

## Supplementary

**Table S1** Correlation between Iron<sub>-CT</sub>(X) and LIC(Y) at different hepatic fat levels

Fat grade	Correlation coefficient (r)	P value	Linear equation	P value	F value
Normal fat content (n=12)	0.99	<0.001	$Y = 0.34 * X - 1.738$	<0.001	354.4
Mild steatosis (n=12)	0.92	<0.001	$Y = 0.38 * X - 3.859$	<0.001	58.49
Moderate & severe steatosis (n=14)	0.93	<0.001	$Y = 0.29 * X - 0.1291$	<0.001	72.92

**Table S2** Correlation between Fat-CT (X) and Fat-ref (Y) at different hepatic iron levels

Iron grade	Correlation coefficient(r)	P value	Linear equations	P value	F value
Normal iron content (n=7)	0.92	0.003	$Y = 1.51 * X + 16.61$	0.003	27.38
Mild iron overload (n=7)	0.95	0.001	$Y = 1.85 * X + 11.97$	0.001	45.78
Moderate iron overload (n=8)	0.89	0.003	$Y = 1.64 * X + 16.28$	0.003	23.68
Severe iron overload (n=9)	0.89	0.001	$Y = 1.65 * X + 10.16$	0.001	27.21
Massive iron overload (n=7)	0.76	0.046	$Y = 2.62 * X + 11.75$	0.046	7.001