

TABLE OF CONTENTS

A Guide Book of Camel Surgery

PREFACE v

ACKNOWLEDGEMENT vii

Chapter 1 : Presurgical Considerations

1 Preoperative Evaluation 1

2 Surgical Judgment 1

3 Asepsis and Antisepsis 1

4 Preparation of Surgical Site 2

5 Draping the Surgery Site 2

6 Postoperative Infection and Role of Antibiotics 3

Chapter 2 : Suture Materials and Suture Needles

A Suture materials 6

B Suture Needles 9

Chapter 3 : Suture Patterns and Ligatures

Basic Suture Patterns 11

Suture Patterns For Hollow Organs 13

Ligatures 17

Chapter 4 : Instrumentation

Standard Set of Clinical Instruments 21

Preparation of Instruments 28

Chapter 5 : Operating Room Protocol

1 Opening the Packs 29

2 Scrubbing Technique 29

3 Gowning and Gloving 31

4 Operating Room Conduct 31

Chapter 6 : Restraint and Anesthesia

A Physical Restraint 37

Standing Position 37

Sternal Position 39

B Anesthesia 41

1 Local and Regional Analgesia 41

2 Analgesia, Sedation and Tranquilization 45

3 General Anesthesia 46

C Transportation of injured animals 47

Chapter 7 : Monitoring of the Surgical Patient

1 General Condition 49

2 Body Temperature 49

3 Ventilation Status 49

4 Cardiovascular Monitoring 50

5 Fluid, Electrolyte and Acid-Base Balance 50

Chapter 8 : Wound Management

Primary-Intention Healing 55

Secondary-Intention Healing 56

Tertiary-Intention Healing 57

Use of Drains and Setons 57

Chapter 9 : Left Flank Laparotomy

Standard Technique 69

Chapter 10 : Oral and Gastrointestinal Surgery

1 Injury to the Upper / Lower Lip 75

2 Injury to the Oral Commissure 77

3 Oral /Buccal Fistula 77

4 Lingual Injury 77

5 Elongated Cheek / Buccal Papillae 79

6 Dulaa (LAHA) Resection (Elective Procedure) 79

7 Impacted and/or Traumatized Dulaa 81

8 Esophagotomy 83

9 Rumenotomy 87

10 Enterotomy and Intestinal Anastomosis 89

11 Prolapse of Rectum 93

12 Atresia Ani 97

Chapter 11 : Urogenital System

A. Male Urogenital System:

1 Castration 99

2 Scrotal Bite Wounds 103

3 Hydrocele 104

4 Orchitis 104

5 Urethrostomy 105

6 Phimosis 106

7 Paraphimosis 107

8 Amputation of the Prepuce (Circumcision) 108

9 Anti-Masturbation Sutures 110

B. Female Urogenital System

1 Cesarean Section 112

2 Prolapse of Uterus 113

3 Prolapse of Vagina 117

4 Perineal Laceration 117

5 Vaginal Adhesions 120

6 Transverse Vaginal Septum 120

7 Persistent Hymen 121

8 Recto-Vaginal Fistula 122

9 Atresia Vulvi 123

Chapter 12 : Orthopedic Surgery

1 External Methods of Fracture Fixation 127

2 Internal Methods of Fracture Fixation 129

SPECIFIC FRACTURES AND DISLOCATIONS

1 Fracture of the Mandible 137

2 Actinomycosis 141

3 Fracture of the Humerus 142

4 Fracture of the Radius and Ulna 143

5 Fracture of the Metacarpus or Metatarsus 144

6 Fracture of the Phalanges 145

7 Fracture of the Femur 145

8 Fracture of the Tibia 146

9 Upward Fixation of Patella 147

10 Fracture of Os-Calsis 148

11 Fetlock Disarticulation 149

12 Dislocations 151

Chapter 13 : Surgery of the Skin and Adnexal Tissues

1 Injury to the Nostrils 153

2 Fistula of the Hump and Withers 154

3 Dermoid Cysts 157

4 Abscesses 159

5 Hernia 161

6 Amputation of Tail 162

7 Udder Amputation 163

8 Teat Fistula 166

9 Infectious Lymphadenitis 167

10 Punctured Foot 172

11 Avulsion of the Foot Pad 175

Chapter 14 : Surgery of the Eye and Ear

1 Enucleation of Eyeball 177

2 Prolapse of Iris 181

3 Injury to the Eyelids 182

4 Entropion 183

5 Ectropion 185

6 Injury to the External Ear 185

Chapter 15 : Surgical Oncology

1 Tumors of the Toe / Nail 189

2 Tumors of the Foot 193

Tumors of the Chest Pad 193

4. Tumors of the Stifle 195

5 Tumors of the Hock 196

6 Vaginal Tumors 197

7 Preputial Tumors 198

8 Tumors of the Parotid / Mandibular Region 198

Chapter 16 : Case Reports

1 A case of a massive maxillary osteoma in an old female camel 201

2. En-block surgical excision of inflamed mandibular lymph node in one year old dromedary female 203

3. A case of circumferential fibrous swelling of the distal half of right metatarsus in an adult male dromedary camel 205

4 A case of pedunculated growth on the ventral aspect of tail in a male dromedary camel 207

5 A case of lipoma on the ventral commissure of vulva in an adult dromedary camel 209

6 Testicular degeneration as a result of pressure by a large scrotal abscess in a dromedary camel 211

7 A case of multiple dermoid cysts around carpal joint in an adult male dromedary camel 213

8 Udder gangrene in a dromedary camel 215

9 Prolapse of jejunum through ruptured vaginal wall in the pregnant dromedary camel 217

10 A Case of dystocia in a dromedary camel due to hydrocephalic fetus 219

11 Injury to the foot of a female dromedary camel by a stray bullet 221

12 Plating of metacarpal fracture in a 6 month old female camel calf 223

13 Treatment of femoral fracture with intramedullary pinning in one month old female camel calf 22

14 Treatment of fracture of Radius and Ulna with bone plating in a 6 month old male camel calf 227

15 Two cases of unusual mandibular fractures in the dromedary camel 229

Appendix

Index.