ERRATUM

Erratum to: Sarcopenia, but not visceral fat amount, is a risk factor of postoperative complications after major hepatectomy

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In the original publication of the article, there were incorrect values in Tables 3, 4 and supplementary Tables S3 and S4.

The corrected tables are given in this erratum.

In the “Results” section, under the sub-heading “Impact of sarcopenia and visceral fat amount on surgical outcomes after major hepatectomy”, HR value is incorrect in the sentence “In multivariable analysis, low skeletal muscle mass was identified as the risk factor in mortality (HR 4.3, $P = 0.038$) (Table 3).”

The corrected sentence is as follows:

In multivariable analysis, low skeletal muscle mass was identified as the risk factor in mortality (HR 8.2, $P = 0.038$) (Table 3).

The online version of the original article can be found under doi: [10.1007/s10147-015-0898-0](https://doi.org/10.1007/s10147-015-0898-0).

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Table 3 Univariable and multivariable analysis of clinical factors and mortality in all patients

Clinical factors	Morbidity			Liver-related morbidity			Mortality		
	Univariable analysis		Multivariable analysis	Univariable analysis		Multivariable analysis	Univariable analysis		Multivariable analysis
	Hazard ratio	P	Hazard ratio	Hazard ratio	P	Hazard ratio	Hazard ratio	P	Hazard ratio
Age ≥ 65 years	1.56 (0.76, 3.26)	0.23		2.55 (0.7, 12)	0.16		1.77 (0.35, 2.83)	0.213	
Sex Male	1.23 (0.56, 1.66)	0.46		1.33 (0.74, 2.67)	0.57		1.45 (0.41, 2.43)	0.368	
Sarcopenia	1.22 (0.60, 2.51)	0.58		2.88 (0.79, 13.6)	0.11		7.77 (1.93, 14.9)	0.021	8.2 (1.12, 17.2)
Body mass index ≤ 22.5 kg/m ²	0.94 (0.46, 1.91)	0.86		0.82 (0.23, 2.85)	0.75		0.53 (0.58, 1.72)	0.46	
Low visceral fat amount	0.78 (0.37, 1.61)	0.5		0.93 (0.26, 3.23)	0.9		0.80 (0.52, 1.94)	0.37	
Albumin ≥ 4 g/dl	0.48 (0.21, 1.03)	0.06		0.566 (0.12, 2.14)	0.41		0.82 (0.16, 3.47)	0.78	
Total bilirubin ≥ 0.7 mg/dl	0.57 (0.25, 1.23)	0.15		0.65 (0.13, 2.45)	0.53		0.75 (0.5, 2.0)	0.39	
Platelet count $\geq 16.8 \times 10^4/\mu\text{l}$	1.02 (0.49, 2.15)	0.95		2.53 (0.67, 12.2)	0.17		2.29 (0.31, 3.25)	0.13	
ICGR ₁₅ $\geq 10.7\%$	0.57 (0.27, 1.21)	0.144		0.66 (0.16, 2.41)	0.53		0.51 (0.59, 1.69)	0.477	
HCV infection	1.40 (0.64, 2.98)	0.39		4.72 (1.34, 18.9)	0.016		12.4 (2.29, 16.1)	0.006	22.3 (3.2, 46.2)
Preoperative therapy	1.33 (0.61, 2.83)	0.46		3 (0.855, 10.9)	0.085		3.69 (0.24, 4.15)	0.055	
Tumor size ≥ 5 cm	1.49 (0.71, 3.17)	0.29		1.43 (0.39, 5.82)	0.59		1.08 (0.25, 4.77)	0.91	
Multiple tumors	0.99 (0.47, 2.1)	0.98		0.57 (0.14, 2.11)	0.4		0.79 (0.52, 1.93)	0.374	
Transfusion	1.56 (0.2, 3.14)	0.48		1.98 (0.5, 7.1)	0.41		1.43 (0.11, 6.57)	0.41	
Operative time ≥ 418 min	2.26 (1.06, 4.96)	0.035		9.76 (1.76, 18.2)	0.006	29.2 (2.55, 98.5)	7.34 (1.88, 15.2)	0.024	5.72 (1.29, 10.0)
Blood loss ≥ 400 ml	1.82 (0.86, 3.98)	0.12		9.78 (1.76, 18.3)	0.006		7.34 (1.88, 15.2)	0.024	

Values in parentheses are 95% confidence intervals

ICGR₁₅ indocyanine green dye retention test at 15 min

Table 4 Univariable and multivariable analysis of clinical factors and morbidity, liver-related morbidity and mortality in patients aged >70 years

