7.5 (114.5, 120.5) 114.6 (111.9, 117.3) 3 (96.4, 98.2) 97.6 (96.5, 98.6) 0 (97.2, 98.9) 97.9 (97.0, 98.9) 5.5 (157.2, 173.8) 155.9 (147.1, 164.7) 3.6 (155.1, 172.2) 155.6 (146.1, 165.1) 3.0 (131.9, 164.0) 142.1 (130.1, 154.0) 4.6 (140.5, 168.9) 143.6 (132.4, 154.8) 1 (%) (5.8, 6.0) 5.8 (5.7, 5.9) (5.2, 5.3) 5.3 (5.3, 5.4) (5.2, 5.3) 5.3 (5.3, 5.4) (7.1, 7.7) 7.0 (6.8, 7.2) (7.0, 7.6) 7.1 (6.8, 7.3) (6.5, 7.3) 6.9 (6.6, 7.3)	3.0 (114.9, 121.0) 114.5 (112.1, 116.8) 116.0 (114.0, 117.9) 7.5 (114.5, 120.5) 114.6 (111.9, 117.3) 115.8 (113.9, 117.8) 3 (96.4, 98.2) 97.6 (96.5, 98.6) 97.3 (96.5, 98.1) 0 (97.2, 98.9) 97.9 (97.0, 98.9) 98.0 (97.1, 98.9) 5.5 (157.2, 173.8) 155.9 (147.1, 164.7) 155.4 (148.3, 162.5) 3.6 (155.1, 172.2) 155.6 (146.1, 165.1) 154.2 (147.2, 161.3) 3.0 (131.9, 164.0) 142.1 (130.1, 154.0) 138.0 (129.1, 146.8) 4.6 (140.5, 168.9) 143.6 (132.4, 154.8) 142.0 (132.9, 151.2) 1 (%) (5.8, 6.0) 5.8 (5.7, 5.9) 5.9 (5.8, 6.0) (5.2, 5.3) 5.3 (5.3, 5.4) 5.4 (5.4, 5.5) (5.2, 5.3) 5.3 (5.3, 5.4) 5.4 (5.4, 5.5) (7.1, 7.7) 7.0 (6.8, 7.2) 7.1 (6.9, 7.3) (7.0, 7.6) 7.1 (6.8, 7.3) 7.1 (6.9, 7.2) (6.5, 7.3) 6.9 (6.6, 7.3) 7.0 (6.7, 7.2)	3.0 (114.9, 121.0)	3.0 (114.9, 121.0)	8.0 (114.9, 121.0) 114.5 (112.1, 116.8) 116.0 (114.0, 117.9) 118.8 (116.7, 120.9) 117.1 (115.9, 118.3) 0.422 (7.5 (114.5, 120.5) 114.6 (111.9, 117.3) 115.8 (113.9, 117.8) 119.2 (116.8, 121.5) 117.2 (115.9, 118.4) 0.226 (3 (96.4, 98.2) 97.6 (96.5, 98.6) 97.3 (96.5, 98.1) 96.9 (96.3, 97.5) 97.2 (96.8, 97.7) 0.041 (97.2, 98.9) 97.9 (97.0, 98.9) 98.0 (97.1, 98.9) 97.6 (97.0, 98.3) 97.9 (97.5, 98.3) 0.041 (97.2, 173.8) 155.9 (147.1, 164.7) 155.4 (148.3, 162.5) 163.7 (158.2, 169.2) 160.7 (157.1, 164.3) 0.771 (15.5, 1172.2) 155.6 (146.1, 165.1) 154.2 (147.2, 161.3) 165.0 (158.7, 171.3) 160.5 (156.7, 164.4) 0.405 (131.9, 164.0) 142.1 (130.1, 154.0) 138.0 (129.1, 146.8) 137.6 (131.4, 143.8) 140.3 (135.4, 145.2) 0.148 (140.5, 168.9) 143.6 (132.4, 154.8) 142.0 (132.9, 151.2) 139.4 (133.9, 144.8) 143.3 (138.8, 147.8) 0.049 (16.6, 6.0) 5.8 (5.7, 5.9) 5.9 (5.8, 6.0) 6.0 (6.0, 6.1) 5.9 (5.9, 6.0) 0.005 (5.2, 5.3) 5.3 (5.3, 5.4) 5.4 (5.4, 5.5) 5.4 (5.4, 5.5) 5.4 (5.4, 5.4) <0.001 (5.2, 5.3) 5.3 (5.3, 5.4) 5.4 (5.4, 5.5) 5.5 (5.4, 5.5) 5.4 (5.4, 5.4) <0.001 (5.2, 5.3) 5.3 (5.3, 5.4) 5.4 (5.4, 5.5) 7.5 (7.3, 7.7) 7.3 (7.2, 7.4) 0.130 (7.0, 7.6) 7.1 (6.8, 7.3) 7.0 (6.9, 7.2) 7.1 (6.9, 7.2) 7.1 (6.9, 7.3) 7.0 (6.9, 7.1) 0.474	8.0 (114.9, 121.0)	8.0 (114.9, 121.0)

