

Author	Year	Sample size (n)	NAFLD diagnosis	Patients with NAFLD	Patients with incident CKD	Hazard ratio (HR) (95% CI)	% Weight
NAFLD by liver enzymes							
Shen	2017	21818	Liver enzymes	5536	1456	1.33 (1.07, 1.64)	7.39
Kunutsor	2017	2338	Liver enzymes	553	221	0.97 (0.64, 1.47)	2.54
Subtotal (I-squared = 42.9%, p = 0.186)						1.20 (0.89, 1.60)	9.93
Test for overall effect: Z= 1.21, p=0.227							
NAFLD by blood biomarkers/scores							
Huh	2017	4761	FLI	601	724	1.46 (1.19, 1.79)	7.85
Chon (non-obese)	2020	3554	NAFLD liver fat score	459	667	1.24 (1.01, 1.52)	7.84
Chon (obese)	2020	2583	NAFLD liver fat score	1104	591	1.33 (1.14, 1.55)	11.03
Subtotal (I-squared = 0.0%, p = 0.538)						1.34 (1.20, 1.49)	26.72
Test for overall effect: Z= 5.43, p<0.0001							
NAFLD by imaging methods							
Chang	2008	8329	US	2516	324	1.60 (1.27, 2.01)	6.68
Targher	2008	1760	US	1289	547	1.49 (1.10, 2.20)	3.49
Sinn	2017	41430	US	14223	691	1.21 (1.03, 1.44)	10.02
Wilechansky	2019	688	CT	131	99	1.20 (0.50, 2.80)	0.65
Subtotal (I-squared = 27.3%, p = 0.248)						1.37 (1.17, 1.62)	20.84
Test for overall effect: Z= 3.81, p<0.0001							
NAFLD by ICD-9/ICD-10 codes							
Park	2019	1032497	ICD-9	262619	14421	1.58 (1.52, 1.66)	21.39
Kaps	2020	96114	ICD-10	48057	13792	1.58 (1.51, 1.66)	21.11
Subtotal (I-squared = 0.0%, p = 1.000)						1.58 (1.53, 1.63)	42.50
Test for overall effect: Z= 27.8, p<0.0001							
Overall (I-squared = 60.7%, p = 0.005)						1.43 (1.33, 1.54)	100.00
Total		1215872		337088	33533		
Test for overall effect: Z= 10.0, p<0.0001							

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2

3

Hazard ratio for incident CKD stage ≥ 3