Table of contents

1. Procedures In the Adult Horse.

1.12 – Rectal Mucosal Biopsy.

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.

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.

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.

Jennifer Stephen.

1.51 – Bandaging of the Limb.

2.3 – Mechanical Ventilation.

2.4 – Restraint of the Neonatal Foal.

2.6 – Jugular Vein Catheterisation.

2.5 – Placing an Indwelling Nasogastric Tube.

2.7 – Indirect Blood Pressure Measurement.

2.9 – Placement of a Urinary Catheter.

2.10 – Ultrasonography of the Umbilicus.

 $2.8-Collection\ of\ Arterial\ Blood\ Gas\ /\ Arterial\ Catheterisation.$

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 Schaer.

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.

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.

6.3 – Antimicrobial Therapy.

6.4 – Aerosolised Antimicrobials.

Steeve Giguère.

Harold Mckenzie.

6.5 – Fluid Therapy.

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.

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.

Louise Southwood.

15.2 – Laminitis.

Louise Southwood.

Nicola Menzies-Gow.

15.2.1 – Detection And Treatment of Laminitis.

15.3 – Biochemical Monitoring Of the Muscles.

 $15.2.2-Supporting \ the \ Laminitic \ Foot.$

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.

18. Physiotherapy.

Bairbre Sharkey and Patrick Herbots.

- 18.1 Introduction.
- 18.2 Indications for Physiotherapy.
- 18.3 Treatment Techniques.
- 18.4 Conclusion.

19. Appendices.

- 19.1 Drug Doses.
- 19.2 Normal Physiological Values.
- 19.3 Anticoagulants Needed for Various Blood Tests.
- 19.4 Haematology.
- 19.5 Biochemistry and Electrolytes.
- 19.6 Blood Gas Analysis.
- 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.