

Short-term outcome of equine emergency admissions at a university referral hospital

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Keywords: horse; emergency; colic; gastrointestinal; trauma

TABLE 6: Univariable logistic regression for clinical pathology

Variable	Category	Nonsurvivors n (%)	Survivors n (%)	Univariable odds ratio	95% CI		Wald P value
					Lower	Upper	
Abnormal peritoneal fluid	Yes	15 (71)	6 (29)	8.23	5.24	15.61	<0.001
	No	209 (23)	688 (77)	Referent			
Coagulopathy	Yes	5 (63)	3 (37)	5.3	1.24	22.31	0.01
	No	219 (24)	691 (76)	Referent			
Acid-base	Yes	33 (52)	31 (48)	3.70	2.19	6.24	<0.001
	No	191 (22)	663 (78)	Referent			
Hypoproteinaemia	Yes	36 (47)	40 (53)	3.13	1.93	5.09	<0.001
	No	188 (22)	654 (78)	Referent			
Dehydration	Yes	78 (43)	103 (57)	3.07	2.15	4.37	<0.001
	No	146 (20)	591 (80)	Referent			
Hypoxia/hypercapnia	Yes	13 (48)	14 (52)	3.00	1.38	6.49	0.004
	No	211 (24)	680 (76)	Referent			
Leucopenia	Yes	48 (44)	61 (56)	2.83	1.86	4.31	<0.001
	No	176 (22)	633 (78)	Referent			
Electrolyte abnormalities	Yes	53 (39)	82 (61)	2.31	1.57	3.41	<0.001
	No	171 (22)	612 (78)	Referent			
Hyperlactataemia	Yes	50 (39)	77 (61)	2.30	1.55	3.43	<0.001
	No	174 (22)	617 (78)	Referent			
Azotaemia	Yes	53 (35)	97 (65)	1.91	1.31	2.78	<0.001
	No	171 (22)	597 (78)	Referent			
Anaemia	Yes	18 (64)	10 (36)	1.75	0.80	3.86	0.16
	No	214 (24)	676 (76)	Referent			
High muscle enzyme activity	Yes	11 (35)	20 (65)	1.74	0.82	3.70	0.14
	No	213 (24)	674 (76)	Referent			
Glucose	Yes	18 (34)	35 (66)	1.64	0.91	2.97	0.10
	No	206 (24)	659 (76)	Referent			
Leucocytosis	Yes	39 (28)	99 (72)	1.27	0.84	1.90	0.25
	No	185 (24)	595 (76)	Referent			
High liver enzyme activity	Yes	8 (26)	23 (74)	1.08	0.48	2.45	0.85
	No	216 (24)	671 (76)	Referent			
Hyperfibrinogenaemia	Yes	74 (23)	242 (77)	0.92	0.67	1.27	0.62
	No	150 (25)	452 (75)	Referent			

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TABLE 7: Univariable logistic regression for problems during the initial 24 h following presentation

Variable	Category	Nonsurvivors n (%)	Survivors n (%)	Univariable odds ratio	95% CI		Wald P value
					Lower	Upper	
Recumbent	Yes	53 (70)	23 (30)	9.04	5.24	15.61	<0.001
	No	171 (20)	671 (80)	Referent			
Seizures	Yes	6 (60)	4 (40)	4.45	1.32	17.07	0.008
	No	218 (24)	690 (76)	Referent			
Ataxia	Yes	27 (48)	29 (52)	3.14	1.81	5.47	<0.001
	No	197 (23)	665 (77)	Referent			
Respiratory distress	Yes	16 (52)	15 (48)	3.48	1.68	7.2	<0.001
	No	208 (23)	679 (77)	Referent			
Anorexia	Yes	20 (47)	23 (53)	2.86	1.53	5.34	<0.001
	No	204 (23)	671 (77)	Referent			
Dysphagia	Yes	11 (46)	13 (54)	2.71	1.19	6.15	0.01
	No	213 (24)	681 (76)	Referent			
Haemorrhage	Yes	7 (41)	10 (59)	2.21	0.83	5.88	0.10
	No	217 (24)	684 (76)	Referent			
Tachycardia	Yes	103 (38)	171 (62)	2.60	1.89	3.59	<0.001
	No	121 (19)	523 (81)	Referent			
Nasogastric reflux	Yes	39 (38)	63 (62)	2.11	1.37	3.26	<0.001
	No	185 (23)	631 (77)	Referent			
Diarrhoea	Yes	26 (33)	54 (68)	1.56	0.95	2.55	0.08
	No	198 (24)	640 (76)	Referent			
Fever	Yes	52 (31)	114 (69)	1.54	1.06	2.23	0.02
	No	172 (23)	580 (77)	Referent			
Urinary tract	Yes	3 (30)	7 (70)	1.33	0.34	5.20	0.68
	No	221 (24)	687 (76)	Referent			
Colic	Yes	100 (24)	311 (76)	0.99	0.73	1.34	0.96
	No	124 (24)	383 (76)	Referent			
Tachypnoea	Yes	43 (41)	63 (59)	2.38	1.55	3.64	<0.001
	No	181 (22)	631 (78)	Referent			
Arrhythmia	Yes	1 (25)	3 (75)	1.03	0.11	9.99	0.98
	No	223 (24)	691 (76)	Referent			
Murmur	Yes	8 (24)	26 (76)	0.95	0.42	2.13	0.90
	No	216 (24)	668 (76)	Referent			
Lameness	Yes	29 (21)	107 (79)	0.82	0.52	1.27	0.37
	No	195 (25)	587 (75)	Referent			
Cough	Yes	2 (17)	10 (83)	0.62	0.13	2.84	0.53
	No	222 (25)	684 (75)	Referent			