Clinical factors	Morbidity			Liver-related morbidity			Mortality		
	Univariable analysis		Multivariable analysis		Univariable analysis		Univariable analysis		Multivariable analysis
	Hazard ratio	P	Hazard ratio	P	Hazard ratio	P	Hazard ratio	P	Hazard ratio
Sex Male	1.89 (0.38, 2.62)	0.17			1.23 (0.38, 2.6)	0.36	1.62 (0.48, 2.1)	0.49	
Sarcopenia	3.3 (1.99, 11.9)	0.046	4.6 (1.21, 19.4)	0.032	8.33 (1.92, 35.4)	0.025	9.7 (1.81, 29.5)	0.002	6.54 (1.39, 17.3)
Body mass index ≤ 22.4 kg/m ²	0.88 (0.57, 1.76)	0.35			1.04 (0.19, 5.29)	0.96	0.69 (0.12, 4.11)	0.67	
Low visceral fat amount	0.42 (0.05, 3.25)	0.31			0.61 (0.02, 8.21)	0.64	0.95 (0.17, 6.22)	0.96	
Albumin ≥ 4 g/dl	1.03 (0.37, 3.99)	0.76			1.0 (0.11, 2.1)	1.0	1.0 (0.17, 5.95)	1.0	
Total bilirubin ≥ 0.7 mg/dl	0.52 (0.04, 5.35)	0.51			0.35 (0.12, 2.13)	0.16	0.24 (0.01, 1.67)	0.16	
Platelet count $\geq 17.1 \times 10^4/\mu\text{l}$	0.68 (0.22, 3.1)	0.38			0.31 (0.02, 2.54)	0.133	0.23 (0.06, 1.91)	0.13	
ICGR ₁₅ $\geq 10.3\%$	0.39 (0.03, 1.56)	0.13			0.36 (0.02, 1.54)	0.133	0.22 (0.011, 1.52)	0.13	
HCV infection	2.11 (0.42, 2.39)	0.15			11.2 (1.23, 101)	0.009	11.6 (6.6, 25.1)	<0.001	8.23 (2.15, 13.9)
Preoperative therapy	1.91 (0.55, 6.71)	0.31			8.25 (1.38, 49.2)	0.011	17.0 (3.77, 36.2)	0.004	4.6 (1.49, 10.4)
Tumor size ≥ 5 cm	4.15 (1.2, 16.1)	0.024	5.0 (1.21, 19.4)	0.025	1.05 (0.18, 6.26)	0.96	1.05 (0.18, 6.26)	0.96	
Multiple tumors	1.3 (0.39, 4.32)	0.68			1.05 (0.18, 6.26)	0.69	0.95 (0.16, 5.68)	0.96	
Transfusion	1.12 (0.09, 11.4)	0.36			2.04 (0.23, 9.18)	0.63	1.98 (0.21, 4.88)	0.63	
Operative time ≥ 421 min	1.98 (0.6, 6.8)	0.26			3.69 (0.15, 6.67)	0.055	3.69 (0.15, 6.67)	0.055	
Blood loss (ml) ≥ 400 ml	1.69 (0.51, 5.74)	0.39			7.81 (1.83, 73.2)	0.037	7.81 (1.83, 73.2)	0.037	

Values in parentheses are 95% confidence intervals

ICGR₁₅ indocyanine green dye retention test at 15 min

Table S3 Univariable and multivariable analysis of clinical factors and liver-related morbidity and mortality in HCC patients

Clinical factors	Morbidity		Liver-related morbidity				Mortality			
	Univariable analysis		Multivariable analysis		Multivariable analysis		Univariable analysis		Multivariable analysis	
	Hazard ratio	P	Hazard ratio	P	Hazard ratio	P	Hazard ratio	P	Hazard ratio	P
Age ≥65 years	1.9 (0.77, 4.87)	0.16	6.67 (1.77, 12.1)	0.039	8.0 (2.83, 19.5)	0.014	2.31 (0.23, 4.4)	0.13		
Sex Male	2.98 (0.42, 4.51)	0.07	1.41 (0.34, 2.42)	0.74			1.01 (0.05, 6.95)	0.99		
Sarcopenia	1.4 (0.58, 3.43)	0.46	8.51 (1.01, 17.4)	0.018	14.9 (1.59, 27.0)	<0.001	8.88 (2.36, 42.3)	0.003	9.45 (1.15, 25.0)	0.002
Body mass index ≤22.8 kg/m ²	1.07 (0.44, 2.61)	0.88	1.02 (0.23, 4.59)	0.97			2.05 (0.38, 15.3)	0.41		
Low visceral fat amount	1.23 (0.51, 3.01)	0.65	1.08 (0.24, 4.82)	0.92			2.25 (0.42, 16.9)	0.35		
Albumin ≥4 g/dl	0.25 (0.012, 1.24)	0.06	0.75 (0.39, 1.12)	0.43			0.66 (0.09, 3.6)	0.64		
Total bilirubin ≥0.8 mg/dl	0.88 (0.35, 2.19)	0.78	0.96 (0.44, 2.26)	0.33			0.57 (0.076, 3.08)	0.52		
Platelet count ≥15.3 × 10 ⁴ /μl	1.15 (0.46, 2.9)	0.76	0.21 (0.01, 0.98)	0.036			0.39 (0.08, 1.21)	0.073		
ICGR15 ≥11.9%	1.08 (0.43, 2.71)	0.87	1.37 (0.38, 2.63)	0.24			1.39 (0.65, 2.64)	0.41		
HCV infection	1.02 (0.42, 2.54)	0.96	4.69 (1.89, 9.7)	0.046	6.9 (1.85, 18.2)	0.009	11.1 (1.93, 51.9)	<0.001	5.66 (1.1, 19.1)	0.017
Preoperative therapy	1.19 (0.48, 3.09)	0.7	2.27 (0.32, 3.1)	0.13			2.27 (0.27, 3.67)	0.13		
Tumor size ≥6.5 cm	1.43 (0.57, 3.64)	0.44	1.33 (0.28, 7.14)	0.72			1.02 (0.18, 5.84)	0.98		
Multiple tumors	0.92 (0.36, 2.3)	0.86	0.95 (0.44, 2.26)	0.33			0.45 (0.012, 3.2)	0.52		
Transfusion	1.39 (0.27, 3.98)	0.59	1.12 (0.28, 3.6)	0.34			1.29 (0.21, 4.6)	0.42		
Operative time ≥417 min	2.64 (1.04, 7.1)	0.04	7.0 (1.81, 10.9)	0.001	14.4 (1.09, 32.5)	<0.001	5.68 (1.63, 10.8)	0.033	11.7 (6.4, 28.6)	<0.001
Blood loss ≥400 ml	2.41 (0.94, 6.55)	0.07	6.67 (1.77, 8.6)	0.041			3.02 (0.19, 5.41)	0.083		

