TABLE OF CONTENTS – High-Quality, High-Volume Spay and Neuter and Other Shelter Surgeries

List of Contributors

Preface

Acknowledgments

Part One Clinical Techniques and Patient Care 1

Section One Peri-operative Care Associated with Spay and Neuter 3

1 Determination of Patient Sex and Spay–Neuter Status 5 Brenda Griffin

2 Disorders of Sexual Development and Common Reproductive Pathologies 27 Brenda Griffin, Sara White, and Margaret V. Root Kustritz

3 Instrumentation for Spay–Neuter 53

Amber Burton and Sara White

4 Asepsis 65 Brian A. DiGangi

5 Infectious Disease Control in Spay-Neuter Facilities 89 Sara White and Natalie Isaza

6 Strategies to Reduce Stress and Enhance Patient Comfort during the Spay–Neuter Process 103

Brenda Griffin

Section Two Anesthesia for Spay-Neuter Surgery 125

7 Principles of Anesthesia, Analgesia, Safety, and Monitoring 127 Sheilah Robertson

8 Anesthetic Protocols for Dogs and Cats 153 Sheilah Robertson

9 Special Considerations for Anesthesia of Pediatric Patients 193 Emily McCobb and Sheilah Robertson

10 Anesthetic Complications 209 *Emily McCobb*

11 Cardiopulmonary Resuscitation in Shelter Animal Practice 227 Luisito S. Pablo

Section Three Surgical Techniques for Spaying and Neutering 239

12 Dog Spay/Cat Spay 241 Philip Bushby and Sara White

13 Cesarean Section 267
Sheilah Robertson and Sara White

14 Dog Neuter/Cat Neuter 281 Philip Bushby and Sara White

15 Neutering Procedures and Considerations in Rabbits and Other Small Mammals 295

Natalie Isaza and Ramiro Isaza

16 Tattoo and Ear-Tipping Techniques for Identification of Surgically Sterilized Dogs and Cats 325

Brenda Griffin, Mark W. Bohling, and Karla Brestle

17 Complications in Spay and Neuter Surgery 339 *Mark W. Bohling*

18 Ovarian Remnant Syndrome 363
G. Robert Weedon and Margaret V. Root Kustritz

Section Four Other Surgical Procedures 371

Introduction to Other Surgical Procedures 373 *Philip Bushby*

19 Amputation 375 Joseph P. Weigel

19A Amputation: Anesthesia Supplement 387 Lydia Love

20 Surgery of the Eye 395 Susan Nelms

20A Surgery of the Eye: Anesthesia Supplement 411 *Lydia Love*

21 Rectal and Vaginal Fold Prolapse 415 Kimberly Woodruff

21A Rectal and Vaginal Fold Prolapse: Anesthesia Supplement 423 *Lydia Love*

22 Dental Extractions in a Shelter Environment 425 Diana L. Eubanks and Lydia Love

Part Two Fundamentals of HQHVSN 437

23 Fundamentals of HQHVSN 439 Sara White

Section Five Spay-Neuter Population Medicine 453

24 Sterilization Programs and Population Control 455 Margaret Slater and Emily Weiss

25 Community Cats 477 Stephanie Janeczko

26 Influence of Spay-Neuter Timing on Health 509

G. Robert Weedon, Margaret V. Root Kustritz, and Philip Bushby

27 Non-surgical Contraception: The State of the Field 521 Jessica Hekman

Section Six Human Resources and Management 529

28 Starting with Why: Know Your Purpose and Name Your Bottom Lines 531 BJ Rogers

29 Hiring for Impact, Hiring for Culture 537 *BJ Rogers*

30 Recruiting and Hiring HQHVSN Surgeons 545 James Weedon

31 Health Considerations for the HQHVSN Surgeon 553 Sara White

Section Seven Clinic Models 575

32 Stationary Clinics 577 Karla Brestle

33 Profile of the Mobile Spay–Neuter Clinic 589 *Kathleen V. Makolinski*

34 MASH Clinics 601 Sara White

35 Feral and Free-Roaming Cat Clinics 615 Christine Wilford

36 In-Clinic Clinics 627 Ruth Steinberger

Index 633.