TABLE 8: Univariable logistic regression for therapy and therapeutic-related procedures performed during the first 24 h following admission

Variable	Category	Nonsurvivors n (%)	Survivors n (%)	Univariable odds ratio	95% CI		Wald P value																																																																																																																																																																																																																																																																																																								
					Lower	Upper																																																																																																																																																																																																																																																																																																									
Caesarean section	Yes	3 (50)	3 (50)	3.13	0.62	15.65	0.14																																																																																																																																																																																																																																																																																																								
	No	221 (24)	691 (76)	Referent				INO ₂	Yes	25 (47)	28 (53)	2.99	1.69	5.27	<0.001	No	199 (23)	666 (77)	Referent	i.v. dextrose	Yes	8 (44)	10 (56)	2.53	0.98	6.52	0.05	No	216 (24)	684 (76)	Referent	Corticosteroids	Yes	10 (40)	15 (60)	2.12	0.93	4.79	0.07	No	214 (24)	679 (76)	Referent	Plasma	Yes	35 (35)	65 (65)	1.79	1.15	2.79	0.009	No	189 (23)	629 (77)	Referent	Polymixin B	Yes	22 (35)	40 (65)	1.78	1.03	3.07	0.04	No	202 (24)	654 (76)	Referent	i.v. crystalloids	Yes	163 (27)	442 (73)	1.52	1.09	2.13	0.01	No	61 (19)	252 (81)	Referent	i.v. lidocaine	Yes	15 (31)	33 (69)	1.44	0.77	2.70	0.26	No	209 (24)	661 (76)	Referent	Celiotomy	Yes	37 (26)	104 (74)	1.12	0.74	1.69	0.58	No	187 (24)	590 (76)	Referent	Blood transfusion	Yes	1 (25)	3 (75)	1.03	0.11	10.0	1.00	No	223 (24)	691 (76)	Referent	NGT	Yes	54 (24)	173 (76)	0.96	0.67	1.36	0.8	No	170 (25)	521 (76)	Referent	Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88	No	222 (24)	687 (76)	Referent	Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001
INO ₂	Yes	25 (47)	28 (53)	2.99	1.69	5.27	<0.001																																																																																																																																																																																																																																																																																																								
	No	199 (23)	666 (77)	Referent				i.v. dextrose	Yes	8 (44)	10 (56)	2.53	0.98	6.52	0.05	No	216 (24)	684 (76)	Referent	Corticosteroids	Yes	10 (40)	15 (60)	2.12	0.93	4.79	0.07	No	214 (24)	679 (76)	Referent	Plasma	Yes	35 (35)	65 (65)	1.79	1.15	2.79	0.009	No	189 (23)	629 (77)	Referent	Polymixin B	Yes	22 (35)	40 (65)	1.78	1.03	3.07	0.04	No	202 (24)	654 (76)	Referent	i.v. crystalloids	Yes	163 (27)	442 (73)	1.52	1.09	2.13	0.01	No	61 (19)	252 (81)	Referent	i.v. lidocaine	Yes	15 (31)	33 (69)	1.44	0.77	2.70	0.26	No	209 (24)	661 (76)	Referent	Celiotomy	Yes	37 (26)	104 (74)	1.12	0.74	1.69	0.58	No	187 (24)	590 (76)	Referent	Blood transfusion	Yes	1 (25)	3 (75)	1.03	0.11	10.0	1.00	No	223 (24)	691 (76)	Referent	NGT	Yes	54 (24)	173 (76)	0.96	0.67	1.36	0.8	No	170 (25)	521 (76)	Referent	Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88	No	222 (24)	687 (76)	Referent	Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent								
i.v. dextrose	Yes	8 (44)	10 (56)	2.53	0.98	6.52	0.05																																																																																																																																																																																																																																																																																																								
	No	216 (24)	684 (76)	Referent				Corticosteroids	Yes	10 (40)	15 (60)	2.12	0.93	4.79	0.07	No	214 (24)	679 (76)	Referent	Plasma	Yes	35 (35)	65 (65)	1.79	1.15	2.79	0.009	No	189 (23)	629 (77)	Referent	Polymixin B	Yes	22 (35)	40 (65)	1.78	1.03	3.07	0.04	No	202 (24)	654 (76)	Referent	i.v. crystalloids	Yes	163 (27)	442 (73)	1.52	1.09	2.13	0.01	No	61 (19)	252 (81)	Referent	i.v. lidocaine	Yes	15 (31)	33 (69)	1.44	0.77	2.70	0.26	No	209 (24)	661 (76)	Referent	Celiotomy	Yes	37 (26)	104 (74)	1.12	0.74	1.69	0.58	No	187 (24)	590 (76)	Referent	Blood transfusion	Yes	1 (25)	3 (75)	1.03	0.11	10.0	1.00	No	223 (24)	691 (76)	Referent	NGT	Yes	54 (24)	173 (76)	0.96	0.67	1.36	0.8	No	170 (25)	521 (76)	Referent	Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88	No	222 (24)	687 (76)	Referent	Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																				
Corticosteroids	Yes	10 (40)	15 (60)	2.12	0.93	4.79	0.07																																																																																																																																																																																																																																																																																																								
	No	214 (24)	679 (76)	Referent				Plasma	Yes	35 (35)	65 (65)	1.79	1.15	2.79	0.009	No	189 (23)	629 (77)	Referent	Polymixin B	Yes	22 (35)	40 (65)	1.78	1.03	3.07	0.04	No	202 (24)	654 (76)	Referent	i.v. crystalloids	Yes	163 (27)	442 (73)	1.52	1.09	2.13	0.01	No	61 (19)	252 (81)	Referent	i.v. lidocaine	Yes	15 (31)	33 (69)	1.44	0.77	2.70	0.26	No	209 (24)	661 (76)	Referent	Celiotomy	Yes	37 (26)	104 (74)	1.12	0.74	1.69	0.58	No	187 (24)	590 (76)	Referent	Blood transfusion	Yes	1 (25)	3 (75)	1.03	0.11	10.0	1.00	No	223 (24)	691 (76)	Referent	NGT	Yes	54 (24)	173 (76)	0.96	0.67	1.36	0.8	No	170 (25)	521 (76)	Referent	Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88	No	222 (24)	687 (76)	Referent	Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																
Plasma	Yes	35 (35)	65 (65)	1.79	1.15	2.79	0.009																																																																																																																																																																																																																																																																																																								
	No	189 (23)	629 (77)	Referent				Polymixin B	Yes	22 (35)	40 (65)	1.78	1.03	3.07	0.04	No	202 (24)	654 (76)	Referent	i.v. crystalloids	Yes	163 (27)	442 (73)	1.52	1.09	2.13	0.01	No	61 (19)	252 (81)	Referent	i.v. lidocaine	Yes	15 (31)	33 (69)	1.44	0.77	2.70	0.26	No	209 (24)	661 (76)	Referent	Celiotomy	Yes	37 (26)	104 (74)	1.12	0.74	1.69	0.58	No	187 (24)	590 (76)	Referent	Blood transfusion	Yes	1 (25)	3 (75)	1.03	0.11	10.0	1.00	No	223 (24)	691 (76)	Referent	NGT	Yes	54 (24)	173 (76)	0.96	0.67	1.36	0.8	No	170 (25)	521 (76)	Referent	Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88	No	222 (24)	687 (76)	Referent	Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																												
