

# The Equine Hospital Manual

Kevin Corley, Jennifer Stephen

## **1. Procedures In the Adult Horse.**

1.1 – Endotracheal Intubation.

Kevin Corley.

1.2 – Cardiopulmonary Resuscitation.

Kevin Corley.

1.3 – Physical Examination.

Anna Hammond.

1.4 – Examination Per Rectum.

Emma Rowe.

1.5 – Collection Of Blood Samples and Intravenous Injection.

Kevin Corley.

1.6 – Intramuscular Injections.

Jennifer Stephen.

1.7 – Passage of A Nasogastric Tube and Indwelling Nasogastric Tube.

Bettina Dunkel.

1.8 – Abdominocentesis.

Jennifer Stephen.

1.9 – Peritoneal Lavage.

Emma Rowe.

1.10 – Gastroscopy.

Tim Brazil.

1.11 – Percutaneous Trocharisation.

Emma Rowe.

1.12 – Rectal Mucosal Biopsy.

Anna Hammond.

1.13 – Liver Biopsy.

Kevin Corley.

1.14 – Jugular Catheterisation.

Kevin Corley of the Cephalic and Lateral Thoracic Veins.

Kevin Corley.

1.16 – Fluid Administration Sets.

Kevin Corley.

1.17 – Electronic Infusion Pumps and Syringe Drivers.

Kevin Corley.

1.18 – Blood and Plasma Transfusion.

Anna Hammond.

1.19 – Collection of Arterial Blood Gas Samples.

Harold Mckenzie.

1.20 – Arterial Catheterisation.

Harold Mckenzie.

1.21 – Indirect Arterial Blood Pressure Measurement.

Kevin Corley.

1.22 – Direct Arterial Blood Pressure Measurement.

Kevin Corley.

1.23 – Central Venous Pressure Measurement.

Mary Durando.

1.24 – Electrocardiography.

Mary Durando.

1.25 – Echocardiography.

Mary Durando.

1.26 – Cardiac Output Measurement.

Mary Durando.

1.27 – Pericardiocentesis.

Mary Durando.

1.28 – Emergency Tracheotomy.

Jennifer Stephen.

1.29 – Intra-Nasal Oxygen Administration.

Harold Mckenzie.

1.30 – Nebulisation.

Harold Mckenzie.

- 1.31 – Endoscopy Of The Respiratory Tract.  
Jennifer Stephen.
- 1.32 – Endoscopy Of The Guttural Pouch.  
Harold Mckenzie.
- 1.33 – Tracheal Aspiration.  
Harold Mckenzie.
- 1.34 – Bronchoalveolar Lavage.  
Harold Mckenzie.
- 1.35 – Pleurocentesis.  
Harold Mckenzie.
- 1.36 – Evacuation Of Pneumothorax.  
Harold Mckenzie.
- 1.37 – Lung Biopsy.  
Harold Mckenzie.
- 1.38 – Sinocentesis.  
Jennifer Stephen.
- 1.39 – Lumbosacral Spinal Fluid Collection.  
Martin Furr.
- 1.40 – Atlanto-Occipital Cerebrospinal Fluid Collection.  
Martin Furr.
- 1.41 – Epidural Injection And Catheterisation.  
Lydia Donaldson.
- 1.42 – Urinary Catheterisation.  
Anna Hollis.
- 1.43 – Endoscopy Of The Bladder And Ureters.  
Anna Hollis.
- 1.44 – Endometrial Biopsy.  
Anna Hollis.
- 1.45 – Uterine Lavage.  
Anna Hollis.
- 1.46 – Renal Biopsy.  
Anna Hollis.
- 1.47 – Bone Marrow Biopsy.  
Roger Smith.
- 1.48 – Regional Anaesthesia of the Eye.  
Mary Utter.
- 1.49 – Placement of A Sub-Palpebral Lavage Catheter.  
Mary Utter.
- 1.50 – Regional Analgesia of the Limb.  
Jennifer Stephen.
- 1.51 – Bandaging of the Limb.  
Louise Southwood.
- 1.52 – Application of Splints.  
Jennifer Stephen.
- 1.53 – Application of a Tourniquet and Regional Limb Perfusion.  
Jennifer Stephen.
- 1.54 – Bandaging of the Head.  
Louise Southwood.
- 1.55 – Muscle Biopsy.  
Nicola Menzies-Gow.
- 1.56 – Suture Materials and Suture Patterns for Skin Closure.  
Jennifer Stephen.
- 2. Procedures in the Neonatal Foal.**  
Kevin Corley.
- 2.1 – Nasotracheal and Orotracheal Intubation.
- 2.2 – Cardiopulmonary Resuscitation.
- 2.3 – Mechanical Ventilation.
- 2.4 – Restraint of the Neonatal Foal.
- 2.5 – Placing an Indwelling Nasogastric Tube.
- 2.6 – Jugular Vein Catheterisation.
- 2.7 – Indirect Blood Pressure Measurement.
- 2.8 – Collection of Arterial Blood Gas / Arterial Catheterisation.
- 2.9 – Placement of a Urinary Catheter.
- 2.10 – Ultrasonography of the Umbilicus.

### **3. Hospital Design and Organisation.**

3.1 – Designing and Building an Equine Hospital.

Tim Greet.

3.2 – Diagnostic Imaging.

Renate Weller, Fiona Ripley, Nick Bolas and Jennifer Stephen.

