**Supplementary Table 2.**

Categorical variables investigated for association with the risk of postoperative death

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | Category | Descriptive dataNo. (%) | Coefficient | Standard error | Hazard ratio | 95% confidence interval of the hazard ratio | LRT *p* value | % of missing data |
| Animal breed | TB / TBX  | 86 (29.7) | Ref. |  |  |  |  | 9.12 |
| WB / WBX  | 26 (9.0) | 0.24 | 0.36 | 1.27 | 0.63–2.57 |  |  |
| Draft / Cob | 71 (24.57) | 0.14 | 0.38 | 1.15 | 0.66–1.99 |  |  |
| Pony | 50 (17.30) | −0.15 | 0.33 | 0.86 | 0.45–1.65 |  |  |
| Other | 56 (19.38) | 0.036 | 0.3 | 1.04 | 0.58–1.87 | 0.88 |  |
| Sex | Female | 108 (34.0) | Ref.  |  |  |  |  | 0.0 |
| Male | 210 (66.04) | 0.4 | 0.22 | 1.5 | 0.97–2.3 | 0.06 |  |
| Surgery performed out of hours  | No | 111 (35.016) | Ref. |  |  |  |  | 0.31 |
| Yes | 206 (65.0) | −0.18 | 0.2 | 0.8 | 0.6–1.24 | 0.37 |  |
| Season of admission  | Spring | 88 (27.67) | Ref. |  |  |  |  | 0.0 |
| Summer | 77 (24.21) | −0.05 | 0.27 | 0.95 | 0.55–1.63 |  |  |
| Autumn | 92 (28.93) | −0.12 | 0.26 | 0.88 | 0.53–1.5 |  |  |
| Winter | 61 (19.18) | −0.07 | 0.28 | 0.93 | 0.53–1.6 | 0.97 |  |
| Reflux on admission | No | 184 (75.41) | Ref. |  |  |  |  | 23.3 |
| Yes | 60 (24.60) | 0.44 | 0.24 | 1.55 | 0.97–2.5 | 0.07 |  |
| Guaiacol glycerine ether for anaesthesia induction  | No | 288 (90.57) | Ref. |  |  |  |  | 0.0 |
| Yes  | 30 (9.43) | −0.4 | 0.4 | 0.67 | 0.3–1.5 | 0.28 |  |
| Thiopentone for anaesthesia induction | No | 279 (87.74) | Ref. |  |  |  |  |  |
| Yes | 39 (12.26) | −0.026 | 0.3 | 0.97 | 0.53–1.78 | 0.93 |  |
| Ketamine-based anaesthesia induction | No | 34 (10.7) | Ref. |  |  |  |  |  |
| Yes | 284 (39.31) | 0.05 | 0.3 | 1.05 | 0.55–2.02 | 0.88 |  |
| Anaesthetic inhalation agent | Sevoflurane | 65 (21.52) | Ref. |  |  |  |  | 5.03 |
| Halothane | 11 (3.64) | −0.33 | 0.61 | 0.7 | 0.22–2.4 |  |  |
| Isoflurane | 226 (74.83) | −0.19 | 0.23 | 0.83 | 0.52–1.31 | 0.68 |  |
| Lidocaine during anaesthesia | No | 182 (62.12) | Ref. |  |  |  |  | 7.86 |
| Yes  | 111 (37.88) | −0.08 | 0.2 | 0.92 | 0.6–1.4 | 0.72 |  |
| Small intestinal anastomosis | No | 147 (46.23) | Ref. |  |  |  |  | 0.0 |
| All side to side anastomoses | 61 (19.18) | 0.63 | 0.25 | 1.9 | 1.14–3.1 |  |  |
| All end to end anastomoses | 110 (34.6) | 0.47 | 0.23 | 1.6 | 1.02–2.5 | 0.02 |  |
| Side to side small intestine anastomosis | No  | 257 (80.82) | Ref. |  |  |  |  | 0.0 |
| Yes  | 61 (19.18) | 0.4 | 0.2 | 1.5 | 0.97–2.3 | 0.08 |  |