Polymixin B	Yes	22 (35)	40 (65)	1.78	1.03	3.07	0.04																																																																																																																																																																																																																																																																																																								
	No	202 (24)	654 (76)	Referent				i.v. crystalloids	Yes	163 (27)	442 (73)	1.52	1.09	2.13	0.01	No	61 (19)	252 (81)	Referent	i.v. lidocaine	Yes	15 (31)	33 (69)	1.44	0.77	2.70	0.26	No	209 (24)	661 (76)	Referent	Celiotomy	Yes	37 (26)	104 (74)	1.12	0.74	1.69	0.58	No	187 (24)	590 (76)	Referent	Blood transfusion	Yes	1 (25)	3 (75)	1.03	0.11	10.0	1.00	No	223 (24)	691 (76)	Referent	NGT	Yes	54 (24)	173 (76)	0.96	0.67	1.36	0.8	No	170 (25)	521 (76)	Referent	Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88	No	222 (24)	687 (76)	Referent	Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																								
i.v. crystalloids	Yes	163 (27)	442 (73)	1.52	1.09	2.13	0.01																																																																																																																																																																																																																																																																																																								
	No	61 (19)	252 (81)	Referent				i.v. lidocaine	Yes	15 (31)	33 (69)	1.44	0.77	2.70	0.26	No	209 (24)	661 (76)	Referent	Celiotomy	Yes	37 (26)	104 (74)	1.12	0.74	1.69	0.58	No	187 (24)	590 (76)	Referent	Blood transfusion	Yes	1 (25)	3 (75)	1.03	0.11	10.0	1.00	No	223 (24)	691 (76)	Referent	NGT	Yes	54 (24)	173 (76)	0.96	0.67	1.36	0.8	No	170 (25)	521 (76)	Referent	Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88	No	222 (24)	687 (76)	Referent	Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																				
i.v. lidocaine	Yes	15 (31)	33 (69)	1.44	0.77	2.70	0.26																																																																																																																																																																																																																																																																																																								
	No	209 (24)	661 (76)	Referent				Celiotomy	Yes	37 (26)	104 (74)	1.12	0.74	1.69	0.58	No	187 (24)	590 (76)	Referent	Blood transfusion	Yes	1 (25)	3 (75)	1.03	0.11	10.0	1.00	No	223 (24)	691 (76)	Referent	NGT	Yes	54 (24)	173 (76)	0.96	0.67	1.36	0.8	No	170 (25)	521 (76)	Referent	Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88	No	222 (24)	687 (76)	Referent	Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																
Celiotomy	Yes	37 (26)	104 (74)	1.12	0.74	1.69	0.58																																																																																																																																																																																																																																																																																																								
	No	187 (24)	590 (76)	Referent				Blood transfusion	Yes	1 (25)	3 (75)	1.03	0.11	10.0	1.00	No	223 (24)	691 (76)	Referent	NGT	Yes	54 (24)	173 (76)	0.96	0.67	1.36	0.8	No	170 (25)	521 (76)	Referent	Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88	No	222 (24)	687 (76)	Referent	Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																												
Blood transfusion	Yes	1 (25)	3 (75)	1.03	0.11	10.0	1.00																																																																																																																																																																																																																																																																																																								
	No	223 (24)	691 (76)	Referent				NGT	Yes	54 (24)	173 (76)	0.96	0.67	1.36	0.8	No	170 (25)	521 (76)	Referent	Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88	No	222 (24)	687 (76)	Referent	Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																								
NGT	Yes	54 (24)	173 (76)	0.96	0.67	1.36	0.8																																																																																																																																																																																																																																																																																																								
	No	170 (25)	521 (76)	Referent				Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88	No	222 (24)	687 (76)	Referent	Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																				
Casting	Yes	2 (22)	7 (78)	0.88	0.18	4.29	0.88																																																																																																																																																																																																																																																																																																								
	No	222 (24)	687 (76)	Referent				Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79	No	218 (24)	673 (76)	Referent	i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																
Intestinal replacement	Yes	6 (22)	21 (78)	0.88	0.35	2.21	0.79																																																																																																																																																																																																																																																																																																								
	No	218 (24)	673 (76)	Referent				i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17	No	134 (26)	379 (74)	Referent	i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																												
i.v. NSAIDs	Yes	90 (22)	315 (78)	0.81	0.59	1.10	0.17																																																																																																																																																																																																																																																																																																								
	No	134 (26)	379 (74)	Referent				i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05	No	135 (27)	366 (73)	Referent	Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																								
i.v. antimicrobial drugs	Yes	89 (21)	328 (79)	0.74	0.54	1.00	0.05																																																																																																																																																																																																																																																																																																								
	No	135 (27)	366 (73)	Referent				Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56	No	220 (25)	677 (75)	Referent	i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																																				
