medical sciences

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Original Research

Risk Scoring System to Predict Mortality in Gastric Cancer with Peritoneal Carcinomatosis

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Supplementary Materials: The following supporting information can be downloaded at: www.mdpi.com/xxx/s1, **Table S1**: Data of patients with stage IV gastric cancer with peritoneal carcinomatosis – all patients; **Table S2**: Binary logistic regression of risk factors related to death within 6 months – variables included in the score; **Table S3**: Variables and points to risk score calculation.

Table S1. Data of patients with stage IV gastric cancer with peritoneal carcinomatosis – all patients.

Variables	n = 211	%
Sex		
Female	82	38.9
Male	129	61.1
Age (years)		
Mean (SD)	60.5 (12.8)	
Body Mass Index (Kg/m²)		
Mean (SD)	22.3 (4.5)	
ASA Classification		
I / II	128	60.7
III / IV	83	39.3
Charlson Comorbidity Index (CCI)		
CCI 0	168	79.6
CCI > I	43	20.4
Hemoglobin (g/dL)		
Mean (SD)	10.9 (2.2)	
Albumin (g/dL)		
Mean (SD)	3.6 (0.7)	
Neutrophil-Lymphocyte Ratio		
Mean (SD)	4.84 (5.56)	
Tumor Location		
Lower third	88	41.7
Middle third	71	33.6
Upper third	31	14.7
Plastic linite	21	10.0
Tumor size (cm)		
Mean (SD)	8.2 (3.8)	
Histological Type		

Intestinal	31	14.7
Diffuse / mixed	87	41.2
Adenocarcinoma (not specified)	93	44.1
Differentiation Grade		
G1/G2	27	12.8
G3	91	43.1
Adenocarcinoma (not specified)	93	44.1
cT		
cT3	8	3.8
cT4a	109	51.7
cT4b	94	44.5
cN		
cN0	2	0.9
cN1	7	3.3
cN2	24	11.4
cN3	178	84.4
cM1		
Only peritoneal	182	86.3
Peritoneum and other sites	29	13.7
Stenosis		
No	109	51.7
Yes	102	48.3
Ascites on CT Scan		
No	122	57.8
Yes	89	42.2
Circumferential Tumor		
No	66	31.3
Yes	145	68.7
Type of Surgery		
Diagnostic laparoscopy	69	32.7
Bypass	53	25.1
Gastrectomy (total/subtotal)	28	13.3
Jejunostomy	55	26.1
Cytoreduction	6	2.8
Postoperative Complications (POC)		
non-POC/Clavien I-II	186	88.2
Clavien III - V	25	11.8
Hospitalization time (days)		
Median (IQR)	4 (2 - 8)	
Palliative chemotherapy		
No	74	35.1
Yes	137	64.9
Death < 6 months		

No	96	45.5
Yes	115	54.5
Risk Score		
Low-Risk (<9)	136	64.5
High-Risk (≥9)	75	35.5

SD, standard deviation; IQR, interquartile range

Table S2. Binary logistic regression of risk factors related to death within 6 months – variables included in the score.

Variables	**Exp(B)**	**95% CI**
Age ≥60 (vs <65 years)	1.63	0.83 - 3.18
Female (vs male)	1.90	0.98 - 3.68
Neutrophil-Lymphocyte Ratio (NLR) ≥3.85 (vs NLR <3.85)	2.73	1.37 - 5.46
Hemoglobin (Hb) <11 g/dL (vs Hb ≥ 11g/dL)	1.43	0.75 - 2.72
Charlson Comorbidity Index (CCI) ≥1 (vs CCI 0)	0.97	0.40 - 2.34
ASA III/IV (vs ASA I/II)	1.34	0.67 - 2.65
Stenosis (vs absent)	1.42	0.75 - 2.67
Ascites on Computed Tomography (CT) Scan (vs absent)	3.34	1.73 - 6.46
Tumor size ≥8 cm (vs < 8cm)	1.13	0.60 - 2.13

Table S3. Variables and points to risk score calculation.

Variable	**Category**	**Points**
Neutrophil-Lymphocyte Ratio (NLR)	≥3.85	3
Ascites on Computed Tomography (CT) Scan	Present	3
Hemoglobin	<11 g/dL	2
Age	≥60 years	2
Sex	Female	2
Stenosis	Present	2
Tumor Size	≥8 cm	1
ASA	III/IV	1
Charlson Comorbidity Index (CCI)	CCI ≥1	1
Total		**17**