## **Equine Colic**

## Post-Operative Complications

Complication	Cause		Treatment
1	Table 19.1 Common causes of fever following ventral midline celiotomy for treatment of colic with recommended initial diagnostic tests.		
	Common causes of fever	Recommended initial diagnostic tests	
	Endotoxemia/SIRS	Physical examination; CBC	
	Diarrhea/colitis	Physical examination; abdominal sonographic examination; CBC	
	Peritonitis	Abdominal sonographic examination; abdominocentesis/ peritoneal fluid analysis	
Fever	Thrombophlebitis	Remove IV catheter; physical examination; sonographic evaluation of affected vein	Treat individual causes
	Bacterial pneumonia or pleuropneumonia	Auscultation of thorax with rebreathing examination; thoracic sonographic examination; TTW	
	Respiratory viral disease	Auscultation of thorax with rebreathing examination; nasal swabs for virus isolation	
	Incisional infection	Physical examination; sonographicevaluation of incision	
En datamania/			- Administration of endotoxin
Endotoxaemia/ Systemic			binding agents such a polymyxin B IV
Inflammatory	Mucosal injury e.g. o		- IV fluid therapy
Response	results in an increase	e in LPS absorption.	- NSAIDs. E.g. Flunixin
Syndrome			meglumine
	The combination of trauma to normal mesothelial surfaces, ischemia reperfusion injury, disrupted fibrinolytic activity, and presence of peritoneal		Laparoscopy can be used for diagnosis and
Adhesion			
Formation			treatment of postoperative
	inflammation likely contribute to the		intraperitoneal adhesions.
	development of adhesions,		•
	Horses with sand and feed impactions of		
Diarrhoea	the large colon and those with colonic		- Supportive therapy to stabilize
	volvulus seem to be at higher		hemodynamic parameters
	risk for the development of postoperative diarrhoea.		- Antibiotics
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Recurrent Colic	Postoperative colic is the most commonly reported complication in horses undergoing celiotomy for treatment of gastrointestinal disease	Use of NSAIDs, $\alpha$ -2 agonists, IV lidocaine, and opioid analgesics.
Post-Operative Ileus	Fluid sequestration and loss of motility within the duodenum and jejunum with subsequent gastric fluid accumulation accompanied by a need to decompress the stomach every few hours via nasogastric intubation. Risk factors include prolonged surgical and Anaesthetic time, presence of small intestinal lesions, and high admission PCV, intestinal ischemia, distention, peritonitis, electrolyte imbalances, endotoxemia, traumatic handling of the intestine, resection and anastomosis, and general anaesthesia	Supportive care: Gastric decompression IV fluids and colloids, Electrolyte support, acid-base monitoring, anti-inflammatory therapy, and antimicrobials when indicated. Partial parenteral nutrition
Septic Peritonitis	Anastomosis leakage, nonviable intestine, salmonellosis, and severe incisional infection or pre-existing septic peritonitis.	Re-laparotomy once the patient is hemodynamically stabilized.
Incisional Infection	Dehiscence, infection, and herniation	Acute dehiscence requires general anaesthesia, lavage, and debridement of the dehisced incision, and the body wall should be repaired with 18-gauge stainless steel wire in an interrupted vertical mattress pattern with stents Treatment for incisional infection should consist of establishing ventral drainage which often requires removal of selected skin staples or sutures. Antimicrobials can be used depending on severity of infection