Intestinal anastomosis	Yes	4 (19)	17 (81)	0.72	0.24	2.18	0.56																																																																																																																																																																																																																																																																																																								
	No	220 (25)	677 (75)	Referent				i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04	No	44 (31)	96 (69)	Referent	Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																																																
i.v. catheterisation	Yes	180 (23)	598 (77)	0.65	0.44	0.97	0.04																																																																																																																																																																																																																																																																																																								
	No	44 (31)	96 (69)	Referent				Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04	No	189 (26)	541 (74)	Referent	Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																																																												
Surgery	Yes	35 (19)	153 (81)	0.65	0.44	0.98	0.04																																																																																																																																																																																																																																																																																																								
	No	189 (26)	541 (74)	Referent				Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06	No	209 (25)	617 (75)	Referent	Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																																																																								
Oral antimicrobial drugs	Yes	15 (16)	77 (84)	0.58	0.32	1.02	0.06																																																																																																																																																																																																																																																																																																								
	No	209 (25)	617 (75)	Referent				Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45	No	222 (25)	683 (75)	Referent	Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																																																																																				
Splinting	Yes	2 (15)	11 (85)	0.56	0.12	2.55	0.45																																																																																																																																																																																																																																																																																																								
	No	222 (25)	683 (75)	Referent				Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009	No	218 (25)	641 (75)	Referent	Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																																																																																																
Oral NSAIDs	Yes	6 (10)	53 (90)	0.33	0.14	0.79	0.009																																																																																																																																																																																																																																																																																																								
	No	218 (25)	641 (75)	Referent				Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05	No	223 (25)	676 (75)	Referent	Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																																																																																																												
Enterotomy	Yes	1 (5)	18 (95)	0.17	0.02	1.28	0.05																																																																																																																																																																																																																																																																																																								
	No	223 (25)	676 (75)	Referent				Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06	No	223 (25)	677 (75)	Referent	Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																																																																																																																								
Drainage	Yes	1 (6)	17 (94)	0.18	0.02	1.36	0.06																																																																																																																																																																																																																																																																																																								
	No	223 (25)	677 (75)	Referent				Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02	No	223 (25)	672 (75)	Referent	Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																																																																																																																																				
Topical antimicrobial drugs	Yes	1 (4)	22 (96)	0.14	0.02	1.03	0.02																																																																																																																																																																																																																																																																																																								
	No	223 (25)	672 (75)	Referent				Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02	No	223 (25)	671 (75)	Referent	Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																																																																																																																																																
Synovial cavity lavage	Yes	1 (4)	23 (96)	0.13	0.02	0.98	0.02																																																																																																																																																																																																																																																																																																								
	No	223 (25)	671 (75)	Referent				Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001	No	222 (26)	626 (74)	Referent																																																																																																																																																																																																																																																																																												
Bandaging	Yes	2 (3)	68 (97)	0.08	0.02	0.35	<0.001																																																																																																																																																																																																																																																																																																								
	No	222 (26)	626 (74)	Referent																																																																																																																																																																																																																																																																																																											

