

Supplementary files

Table S1. Demographics and clinical features of overall patients in “presentation-to-endoscopy” group by time frame

	0/6h	6/12h	12/24h	≥24	p-value
	N=2072	N=520	N=399	N=175	
Age, mean [± SD]	67.1 [±15.8]	70.2 [±14.9]	70 [±16.1]	70.4 [±15.8]	<0.001
Male gender, n(%)	1429 (69)	348 (66.9)	269 (67.4)	107 (61.1)	
ASA score, n(%)					0.29
I	550 (26.5)	123 (23.7)	114 (28.6)	55 (31.4)	
III	674 (32.5)	175 (33.7)	120 (30.1)	60 (34.3)	
II	729 (35.2)	189 (36.3)	133 (33.3)	49 (28)	
IV	119 (5.7)	33 (6.3)	32 (8)	11 (6.3)	
Syncope, yes, n (%)	219 (10.6)	61 (11.7)	30 (7.5)	17 (9.7)	0.19
Hematemesis, yes, n (%)	1049 (50.6)	179 (34.4)	101 (25.3)	54 (30.9)	<0.001
Melena, yes, n (%)	1312 (63.3)	352 (67.7)	294 (73.7)	117 (66.9)	<0.001
Hematemesis and melena, yes, n (%)	385 (18.6)	57 (11)	34 (8.5)	17 (9.7)	<0.001
Shock, yes, n (%)	174 (8.4)	22 (4.2)	16 (4)	14 (8)	<0.001
Rockall score, median (IQR)	4 (3-5)	4 (3-5)	3.5 (2-5)	4 (3-5)	0.41
GB score, median (IQR)	7 (5-9)	8 (5-9)	7 (5-9)	8 (6-9)	0.80
ABC score, median (IQR)	5 (3-6)	5 (3-6)	5 (3-6)	4.5 (3-6)	0.74
AIMS65 score, median (IQR)	1 (1-2)	1 (1-2)	2 (1-2)	2 (1-2)	0.55
PNED score, median (IQR)	4 (2-6)	3 (1-5)	3 (1-5)	3 (1-5)	<0.001
Hemoglobin level, gr/d	9.1 (7.5-10.8)	8.9 (7.5-10.8)	8.5 (7.2-10.8)	8.5 (6.8-10)	0.006
Bleeding source					<0.001
Non-variceal, n (%)	1632 (78.8)	470 (90.4)	361 (90.5)	169 (96.6)	
Variceal, n(%)	440 (21.2)	50 (9.6)	38 (9.5)	6 (3.4)	

Table S2. Major outcomes of population in “presentation to endoscopy” group

	0/6h	6/12h	12/24h	≥24h	p-value
	N=2072	N=520	N=399	N=175	
Transfusion, yes (%)	1211 (58.4)	302 (58.1)	258 (64.7)	114 (65.1)	0.044
Rebleeding, yes (%)	131 (6.3)	26 (5)	22 (5.5)	13 (7.4)	0.56
Need for interventional radiology, yes (%)	21 (1)	2 (0.4)	6 (1.5)	1 (0.6)	0.33
Need for surgery, yes (%)	64 (3.1)	13 (2.5)	17 (4.3)	8 (4.6)	0.34
Mortality, yes (%)	146 (7)	28 (5.4)	24 (6)	11 (6.3)	0.54

Table S3. Demographics and clinical features of overall patients in “symptoms-to-endoscopy” group by time frame

