

Curriculum Vitae

**PATRICK M. McCUE, DVM, PhD**

**Diplomate, American College of Theriogenologists**

**CURRENT ADDRESS**      Department of Clinical Sciences  
College of Veterinary Medicine and Biomedical Sciences  
Colorado State University  
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**ACADEMIC EMPLOYMENT**

2000-                      Associate Professor  
Department of Clinical Sciences  
College of Veterinary Medicine and Biomedical Sciences  
Colorado State University  
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1994-2000                Assistant Professor  
Department of Clinical Sciences  
College of Veterinary Medicine and Biomedical Sciences  
Colorado State University  
Ft. Collins, CO 80523

1993-1994                Lecturer  
Department of Reproduction  
School of Veterinary Medicine  
University of California, Davis

1992-1993                Associate In  
Department of Reproduction  
School of Veterinary Medicine  
University of California, Davis

1990                        Adjunct Instructor  
Department of Reproduction  
School of Veterinary Medicine  
University of California, Davis

1989-1992                Postgraduate Researcher  
Department of Reproduction  
School of Veterinary Medicine  
University of California, Davis

## **POSTGRADUATE TRAINING**

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| 1987-1989 | Residency, Equine Reproduction<br>Veterinary Medical Teaching Hospital<br>School of Veterinary Medicine<br>University of California, Davis<br>Davis, California |
| 1986-1987 | Internship, Large Animal Medicine and Surgery<br>New Bolton Center<br>University of Pennsylvania<br>Kennett Square, Pennsylvania                                |

## **EDUCATION**

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|-----------|---|
| 1989-1993 | PhD: Comparative Pathology<br>School of Veterinary Medicine<br>University of California, Davis<br>Davis, California |
| 1982-1986 | DVM<br>School of Veterinary Medicine<br>University of California, Davis<br>Davis, California                        |
| 1978-1979 | Graduate: Zoology (no degree)<br>University of Montana<br>Missoula, Montana   |
| 1974-1978 | Undergraduate: BA in Biology<br>State University of New York<br>Potsdam, New York                                   |

## **PUBLICATIONS**

1. McCue, PM and TP O'Farrell. Hematologic values of the endangered San Joaquin kit fox, *Vulpes macrotis mutica*. *Journal of Wildlife Diseases* 1987; 23(1): 144-151.
2. McCue, PM and TP O'Farrell. Serologic survey for selected diseases in the endangered San Joaquin kit fox (*Vulpes macrotis mutica*). *Journal of Wildlife Diseases* 1988; 24(2): 274-281.
3. McCue, PM and MS Spensley. Enterolithiasis as the cause of recurrent colic in a burro. *Equine Practice* 1988;10(8): 15-16.

4. McCue, PM. Equine leucoencephalomalacia. *Compendium on Continuing Education for the Practicing Veterinarian* 1989;11(5): 646-650.
5. McCue, PM, DE Freeman and WJ Donawick. Guttural pouch tympany: 15 cases (1977-1986). *Journal of the American Veterinary Medical Association* 1989;194(12):17611-1763.
6. McCue, PM and DW Wilson. Equine mastitis - a review of 28 cases. *Equine Veterinary Journal* 1989;21(5): 351-353.
7. McCue, PM and DW Wilson. Urinary bladder rupture as a sequelae to obstructive urethral urolithiasis in a gelding. *Equine Practice* 1989;9: 912-914.
8. Pashen, RL, C Downie and PM McCue. Attempts to use progesterone treated XO mares as embryo transfer recipients. *Equine Veterinary Journal, Suppl* 1989;8: 59-61.
9. McCue, PM and JP Hughes. Effect of postpartum uterine lavage on foal heat conception rate. *Theriogenology* 1990;33(5):1121-1129.
10. McCue, PM, JP Hughes, SS Jang and EL Biberstein. Antimicrobial susceptibility patterns for aerobic bacterial isolates from the uterus of mares. *California Veterinarian*. 1991;45(1): 25-28.
11. McCue, PM, MHT Troedsson, IKM Liu, GH Stabenfeldt, JP Hughes and BL Lasley. Follicular and endocrine responses of anoestrous mares to administration of native GnRH or a GnRH agonist. *Journal of Reproduction and Fertility*, 1991;Suppl 44: 227-233.
12. McCue, PM, MM LeBlanc, GY Akita, JR Pascoe, DM Witherspoon and GH Stabenfeldt. Granulosa cell tumors in two cycling mares. *Journal of Equine Veterinary Science* 1991;11: 281-282.
13. McCue, PM, SK Hietala, MS Spensley, M Stillian, J Mihalyi and JP Hughes. Prevalence of equine viral arteritis in California horses. *California Veterinarian* 1991;45(2):24-26.
14. McCue, PM and TP O'Farrell. Serum chemistry values of the endangered San Joaquin kit fox, (*Vulpes macrotis mutica*). *Journal of Wildlife Diseases* 1992;28(3): 414-418.
15. Linford, RL, PM McCue, S Montavon and BL Lasley. Long-term cannulation of the ovarian vein in the mare. *American Journal of Veterinary Research* 1992;53(9): 1589-1593.