| Resection | No | 150 (47.17) | Ref. |  |  |  |  | 0.0 |
| Yes | 168 (52.83) | 0.6 | 0.2 | 1.77 | 1.2–2.6 | 0.004 |  |
| Pelvic flexure enterotomy | No | 267 (84.76) | Ref. |  |  |  |  | 0.94 |
| Yes | 48 (15.24) | 0.47 | 0.24 | 1.6 | 0.99–2.6 | 0.06 |  |
| Pedunculated lipoma obstruction | No | 227 (71.38) | Ref. |  |  |  |  | 0.0 |
| Yes | 91 (28.62) | 0.03 | 0.2 | 1.03 | 0.68–1.6 | 0.88 |  |
| Idiopathic focal eosinophilic enteritis | No | 275 (86.48) | Ref.  |  |  |  |  | 0.0 |
| Yes | 43 (13.52) | −0.61 | 0.35 | 0.55 | 0.28–1.08 | 0.06 |  |
| Epiploic foramen entrapment | No  | 275 (86.48) | Ref.  |  |  |  |  |  |
| Yes  | 43 (13.52) | 0.59 | 0.24 | 1.8 | 1.12–2.9 | 0.02 | 0.0 |
| Repeat laparotomy | No | 289 (90.88) | Ref.  |  |  |  |  |  |
| Yes  | 29 (9.12) | 1 | 0.25 | 2.7 | 1.65–4.5 | <0.001 |  |
| Postoperative reflux | No | 240 (75.47) | Ref. |  |  |  |  | 0.0 |
| Yes | 78 (24.52) | 0.87 | 0.2 | 2.4 | 1.62–3.6 | <0.001 |  |
| Postoperative colic | No | 168 (52.83) | Ref. |  |  |  |  | 0.0 |
| Yes | 150 (47.17) | 0.5 | 0.2 | 1.65 | 1.1–2.4 | 0.01 |  |
| Diarrhoea | No | 299 (94.03) | Ref. |  |  |  |  | 0.0 |
| Yes | 19 (5.97) | 0.014 | 0.4 | 1.014 | 0.47–2.18 | 0.97 |  |
| Purulent incisional discharge | No | 234 (73.58) | Ref.  |  |  |  |  | 0.0 |
| Yes  | 84 (26.42) | −0.052 | 0.24 | 0.56 | 0.37–0.96 | 0.026 |  |
| Postoperative lidocaine treatment | No | 204 (65.18) | Ref. |  |  |  |  | 1.6 |
| Yes | 109 (34.82) | 0.37 | 0.19 | 1.45 | 0.97–2.13 | 0.06 |  |
| Postoperative lidocaine plus metoclopramide  | No | 305 (97.44) | Ref. |  |  |  |  | 1.6 |
| Yes | 8 (2.56) | 1.66 | 0.37 | 5.24 | 2.52–10.91 | <0.001 |  |
| Admission years | 2012–2014 | 138 (43.4) | Ref. |  |  |  |  | 0.0 |
| 2004–2006 | 180 (56.6) | −0.053 | 0.19 | 0.95 | 0.65–1.39 | 0.79 |  |

Data were collected from 318 horses that survived following general anaesthesia for the treatment of small intestinal lesions and investigated for association with the risk of postoperative death using a univariable Cox proportional hazards model. LRT = likelihood ratio test, TB/TBX = Thoroughbred/Thoroughbred cross, WB/WBX = Warmblood/Warmblood Cross, Ref. = reference category, Season of admission classified as spring (March – May), summer (June – August), autumn (September – November) and winter (December – February), Surgery performed out of hours was defined as surgery performed between the hours of 5pm – 9am Monday – Friday and at any time over the days of Saturday or Sunday. Descriptive data are presented as numbers and percentages