	0/6h	6/12h	12/24h	≥24h	<i>p</i> -value
	N=1304	N=745	N=578	N=539	
Age, mean [± SD]	68.1 [±15.1]	68.3 [±15.6]	68.4 [±16.4]	67.9 [±16.7]	0.97
Male gender, n(%)	871 (66.8)	497 (66.7)	404 (69.9)	381 (70.7)	0.24
ASA score, n(%)					<0.001
I	297 (22.8)	185 (24.8)	172 (29.8)	188 (34.9)	
III	461 (35.4)	250 (33.6)	165 (28.5)	153 (28.4)	
II	455 (34.9)	276 (37)	203 (35.1)	166 (30.8)	
IV	91 (7)	34 (4.6)	38 (6.6)	32 (5.9)	
Syncope, yes, n (%)	140 (10.7)	84 (11.3)	57 (9.9)	46 (8.5)	0.40
Hematemesis, yes, n (%)	765 (58.7)	287 (38.5)	195 (33.7)	136 (25.2)	<0.001
Melena, yes, n (%)	717 (55)	504 (67.7)	430 (74.4)	424 (78.7)	<0.001
Hematemesis and melena, yes, n (%)	240 (18.4)	104 (14)	84 (14.5)	65 (12.1)	<0.001
Shock, yes, n (%)	118 (9)	40 (5.4)	31 (5.4)	37 (6.9)	0.003
Rockall score, median (IQR)	4 (3-5)	4 (2-5)	3 (2-5)	3.5 (2-5)	<0.001
GB score, median (IQR)	8 (5-9)	7 (4-9)	7 (5-9)	7 (6-9)	0.047
ABC score, median (IQR)	5 (3-7)	4 (3-6)	4 (3-6)	4 (3-6)	<0.001
AIMS65 score, median (IQR)	2 (1-2)	1 (1-2)	1 (1-2)	1 (1-2)	<0.001
PNED score, median (IQR)	4 (2-6)	3 (1-5)	3 (1-5)	3 (1-5)	<0.001
Hemoglobin level, gr/d	9 (7.5-10.7)	9.3 (7.7-11.1)	8.8 (7.4-11)	8.5 (6.8-10.4)	<0.001
Bleeding source					<0.001
Non-variceal, n (%)	971 (74.5)	647 (86.8)	508 (87.9)	506 (93.9)	
Variceal, n(%)	333 (25.5)	98 (13.2)	70 (12.1)	33 (6.1)	

Table S4. Clinical outcomes in the “symptoms-to-endoscopy” groups by time frame

	0/6h	6/12h	12/24h	≥24h	p-value
	N=1304	N=745	N=578	N=539	
Transfusion, yes (%)	804 (61.7)	396 (53.2)	348 (60.2)	337 (62.5)	<0.001
Rebleeding, yes (%)	106 (8.1)	35 (4.7)	27 (4.7)	24 (4.5)	<0.001
Need for interventional radiology, yes (%)	20 (1.5)	6 (0.8)	3 (0.5)	1 (0.2)	0.024
Need for surgery, yes (%)	45 (3.5)	21 (2.8)	20 (3.5)	16 (3)	0.84
Mortality, yes (%)	117 (9)	38 (5.1)	31 (5.4)	23 (4.3)	<0.001

Table S5. Demographics and clinical features in the outpatients according to “presentation-to-endoscopy” group by time frame