16. McCue, PM, NJ Carney, JP Hughes, J Rivier, W Vale and BL Lasley. Ovulation and embryo recovery rates following immunization of mares against an inhibin alpha-subunit fragment. *Theriogenology* 1992;38: 823-831.
17. McCue, P.M., R.C. Warren, R. D. Appel, G.H. Stabenfeldt, J.P. Hughes and B.L. Lasley. Pregnancy rates following administration of GnRH to anestrus mares. *Journal of Equine Veterinary Science* 1992;12(1):21-23.
18. McCue, P.M. Equine granulosa cell tumors. *Proceedings: American Association of Equine Practitioners* 1992; pp. 587-593.
19. McCue, PM, JP Hughes and BL Lasley. Effect on ovulation rate of passive immunisation of mares against inhibin. *Equine Veterinary Journal*, 1993;Suppl 15: 103-106.
20. Eisenhauer, KM, PM McCue, DK Naydan, Y Osawa and JF Roser. Localization of aromatase in equine Leydig cells. *Domestic Animal Endocrinology* 1994;11: 291-298.
21. Roser, JF, PM McCue and E. Hoyer. Inhibin activity in the mare and stallion. *Domestic Animal Endocrinology* 1994;11:87-100.
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23. McCue, PM. Superovulation. *Vet Clinics of North America* 1996;12(1): 1-11.
24. Daels, P.F., P.M. McCue, M.J. DeMoraes and J.P. Hughes. Persistence of the luteal phase following ovulation during altrenogest treatment of mares. *Theriogenology* 1996;46: 799-811.
25. Squires EL, Badzinski, S.L., R.P. Amman, P.M. McCue, and T.M. Nett. Effects of Altrenogest on total scrotal width, seminal characteristics, concentrations of LH and testosterone and sexual behavior of stallions. *Theriogenology* 1997;48: 313-328.
26. McCue, P.M., S.S. Lemons, E.L. Squires and D.K. Vanderwall. Efficacy of Synovex-S<sup>®</sup> implants in suppression of estrus in the mare. *J Eq Vet Sci* 1997;17: 327-329.
27. McCue, P.M., D.K. Vanderwall and E.L. Squires. Fetal mummification in a mare. *J Eq Vet Sci* 1997;17: 267-269.

28. Standley, W.G. and P.M. McCue. Prevalence of antibodies against selected diseases in San Joaquin kit foxes at Camp Roberts, California. *California Fish and Game* 1997;83(1): 30-37.
29. Young, C.A., E.L. Squires, G.E. Seidel, Jr., H. Kato and P.M. McCue. Cryopreservation procedures for day 7-8 equine embryos. *Eq Vet Journal* 1997;Suppl 25:98-102.
30. McCue, P.M. Review of ovarian abnormalities in the mare. *Proceedings 44<sup>th</sup> Annual AAEP Convention*, 1998, pp. 125-133.
31. McCue, P.M. Neoplasia of the female reproductive tract. *Vet Clinics of North America: Equine Practice* 1998;14: 505-515.
32. Squires, E.L., J.K. Brubaker, P.M. McCue and B.W. Pickett. Effect of sperm number and frequency of insemination on fertility of mares inseminated with cooled semen. *Theriogenology* 1998;49: 743-749.
33. McCue, P.M., J. Thayer, E.L. Squires, S.P. Brinsko and D.K. Vanderwall. Twin pregnancies following transfer of single embryos in three mares: a case report. *J. Equine Vet Sci* 1998;18:832-834.
34. Nickerson, K.C., P.M. McCue, E.L. Squires. Comparison of two dosage regimens of the GnRH agonist deslorelin acetate on inducing ovulation in seasonal anestrous mares. *J Eq Vet Sci* 1998;18: 121-124.
35. Leipold S., J. Graham, E.L. Squires, P.M. McCue, S.P. Brinsko and D.K. Vanderwall. Effect of spermatozoal number on fertility of frozen equine semen. *Theriogenology* 1998;49: 1537-1544.
36. Tanner MK, AM Swinker, JL Traub-Dargatz, LA Stiffler, PM McCue, DK Vanderwall, DE Johnson and LM Vap. Respiratory and environmental effects of recycled phone book paper versus sawdust as bedding for horses. *J Eq Vet Sci* 1998;18:468-476.
37. Squires, E.L., P.M. McCue and D. Vanderwall. The current status of equine embryo transfer. *Theriogenology* 1999;51:91-104.
38. Tillotson, K., P.M. McCue, D.E. Granstrom, D.A. Dargatz, M.O. Smith and J. L. Traub-Dargatz. Seroprevalence of antibodies to *Sarcocystis neurona* in horses residing in Northern Colorado. *J. Equine Vet Sci* 1999;19:122-126.
39. McCue, PM, JJ Fleury, DJ Denniston, JK Graham, and EL Squires. Oviductal insemination in mares. *J. Reprod Fertility*, 2000;Suppl. 56:499-502.