INO₂ = intranasal oxygen; i.v. = intravenous; NGT = nasogastric tube; NSAIDs = nonsteroidal anti-inflammatory drugs.

TABLE 9: Multivariable logistic regression

Variable	Category	Multivariable odds ratio	95% CI		Wald P value
			Lower	Upper	
PC-Respiratory	Yes	3.85	1.94	7.64	<0.001
	No	Referent			
DD-Laminitis	Yes	3.83	1.48	9.91	0.006
	No	Referent			
P24-Down	Yes	10.05	5.52	18.30	<0.001
	No	Referent			
P24-Ataxia	Yes	4.96	2.44	10.08	<0.001
	No	Referent			
P24-Nasogastric reflux	Yes	2.68	1.58	4.56	<0.001
	No	Referent			
P24-Lame	Yes	2.41	1.17	4.98	0.018
	No	Referent			
P24-Tachycardia	Yes	1.89	1.28	2.79	0.001
	No	Referent			
CPA-Peritoneal fluid	Yes	7.26	2.49	21.11	<0.001
	No	Referent			
CPA-Dehydration	Yes	2.34	1.51	3.63	<0.001
	No	Referent			
CPA-Hypoproteinaemia	Yes	2.27	1.27	4.08	0.006
	No	Referent			
CPA-Acid-base	Yes	1.92	1.03	3.59	0.04
	No	Referent			
CPA-Hyperfibrinogenaemia	Yes	0.58	0.38	0.87	0.009
	No	Referent			
TH-Celiotomy	Yes	2.11	1.21	3.70	0.009
	No	Referent			
TH-i.v. NSAIDs	Yes	0.61	0.07	0.93	0.022
	No	Referent			
TH-Bandage	Yes	0.15	0.03	0.69	0.014
	No	Referent			