	0/6h	6/12h	12/24h	≥24h	p-value
	N=1730	N=378	N=319	N=124	
Age, mean [± SD]	66.4 [±15.9]	69.7 [±14.9]	69.7 [±16.8]	69 [±16.6]	<0.001
Male gender, n(%)	1207 (69.8)	259 (68.5)	220 (69)	76 (61.3)	0.27
ASA score, n(%)					0.55
I	495 (28.6)	101 (26.7)	98 (30.7)	46 (37.1)	
III	537 (31)	117 (31)	87 (27.3)	37 (29.8)	
II	617 (35.7)	140 (37)	116 (36.4)	36 (29)	
IV	81 (4.7)	20 (5.3)	18 (5.6)	5 (4)	
Syncope, yes, n (%)	195 (11.3)	55 (14.6)	26 (8.2)	14 (11.3)	0.07
Hematemesis, yes, n (%)	903 (52.2)	147 (38.9)	80 (25.1)	43 (34.7)	<0.001
Melena, yes, n (%)	1100 (63.6)	248 (65.6)	239 (74.9)	79 (63.7)	<0.001
Hematemesis and melena, yes, n (%)	342 (19.8)	48 (12.7)	31 (9.7)	14 (11.3)	<0.001
Shock, yes, n (%)	147 (8.5)	16 (4.2)	8 (2.5)	9 (7.3)	0.001
Rockall score, median (IQR)	4 (3-5)	4 (2-5)	3 (2-5)	4 (2-5)	0.27
GB score, median (IQR)	7 (5 -9)	8 (5 -9)	7 (5 -9)	8 (4 -9)	0.87
ABC score, median (IQR)	4 (3 -6)	4 (3 -6)	4 (3 -6)	4 (3 -5)	0.22
AIMS65 score, median (IQR)	1 (1 -2)	1 (1 -2)	1 (1 -2)	1.5 (1 -2)	0.47
PNED score, median (IQR)	4 (1 -6)	3 (1 -4)	3 (1 -5)	3 (1 -4.5)	<0.001
Hemoglobin level, gr/d	9.2 (7.5-10.9)	8.8 (7.5-10.8)	8.6 (7.2-10.8)	8.6 (6.6-10.4)	0.021
Bleeding source					<0.001
Non-variceal, n (%)	1333 (77.1)	335 (88.6)	293 (91.8)	119 (96)	
Variceal, n(%)	397 (22.9)	43 (11.4)	26 (8.2)	5 (4)	

Table S6. Outcomes in in the outpatients according to “presentation to endoscopy” group by time frame

	0/6h	6/12h	12/24h	≥24h	p-value
	N=1730	N=378	N=319	N=124	
Transfusion, yes (%)	1002 (57.9)	224 (59.3)	203 (63.6)	72 (58.1)	0.30
Rebleeding, yes (%)	98 (5.7)	17 (4.5)	14 (4.4)	5 (4)	0.60
Need for interventional radiology, yes (%)	14 (0.8)	2 (0.5)	2 (0.6)	1 (0.8)	0.94
Need for surgery, yes (%)	48 (2.8)	11 (2.9)	14 (4.4)	7 (5.6)	0.17
Mortality, yes (%)	97 (5.6)	19 (5)	11 (3.4)	3 (2.4)	0.21

Table S7. Demographics and clinical features of outpatients in the “symptoms-to-endoscopy” group

	0/6h	6/12h	12/24h	≥24h	p-value
	N=987	N=594	N=505	N=465	2
Age, mean [± SD]	67.2 [±15.2]	67.4 [±15.7]	68 [±16.9]	67.3 [±16.7]	0.82
Male gender, n(%)	670 (67.9)	403 (67.8)	355 (70.3)	334 (71.8)	0.38
ASA score, n(%)					0.005
I	248 (25.1)	169 (28.5)	154 (30.5)	169 (36.3)	
III	317 (32.1)	192 (32.3)	139 (27.5)	130 (28)	
II	368 (37.3)	209 (35.2)	185 (36.6)	147 (31.6)	
IV	54 (5.5)	24 (4)	27 (5.3)	19 (4.1)	
Syncope, yes, n (%)	119 (12.1)	75 (12.6)	52 (10.3)	44 (9.5)	0.30
Hematemesis, yes, n (%)	624 (63.2)	258 (43.4)	175 (34.7)	116 (24.9)	<0.001
Melena, yes, n (%)	538 (54.5)	386 (65)	373 (73.9)	369 (79.4)	<0.001
Hematemesis and melena, yes, n (%)	208 (21.1)	92 (15.5)	76 (15)	59 (12.7)	<0.001
Shock, yes, n (%)	94 (9.5)	34 (5.7)	25 (5)	27 (5.8)	0.001
Rockall score, median (IQR)	4 (3-5)	4 (2-5)	3 (2-5)	3 (2-5)	<0.001
GB score, median (IQR)	8 (5-9)	7 (4-9)	7 (4-9)	7 (6-9)	0.026
ABC score, median (IQR)	5 (3-6)	4 (3-6)	4 (3-6)	4 (3-5)	<0.001
AIMS65 score, median (IQR)	2 (1-2)	1 (1-2)	1 (1-2)	1 (1-2)	<0.001
PNED score, median (IQR)	4 (2-6)	3 (1-5)	3 (1-5)	2 (0-4)	<0.001
Hemoglobin level, gr/d	9.1 (7.5-10.7)	9.5 (7.8-11.2)	8.9 (7.4-11)	8.5 (6.8-10.5)	<0.001
Bleeding source					<0.001
Non-variceal, n (%)	701 (71)	502 (84.5)	439 (86.9)	438 (94.2)	
Variceal, n(%)	286 (29)	92 (15.5)	66 (13.1)	27 (5.8)	

