

Supplementary Table S1. Patient demographics, parameters of transient elastography and steatosis (CAP), serum tumor markers, and serum parameters of liver injury, cell death, inflammation bile acid, lipid and glucose metabolism. Individual p-values are stated in case of significant differences and were calculated by Kruskal-Wallis test. For the single parameters the mean and the standard deviation over all patients is shown.

	Control (C)	NASH (N)	HCC	p-value
Number of subjects	m=12/f=7	m=20/f=12	m=22/f=7	
Age (years)	23.5 ± 2.7	53.3 ± 14.0	67.8 ± 10.4	<0.001 C vs. N <0.001 C vs. HCC 0.001 N vs. HCC
BMI (kg/m ²)	23.0 ± 2.6	30.9 ± 6.5	30.3 ± 5.6	<0.001 C vs. N <0.001 C vs. HCC
TE (kPa)	5.4 ± 2.4	15.9 ± 14.2	37.1 ± 27.0	<0.001 C vs. N <0.001 C vs. HCC 0.013 N vs. HCC
CAP (dB/m)	209.1 ± 48.0	303.1 ± 71.7	290.1 ± 67.6	<0.001 C vs. N 0.003 C vs. HCC
AFP-Centaur (IU/ml)	1.0 ± 0.0	36.3 ± 187.8	1234.8 ± 3832.9	<0.001 C vs. N <0.001 C vs. HCC <0.001 N vs. HCC
AFP-L3 (%)	0.3 ± 0.0	8.4 ± 21.6	21.4 ± 25.2	<0.001 C vs. HCC 0.002 N vs. HCC
DCP (ng/ml)	0.2 ± 0.0	1.7 ± 4.5	157.3 ± 353.9	0.003 C vs. N <0.001 C vs. HCC
AST (U/l)	26.0 ± 13.7	56.1 ± 43.7	82.7 ± 92.7	0.001 C vs. N <0.001 C vs. HCC 0.043 N vs. HCC
ALT (U/l)	25.4 ± 15.0	66.4 ± 56.6	48.1 ± 19.2	<0.001 C vs. N <0.001 C vs. HCC
AP (U/l)	56.4 ± 16.5	119.3 ± 71.9	223.8 ± 283.2	<0.001 C vs. N <0.001 C vs. HCC 0.042 N vs. HCC
γGT (U/l)	18.2 ± 8.0	132.6 ± 120.3	235.2 ± 160.7	<0.001 C vs. N <0.001 C vs. HCC 0.018 N vs. HCC
GLDH (U/l)	2.6 ± 0.9	15.6 ± 30.3	12.0 ± 9.9	<0.001 C vs. N <0.001 C vs. HCC
LDH (U/l)	182.1 ± 38.6	212.1 ± 46.8	251.1 ± 65.1	0.029 C vs. N <0.001 C vs. HCC 0.036 N vs. HCC
Bilirubin (mg/dl)	0.7 ± 0.3	0.7 ± 0.3	1.3 ± 1.2	n. s.
M65 (U/l)	142.6 ± 11.2	507.1 ± 417.4	438.7 ± 506.0	<0.001 C vs. N <0.001 C vs. HCC
M30 (U/l)	116.8 ± 34.8	263.6 ± 200.8	438.7 ± 291.4	0.001 C vs. N <0.001 C vs. HCC 0.016 N vs. HCC
IL6 (pg/ml)	3.1 ± 0.0	9.2 ± 11.7	20.5 ± 59.7	0.001 C vs. N 0.001 C vs. HCC
TNFα (pg/ml)	18.7 ± 3.6	17.0 ± 1.7	20.5 ± 59.7	<0.001 C vs. HCC <0.001 N vs. HCC

LBP1 (ng/ml)	184.8 ± 75.7	205.7 ± 79.1	184.4 ± 81.8	n.s.
Total bile acids (μmol/l)	4.0 ± 1.4	21.7 ± 4.5	44.5 ± 57.1	0.005 C vs. N <0.001 C vs. HCC 0.024 N vs. HCC
FGF19 (pg/ml)	26.0 ± 13.7	56.1 ± 43.7	82.7 ± 92.7	0.008 N vs. HCC
TAG (mg/dl)	113.2 ± 47.2	232.1 ± 145.2	185.2 ± 103.1	0.001 C vs. N 0.022 C vs. HCC
Cholesterol (mg/dl)	171.8 ± 24.6	204.1 ± 71.9	190.3 ± 33.4	n. s.
LDL- Cholesterol (mg/dl)	79.8 ± 15.8	116.5 ± 4.9	115.5 ± 32.9	0.001 C vs. HCC
HDL- Cholesterol (mg/dl)	69.4 ± 19.7	48.8 ± 17.9	43.7 ± 18.9	0.001 C vs. N <0.001 C vs. HCC
Adiponectin (ng/ml)	6.1 ± 3.1	11.3 ± 24.1	13.3 ± 21.9	n. s.
GLP1 (pg/ml)	25.4 ± 15.0	66.4 ± 56.6	48.1 ± 19.2	0.001 C vs. N <0.001 C vs. HCC
FGF21 (pg/ml)	56.4 ± 16.5	119.3 ± 71.9	223.8 ± 283.2	0.001 C vs. N 0.001 C vs. HCC