3.3 – Biosecurity for Equine Hospitals: Protecting the Patient and the Hospital.

Helen Wheeler Aceto and Barbara Dallap Schaefer.

3.4 – Hospital Forms.

Veronica Roberts.

### **4. Anaesthesia.**

Lydia Donaldson.

4.1 – General Anaesthesia.

4.2 – Anaesthesia for some Specific Situations.

4.3 – Total Intravenous Anaesthesia (Tiva).

4.4 – Standing Surgery Sedation and Anaesthesia.

4.5 – Post-Anaesthetic Morbidity.

### **5. Nutritional Management of the Hospitalised Horse.**

Meri Stratton-Phelps.

5.1 – The Adult Horse.

5.2 – Nutrition Management of the Hospitalised Foal.

### **6. Common Treatments.**

6.1 – Standing Sedation.

Lydia Donaldson.

6.2 – Pain Management in the Hospitalised Horse.

Lydia Donaldson.

6.3 – Antimicrobial Therapy.

Steeve Giguère.

6.4 – Aerosolised Antimicrobials.

Harold Mckenzie.

6.5 – Fluid Therapy.

Kevin Corley.

### **7. Common Problems Encountered in the Hospitalised Horse.**

7.1 – Unexplained Fever.

Veronica Roberts And Shaun Mckane.

7.2 – Thrombophlebitis.

Harold Mckenzie.

7.3 – Inappetence.

Bettina Dunkel.

7.4 – Unwillingness To Drink.

Harold Mckenzie.

7.5 – Hyperlipaemia.

Bettina Dunkel.

### **8. Monitoring and Treating the Coagulation System.**

8.1 – Monitoring the Coagulation System.

Luis Monreal.

8.2 – Management of Horses With Coagulopathies.

Luis Monreal And Escolástico Aguilera.

### **9. Monitoring and Treating the Cardiovascular System.**

9.1 – Monitoring the Cardiovascular System.

Mary Durando and Kevin Corley.

9.2 – Treating the Cardiovascular System.

Mary Durando and Kevin Corley.

### **10. Monitoring and Treating the Respiratory System.**

Harold Mckenzie.

10.1 – Monitoring the Respiratory System.

10.2 – Management of Horses with Respiratory Disorders.

### **11. Monitoring and Treating the Gastrointestinal System.**

11.1 – Monitoring the Gastrointestinal System.

Emma Rowe, Jennifer Stephen, Kevin Corley and Tim Brazil.

11.2 – Management of Horses with Gastrointestinal Disorders.

Emma Rowe.

### **12. Monitoring and Treating the Liver.**

Andy Durham.

12.1 – Monitoring the Hepatic System.

12.2 – Management of Horses with Hepatic Disorders.

### **13. Monitoring and Treating the Urogenital System.**

Anna Hollis and Kevin Corley.

13.1 – Monitoring the Urogenital System.

13.2 – Treating the Urogenital System.

### **14. Monitoring and Treating the Neurological System.**

Martin Furr.

14.1 – Monitoring the Neurological System.

14.2 – Management of Horses with Neurologic Disorders.

### **15. Monitoring and Treating Common Musculoskeletal Problems in Hospitalised Horses.**

15.1 – Monitoring the Musculoskeletal System.

Louise Southwood.

15.2 – Laminitis.

15.2.1 – Detection And Treatment of Laminitis.

Louise Southwood.

15.2.2 – Supporting the Laminitic Foot.

Nicola Menzies-Gow.

15.3 – Biochemical Monitoring Of the Muscles.

Nicola Menzies-Gow.

15.4. Management Of Rhabdomyolysis And Myopathy.

Nicola Menzies-Gow.

15.5 – Monitoring Horses with Implants.

Louise Southwood.

15.6 – Monitoring Surgical Incisions.

Ehud Eliashar.

15.7 – Ultrasonography of Surgical Incisions.

Ehud Eliashar.

15.8 – Management of Surgical Site Infections.

Louise Southwood.

15.9 – External Coaptation (Splinting).

Jennifer Stephen.

15.10 – Application of Casts.

Ehud Eliashar.

### **16. Management of Horses with Problems of the Integument.**

16.1 – Wound Management in Hospitalised Horses.

Louise Southwood.

16.2 – Simple Skin Grafting Techniques.

Jennifer Stephen.

### **17. Monitoring and Treatment of Eyes.**

Mary Utter.

17.1 – Ophthalmic Examination.

17.2 – Management of Horses with Specific Ophthalmic Conditions.

17.3 – Management of Ocular Problems in the Neonatal Foal.

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Bairbre Sharkey and Patrick Herbots.

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18.3 – Treatment Techniques.

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19.7 – Peritoneal Fluid Analysis.

19.8 – Transtracheal and Bronchoalveolar Fluid Analysis.

Harold Mckenzie.

19.9 – Normal Values for Pleural Fluid.

19.10 – Normal Values for Cerebrospinal Fluid.

Martin Furr.

19.11 – Normal Values for Urine and Urine Production.

19.12 – Normal and Abnormal Values for Joint Fluid.

19.13 – Normal Haemodynamics of Adults and Foals.

19.14 – Diagnosis of Pituitary Pars Intermedia Dysfunction (Cushing's Disease).

Jocelyn Habershon-Butcher.  
19.15 – The Oral Glucose Tolerance Test.  
Jocelyn Habershon-Butcher.  
19.16 – Ageing Horses by Dentition.  
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