MAFLD	33.1 (32.5, 33.8)	34.1 (33.5, 34.7)	33.4 (33.0, 33.7)	34.5 (34.0, 34.9)	33.9 (33.6, 34.2)	0.001	0.058	< 0.001	8.30 (8.02, 8.58)
NAFLD	33.3 (32.6, 33.9)	34.3 (33.7, 34.9)	33.5 (33.1, 33.9)	34.7 (34.2, 35.1)	34.1 (33.8, 34.3)	< 0.001	0.055		8.18 (7.89, 8.46)
Non-MAFLD	25.8 (25.6, 26.0)	26.2 (26.0, 26.3)	26.0 (25.7, 26.2)	26.2 (26.0, 26.5)	26.1 (25.9, 26.2)	0.103			
Non-NAFLD	26.0 (25.8, 26.2)	26.3 (26.1, 26.5)	26.2 (25.9, 26.4)	26.5 (26.2, 26.7)	26.3 (26.1, 26.4)	0.027			
Individuals with ge	neral obesity								
MAFLD	36.3 (35.6, 37.0)	36.9 (36.3, 37.4)	36.3 (35.9, 36.7)	37.0 (36.5, 37.5)	36.7 (36.4, 37.0)	0.046	0.006	0.001	4.24 (3.92, 4.57)
NAFLD	36.3 (35.6, 37.1)	37.0 (36.5, 37.6)	36.4 (36.0, 36.8)	37.1 (36.7, 37.6)	36.8 (36.5, 37.1)	0.025	0.005		3.94 (3.61, 4.27)
Non-MAFLD	33.8 (33.4, 34.3)	33.9 (33.6, 34.2)	33.6 (33.3, 33.9)	33.2 (32.9, 33.5)	33.5 (33.4, 33.7)	0.028			
Non-NAFLD	34.1 (33.6, 34.5)	33.9 (33.6, 34.2)	33.8 (33.5, 34.2)	33.4 (33.0, 33.7)	33.7 (33.5, 33.9)	0.058			
Waist circumference	e (cm)								
Whole population									
MAFLD	110.6 (109.0, 112.1)	113.5 (112.2, 114.7)	111.4 (110.6, 112.2)	114.1 (113.1, 115.0)	112.7 (112.1, 113.3)	< 0.001	0.210	< 0.001	20.90 (20.29, 21.52)
NAFLD	110.5 (108.9, 112.1)	113.6 (112.4, 114.8)	111.8 (110.8, 112.7)	114.4 (113.5, 115.4)	112.9 (112.4, 113.5)	< 0.001	0.152		20.46 (19.83, 21.09)
Non-MAFLD	89.6 (89.1, 90.2)	91.4 (90.8, 91.9)	91.0 (90.3, 91.7)	91.9 (91.3, 92.6)	91.1 (90.8, 91.4)	< 0.001			
Non-NAFLD	90.2 (89.7, 90.8)	91.9 (91.3, 92.5)	91.5 (90.9, 92.2)	92.7 (92.1, 93.3)	91.7 (91.4, 92.0)	< 0.001			
Individuals with cer	ntral obesity								
MAFLD	113.7 (112.0, 115.4)	116.0 (114.9, 117.1)	114.3 (113.4, 115.2)	116.4 (115.5, 117.3)	115.4 (114.8, 116.0)	0.001	0.024	0.005	13.13 (12.50, 13.75)
NAFLD	113.6 (111.9, 115.4)	116.2 (115.1, 117.4)	114.5 (113.6, 115.5)	116.6 (115.7, 117.5)	115.5 (115.0, 116.1)	0.001	0.029		12.59 (11.96, 13.21)
Non-MAFLD	100.6 (100.0, 101.2)	101.2 (100.6, 101.7)	101.2 (100.5, 101.9)	101.5 (100.9, 102.0)	101.2 (100.9, 101.5)	0.089			
Non-NAFLD	101.5 (100.9, 102.1)	101.8 (101.2, 102.4)	101.8 (101.1, 102.5)	102.4 (101.8, 103.1)	102.0 (101.6, 102.3)	0.043			

