Kempiński R, Neubauer K, Hałoń A, et al. Evaluation of adipose tissue and liver radiodensity in overweight or obese patients with nonalcoholic fatty liver disease. Pol Arch Intern Med. 2019; 129: 354-356. doi:10.20452/pamw.4457

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Table S1. Definition of non-alcoholic steatohepatitis components for calculation of Nonalcoholic fatty liver disease Activity Score

Item	Score	Extend
Steatosis	0	<5%
	1	5-33%
	2	>33%-66%
	3	>66%
Hepatocyte balooning	0	None
	1	Few balloon cells
	2	Many cells/ prominent
		balooning
Lobular inflammation	0	No foci
	1	<2foci/200x
	2	2-4foci/200x
	3	>4foci/200x

NAS score 5-8: NASH; NAS score 0-2: no NASH; NAS score 3-4: borderline cases

NASH, non-alcoholic stetohepatitis

NAS, Nonalcoholic fatty liver disease Activity Score

Table S2. Selected clinical data of patients in the study group (44 patients)

Age (years) <sup>a</sup>	46.1 (10.9)
Sex (female/male)	13/31
BMI, kg/m <sup>2a</sup>	31.2 (4.2)
Waist circumference, cm <sup>a</sup>	107.5 (9.6)
WHR <sup>a</sup>	1.0 (0.04)
WHtR <sup>a</sup>	0.61 (0.06)
ALT (<35 U/I) <sup>a</sup>	73.3 (33.6)
AST (<31 U/I) <sup>a</sup>	53.0 (26.5)
GGT (<38 U/I) <sup>a</sup>	82.8 (47.6)
Alkaline phosphatase (30-120 U/I) <sup>a</sup>	96.4 (37.1)
TG (<1.69 mmol/l) <sup>a</sup>	233.2 (140.1)
HOMA-IR <sup>a</sup>	2.54 (2.54)
Hypertension <sup>b</sup>	25 (56.8%)
Diabetes <sup>b</sup>	13 (29.5%)
Dyslipedemia <sup>b</sup>	19 (43.2%)
Metabolic syndrome <sup>b</sup>	17 (38.6%)
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ALT, alanine transaminase; AST, aspartate transaminase; BMI, body mass index; GGT,

gamma-glutamyl-transferase; HOMA-IR, homeostasis model assessment of insulin resistance,

TG triglycerides; WHR, waist to hip ratio; WHtR, waist to height ratio

<sup>&</sup>lt;sup>a</sup>Mean (SD)

<sup>&</sup>lt;sup>b</sup>N and percentage

Table S3. Visceral, subcutaneous adipose tissue and visceral/subcutaneous adipose tissue ratio in patients with non-alcoholic fatty liver disease. Mean (SD)

	VAT, mL	SAT, mL	VAT/SAT ratio
Total	2,268 (826)	3,081 (1,238)	0.83 (0.38)
Women	2,364 (676)	3,724 (718)	0.65 (0.26)
Men	2,236 (889)	2,808 (1,320)	0.9 (0.39)

SAT, subcutaneous adipose tissue; VAT, visceral adipose tissue

Table S4. Pearson's correlation coefficient for visceral/subcutaneous adipose tissue and selected anthropometric parameters of patients with non-alcoholic fatty liver disease.

	VAT+SAT	VAT	SAT
Weight, kg	0.63 P<0.001	0.35 P=0.02	0.59 P<0.001
BMI, kg/m <sup>2</sup>	0.73 P<0.001	0.41 P<0.001	0.67 P<0.001
Waist circumference, cm	0.72 P<0.001	0.49 P<0.001	0.61 P<0.001
Hip circumference, cm	0.63 P<0.001	0.29 P=0.06	0.65 P<0.001
Waist to hip ratio	0.23 P=0.17	0.42 P=0.006	0.04 P=0.82

For abbreviations see Table S3

Table S5. Correlation coefficient for visceral, subcutaneous adipose tissue, visceral/subcutaneous adipose tissue ratio and selected histological parameters of patients with non-alcoholic fatty liver disease.

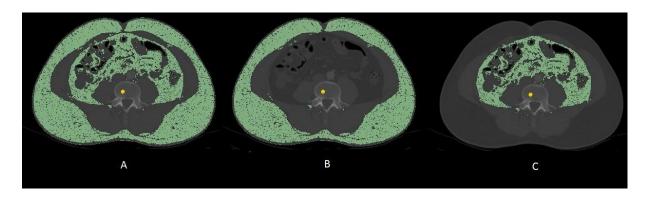
## a Pearson's correlation coefficient, b Spearman's correlation coefficient

	VAT+SAT	VAT	SAT	VAT/SAT ratio
Steatotic hepatocytes, % <sup>a</sup>	0.22 P=0.20	0.11 P=0.50	0.23 P=0.18	-0.13 P=0.43
NAS, 0-8 <sup>b</sup>	-0.04 P=0.80	0.23 P=0.14	-0.10 P=0.55	0.29 P=0.08
Fibrosis, 0-4 <sup>b</sup>	0.47 P=0.004	0.28 P=0.09	0.52 P=0.001	-0.25 P=0.13

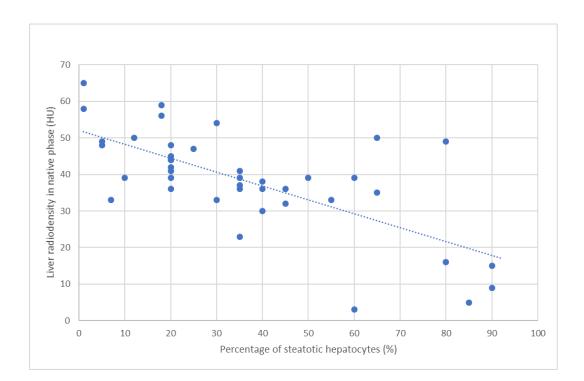
For abbreviations see Table S1 and S3

Table S6. Utility of liver radiodensity testing for evaluation of moderate to severe hepatocyte steatosis.

Statistic	value	95% CI
Sensitivity	89.47%	66.86% to 98.70%
Specificity	71.43 %	47.82% to 88.72%
Positive Likelihood Ratio	3.13	1.57 to 6.27
Negative Likelihood Ratio	0.15	0.04 to 0.56
Positive Predictive Value	73.91%	51.59% to 89.77%
Negative Predictive Value	88.24 %	63.56% to 98.54%



**Figure S1.** Adipose tissue in computed tomography. A- total visceral tissue. B- subcutaneous adipose tissue. C- visceral adipose tissue.



**Figure S2.** Liver radiodensity in native phase of computed tomography in correlation with % of steatotic hepatocytes.