Values in parentheses are 95% confidence intervals

ICGR₁₅ indocyanine green dye retention test at 15 min

Table S4 Univariable and multivariable analysis of clinical factors and morbidity, liver-related morbidity and mortality in HCC patients aged >70 years

Clinical factors	Morbidity		Liver-related morbidity				Mortality			
	Univariable analysis		Multivariable analysis		Univariable analysis		Univariable analysis		Multivariable analysis	
	Hazard ratio	P	Hazard ratio	P	Hazard ratio	P	Hazard ratio	P	Hazard ratio	P
Sex Male	7 (1.01, 26.8)	0.049			1.87 (0.23, 3.8)	0.52	1.54 (0.31, 5.4)	0.71		
Sarcopenia	5.2 (1.13, 8.1)	0.034	5.2 (1.38, 12.5)	0.023	9.9 (1.3, 20.9)	0.024	9.7 (1.14, 16.7)	0.002	6.73 (1.25, 18.0)	0.009
Body mass index ≤ 23.1 kg/m ²	1.12 (0.25, 5.0)	0.88			0.6 (0.09, 3.85)	0.58	2.67 (0.38, 23.3)	0.32		
Low visceral fat amount	0.7 (0.05, 4.3)	0.36			0.72 (0.26, 10.8)	0.58	1.0 (0.12, 7.12)	1.0		
Albumin ≥ 4 g/dl	1.04 (0.22, 4.77)	0.96			1.27 (0.18, 10.9)	0.81	1.27 (0.018, 10.9)	0.81		
Total bilirubin ≥ 0.8 mg/dl	0.42 (0.08, 2.1)	0.078			0.89 (0.35, 2.86)	0.35	0.63 (0.35, 1.52)	0.34		
Platelet count $\geq 15.7 \times 10^4/\mu\text{l}$	0.52 (0.07, 2.3)	0.13			0.65 (0.25, 1.3)	0.2	0.69 (0.25, 3.2)	0.3		
ICGR ₁₅ $\geq 12.4\%$	0.57 (0.11, 2.6)	0.47			1.62 (0.25, 4)	0.2	1.62 (0.25, 4)	0.2		
HCV infection	2.4 (0.51, 13.6)	0.27			1.42 (0.28, 3.57)	0.23	5.1 (1.27, 9.6)	0.024	6.0 (1.37, 7.28)	0.014
Preoperative therapy	1.43 (0.31, 6.61)	0.64			2.82 (0.21, 4.86)	0.093	4.8 (1.26, 8.3)	0.029		
Tumor size ≥ 6.5 cm	5.3 (1.1, 32.1)	0.037	6.8 (2.0, 16.1)	0.009	1.77 (0.25, 15.4)	0.56	1.78 (0.25, 15.4)	0.56		
Multiple tumors	1.04 (0.22, 4.77)	0.96			1.27 (0.18, 10.9)	0.81	1.27 (0.18, 10.9)	0.81		
Transfusion	0.9 (0.094, 10.6)	0.34			1.46 (0.26, 2.44)	0.58	1.4 (0.31, 38.2)	0.58		
Operative time ≥ 417 min	4.19 (0.88, 24.6)	0.07			5.6 (1.54, 17.7)	0.042	7.57 (1.40, 8.7)	0.006	7.23 (1.06, 9.44)	0.007
Blood loss ≥ 400 ml	4.89 (1.01, 29.6)	0.049	4.2 (1.12, 10.7)	0.039	2.32 (0.19, 5.2)	0.13	2.32 (0.19, 5.2)	0.13		

Values in parentheses are 95% confidence intervals

ICGR₁₅ indocyanine green dye retention test at 15 min