PC = presenting complaint; DD = differential diagnosis; P24 = problems during the initial 24 h following admission; CPA = clinical pathology abnormalities; TH = therapy or therapeutic-related procedures.

TABLE 10: Select univariable analysis for gastrointestinal cases

Variable	Category	Nonsurvivors n (%)	Survivors n (%)	Univariable odds ratio	95% CI		Wald P value
					Lower	Upper	
P24-Anorexia	Yes	11 (42)	15 (58)	2.44	1.08	5.48	0.03
	No	109 (23)	362 (77)	Referent			
P24-Diarrhoea	Yes	21 (31)	47 (69)	1.49	0.85	2.62	0.16
	No	99 (23)	330 (77)	Referent			
P24-Down	Yes	15 (79)	4 (21)	13.32	4.16	42.65	<0.001
	No	105 (22)	373 (78)	Referent			
P24-Fever	Yes	24 (28)	63 (72)	1.25	0.74	2.1	0.41
	No	96 (23)	314 (77)	Referent			
P24-Nasogastric reflux	Yes	38 (38)	61 (62)	2.4	1.49	3.88	<0.001
	No	82 (21)	316 (79)	Referent			
P24-Tachycardia	Yes	62 (35)	115 (65)	2.44	1.59	3.74	<0.001
	No	58 (18)	262 (82)	Referent			
P24-Tachypnoea	Yes	24 (48)	26 (52)	3.38	1.83	6.21	<0.001
	No	96 (21)	351 (79)	Referent			
CPA-Acid-base	Yes	23 (53)	20 (47)	4.23	2.2	8.15	<0.001
	No	97 (21)	357 (79)	Referent			
CPA-Azotemia	Yes	33 (34)	64 (66)	1.86	1.14	3.02	0.01
	No	87 (22)	313 (78)	Referent			
CPA-Coagulopathy	Yes	3 (60)	2 (40)	4.81	0.79	29.36	0.06
	No	117 (24)	375 (76)	Referent			
CPA-Dehydration	Yes	59 (41)	86 (59)	3.27	2.1	5.11	<0.001
	No	61 (17)	291 (83)	Referent			
CPA-Electrolytes	Yes	38 (42)	53 (58)	2.83	1.73	4.63	<0.001
	No	82 (20)	324 (80)	Referent			
CPA-Glucose	Yes	14 (41)	20 (59)	2.36	1.15	4.85	0.02
	No	106 (23)	357 (77)	Referent			
CPA-Hypoproteinaemia	Yes	23 (42)	32 (58)	2.56	1.42	4.6	0.001
	No	97 (22)	345 (78)	Referent			
CPA-Hyperlactataemia	Yes	34 (39)	54 (61)	2.36	1.44	3.89	<0.001
	No	86 (21)	323 (79)	Referent			
CPA-Leucopenia	Yes	31 (44)	40 (56)	2.93	1.72	5	<0.001
	No	89 (21)	337 (79)	Referent			
CPA-Liver enzymes	Yes	2 (14)	12 (86)	0.52	0.11	2.34	0.38
	No	118 (24)	365 (76)	Referent			
CPA-Peritoneal fluid	Yes	13 (72)	5 (28)	9.04	3.07	26.63	<0.001
	No	107 (22)	372 (78)	Referent			
TH-Anastomosis	Yes	4 (19)	17 (81)	0.73	0.24	2.22	0.58
	No	116 (24)	360 (76)	Referent			
TH-Celiotomy	Yes	36 (26)	102 (74)	1.16	0.74	1.82	0.53
	No	84 (23)	275 (77)	Referent			
THN-Plasma	Yes	22 (36)	39 (64)	1.95	1.1	3.45	0.02
	No	98 (22)	338 (78)	Referent			

P24 = problems during the initial 24 h following admission; CPA = clinical pathology abnormalities; TH = therapy or therapeutic-related procedures.