Data are from the NHANESs between 1999 and 2016. Data are expressed as mean (95% CI). P_{trend} was calculated for each MAFLD group by including a continuous variable for the midpoint of each survey period in logistic regression models; significant values indicated variation over time within MAFLD groups. BP: Blood pressure; BMI: Body mass index; CI: Confidence interval; LDL: Low-density lipoprotein; MAFLD: Metabolic associated fatty liver disease; NHANESs: National Health and Nutrition Examination Surveys; NAFLD: Nonalcoholic fatty liver disease. *MAFLD vs. NAFLD; ** vs. non-MAFLD or non-NAFLD.

Supplementary Table 3: Cardiovascular and renal markers in MAFLD with and without significant alcohol use.

	MAFLD without	MAFLD with	Adjusted
Variables	significant alcohol use	significant alcohol use	P-value
N	6745	386	
Age (years)	50.88 (0.28)	49.34 (1.00)	
Male	57.1 (0.8)	77.3 (2.7)	
BMI (kg/m^2)	34.05 (0.13)	31.64 (0.32)	< 0.001
Diabetes (%)	25.0 (0.7)	18.9 (2.5)	0.133
Hypertension (%)	48.0 (0.9)	52.2 (3.3)	0.017
Dyslipidemia (%)	56.5 (0.9)	55.4 (3.4)	0.871
General Obesity (%)	70.8 (0.8)	61.1 (2.9)	0.006
Central obesity (%)	87.1 (0.6)	79.4 (2.6)	0.073
10-year risk of cardiovaso	cular events (%)		
Framingham	12.92 (0.22)	17.22 (1.22)	0.017
ASCVD	10.69 (0.22)	11.91 (1.05)	0.155
Previous myocardial	5.7 (0.3)	3.8 (1.2)	0.258
infarction (%)			
Previous stroke (%)	4.1 (0.3)	2.0 (0.9)	0.322
Any CKD (%)	18.9 (0.7)	15.8 (2.7)	0.849
$ACR \ge 30 \text{ mg/g (\%)}$	13.6 (0.6)	13.5 (2.7)	0.668
eGFR <60 mL/min per	7.6 (0.4)	2.6 (0.9)	0.050
1.73 m ² (%)			
Mean eGFR (mL/min	92.56 (0.43)	98.49 (0.95)	< 0.001
per 1.73 m ²)			
Hyperfiltration (%)	1.4 (0.2)	1.3 (0.5)	0.908

Data are from the NHANESs between 1999 and 2016. All analyses were adjusted for age, sex, and race or ethnic group. 10-year cardiovascular risks were calculated using Framingham and ASCVD risk scores. Any CKD refers, urinary ACR ≥30 mg/g, eGFR <60 mL/min per 1.73 m², or both. Hyperfiltration was defined as eGFR ≥135 mL/min per 1.73 m². ACR: Albumin-to-creatinine ratio; ASCVD: Atherosclerotic Cardiovascular Disease guidelines (from the American Heart Association and American College of Cardiology); BMI: Body mass index; CKD: Chronic kidney disease; eGFR: Estimated glomerular filtration rate; MAFLD: Metabolic associated fatty liver disease; NHANESs: National Health and Nutrition Examination Surveys.

Supplementary Table 4: Estimates of 10-year risk of cardiovascular events in US adults of MAFLD or NAFLD without any antihypertensive, anti-diabetic, and lipid-lowering medication, 1999–2016.