Table S8. Outcomes in in the outpatients according to “symptoms-to-endoscopy” group

	0/6h	6/12h	12/24h	≥24h	p-value
	N=987	N=594	N=505	N=465	
Transfusion, yes (%)	607 (61.5)	311 (52.4)	301 (59.6)	282 (60.6)	0.003
Rebleeding, yes (%)	68 (6.9)	29 (4.9)	19 (3.8)	18 (3.9)	0.023
Need for interventional radiology, yes (%)	11 (1.1)	6 (1)	2 (0.4)	0	0.082
Need for surgery, yes (%)	33 (3.3)	17 (2.9)	16 (3.2)	14 (3)	0.96
Mortality, yes (%)	70 (7.1)	29 (4.9)	18 (3.6)	13 (2.8)	0.001

Table S9. Concordance between the two time frames in the outpatient’s cohort (expressed as number of patients)

Symptoms onset to endoscopy group	Presentation to endoscopy group				
	0-6hours	6-12hours	12-24hours	≥24hours	Total
0-6hours	1028	13	4	5	1.050
6-12hours	381	213	20	4	618
12-24hours	191	128	198	8	525
>24hours	220	41	107	111	479
Total	1820	395	329	128	2672

Agreement= **77.4%**; Kappa = **0.41** SE= **0.01**

Expected agreement= **62%**; Z = **33.8**, Prob =**0.0000**

Table S10. Concordance between the two time frames in the inpatient’s cohort (expressed as number of patients)

Symptoms onset to endoscopy group	Presentation to endoscopy group				
	0-6hours	6-12hours	12-24hours	≥24hours	Total
0-6hours	201	9	24	20	254
6-12hours	24	94	6	3	127
12-24hours	4	17	27	5	53
>24hours	23	5	13	19	60
Total	252	125	70	47	494

Agreement = **81.4%**; Kappa=**0.47** SE=**0.03**

Expected agreement= **64%**; Z=**14**, Prob =**0.0000**

Table S11. Effect of “presentation-to-endoscopy” timing on mortality in outpatients

	Odds Ratio	S. E.	z	P> z 	[95% C.I.]
0-6hours					
6-12hours	0.83	0.21	-0.71	0.477	0.50-1.38
12-24hours	0.68	0.20	-1.29	0.197	0.38-1.22
>24hours	0.40	0.23	-1.56	0.118	0.12-1.27
_cons	0.06	0.01	-27.76	0.000	0.05-0.07

Table S12. Effect of “symptoms to endoscopy” timing on mortality in outpatients

	Odds Ratio	S. E.	z	P> z 	[95% C.I.]
0-6hours					
6-12hours	0.69	0.15	-1.71	0.087	0.45- 1.06
12-24hours	0.51	0.13	-2.58	0.010	0.31-0.85
>24hours	0.36	0.11	-3.32	0.001	0.20-0.66
_cons	0.08	0.01	-21.41	0.000	0.06-0.10