Items 1999–2	1999–2002	2003–2006 2007–	2007-2010	2007–2010 2011–2016	Total	P_{trend}	$P_{ m intera}$	P *	β (95% CI)**
	1999 2002	2000 2000	2007 2010				ction	•	ρ (50 / 0 01)
Framingham									
MAFLD	11.6 (10.4, 12.8)	9.3 (8.6, 10.0)	8.8 (8.2, 9.3)	9.2 (8.2, 10.2)	9.6 (9.1, 10.1)	0.006	0.620	0.002	2.6 (2.2, 2.9)
NAFLD	11.1 (9.8, 12.4)	8.9 (8.2, 9.7)	8.5 (8.0, 9.1)	8.7 (8.0, 9.4)	9.2 (8.8, 9.6)	0.003	0.243		2.1 (1.8, 2.5)
ASCVD									
MAFLD	9.7 (8.3, 11.0)	7.7 (6.9, 8.5)	7.0 (6.3, 7.8)	6.8 (5.9, 7.8)	7.6 (7.1, 8.2)	0.001	0.649	0.040	1.9 (1.5, 2.2)
NAFLD	9.3 (7.9, 10.8)	7.5 (6.6, 8.4)	7.0 (6.2, 7.7)	6.5 (5.8, 7.2)	7.4 (6.9, 7.8)	0.000	0.170		1.5 (1.1, 1.8)

Data are from the NHANESs between 1999 and 2016. Data are expressed as percentage (95% CI). All analyses were adjusted for age, sex, and race or ethnic group. 10-year cardiovascular risks were calculated using Framingham and ASCVD risk scores. P_{trend} was calculated for the MAFLD status group by including a continuous variable for the midpoint of each survey period in logistic regression models; significant values indicated variation over time within MAFLD groups. Significant $P_{\text{interaction}}$ values indicate varying associations between prevalence estimates over time across MAFLD groups. ASCVD: Atherosclerotic Cardiovascular Disease guidelines (from the American Heart Association and American College of Cardiology); CI: Confidence interval; MAFLD: Metabolic associated fatty liver disease; NHANESs: National Health and Nutrition Examination Surveys; NAFLD: Nonalcoholic fatty liver disease. *MAFLD vs. NAFLD; **vs. non-MAFLD or non-NAFLD.

Supplementary Table 5: Cardiovascular and renal markers in participants with MAFLD but non-NAFLD and NAFLD.

Items	MAFLD-non NAFLD	NAFLD	P
N	518	6658	
10-year risk of cardiovascular events, %			
Framingham	16.6 (14.6, 18.7)	12.9 (12.4, 13.3)	0.013
ASCVD	11.5 (9.7, 13.2)	10.7 (10.3, 11.1)	0.104
Previous myocardial infarction, %	4.7 (2.8, 7.7)	5.6 (5.0, 6.3)	0.605
Previous stroke, %	3.3 (1.7, 6.2)	4.0 (3.4, 4.7)	0.987
Any CKD, %	17.8 (13.5, 23.0)	18.8 (17.5, 20.2)	0.669
$ACR \ge 30 \text{ mg/g}, \%$	14.3 (10.4, 19.4)	13.6 (12.5, 14.8)	0.499
eGFR $<$ 60 mL/min per 1.73 m 2 , %	3.9 (2.4, 6.3)	7.6 (6.8, 8.4)	0.449
Mean eGFR, mL/min per 1.73 m ²	97.4 (95.6, 99.2)	92.6 (91.7, 93.4)	< 0.001
Hyperfiltration, %	1.1 (0.5, 2.4)	1.4 (1.1, 1.8)	0.967

Data are from the NHANESs between 1999 and 2016. Data are expressed as percentage (95% CI). All analyses were adjusted for age, sex, and race or ethnic group. 10-year cardiovascular risks were calculated using Framingham and ASCVD risk scores. Any CKD refers, urinary ACR \geq 30 mg/g, eGFR <60 mL/min per 1.73 m², or both. Hyperfiltration was defined as eGFR \geq 135 mL/min per 1.73 m². ACR: Albumin-to-creatinine ratio; ASCVD: Atherosclerotic Cardiovascular Disease guidelines (from the American Heart Association and American College of Cardiology); CKD: Chronic kidney disease; CI: Confidence interval; eGFR: Estimated glomerular filtration rate; MAFLD: Metabolic associated fatty liver disease; NHANESs: National Health and Nutrition Examination Surveys; NAFLD: Nonalcoholic fatty liver disease.