40. Schmidt, RL, H Kato, LH Herickoff, JL Schenk, PM McCue, YG Chung and EL Squires. Effects of follicular fluid or progesterone on in vitro maturation of equine oocytes before intracytoplasmic sperm injection with non-sorted and sex-sorted spermatozoa. *J Reprod Fert*, 2000;Suppl 56:519-525.
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43. Carnevale EM, RJ Ramirez, EL Squires, MA Alvarenga and PM McCue. Factors affecting pregnancy rates and early embryonic death after equine embryo transfer. *Theriogenology* 2000;54:965-979.
44. Farquhar VJ, PM McCue, DK Vanderwall and EL Squires. Efficacy of the GnRH agonist deslorelin acetate for inducing ovulation in mares relative to age of mare and season. *J Eq Vet Sci* 2000;20:8-11.
45. Vanderwall DK, EL Squires, SP Brinsko, and PM McCue. Diagnosis and management of abnormal embryonic development characterized by formation of an embryonic vesicle without an embryo in mares. *J Am Vet Med Assoc* 2000;217:58-63.
46. Buchanan BR, Seidell GE Jr, McCue PM, Schenk JL, Herickoff LA, Squires EL. Insemination of mares with low numbers of either unsexed or sexed spermatozoa. *Theriogenology* 2000;53:1333-1344.
47. McCue, PM, DA Hendrickson, MB Hess. Fertility of mares after unilateral laparoscopic tubal ligation. *Vet Surg* 2000;29:543-545.
48. Farquhar VJ, PM McCue, TM Nett and EL Squires. Effect of deslorelin acetate on gonadotropin secretion and subsequent follicular development in cycling mares. *J Am Vet Med Assoc* 2001;218: 749-752.
49. Selders CG, DA Hendrickson, AT Bowling, PM McCue. The use of laparoscopy to diagnose a case of equine intersex: a case report. *J Eq Vet Sci* 2001;21: 547-549.
50. Carnevale EM, Ramirez RJ, Squires EL, Alvarenga MA, McCue PM. Factors affecting pregnancy rates and early embryonic death after equine embryo transfer. *Havemeyer Foundation Monograph Series No. 3*, 2001: 91-92.

51. McCue PM, Vanderwall DK, Squires EL. Embryo recovery rates in mares with echogenic pre-ovulatory follicles. Havemeyer Foundation Monograph Series No. 3, 2001: 84-85.
52. Alvarenga MA, McCue PM, Squires EL, Neves Neto JR. Improvement of ovarian superstimulatory response and embryo production in mares treated with equine pituitary extract. Havemeyer Foundation Monograph Series No. 3, 2001: 79-80.
53. Alvarenga MA, McCue PM, Bruemmer J, Neves Neto JR, Squires EL. Ovarian superstimulatory response and embryo production in mares treated with equine pituitary extract twice daily. *Theriogenology* 2001;56: 879-887.
54. McCue PM, KD Niswender, VJ Farquhar. Induction of ovulation with deslorelin: options to facilitate implant removal. *J Eq Vet Sci* 2001;22: 54-55.
55. McCue PM, VJ Farquhar, EM Carnevale, EL Squires. Removal of deslorelin (Ovuplant<sup>TM</sup>) implant 48 h after administration results in normal interovulatory intervals in mares. *Theriogenology* 2002;58:865-870.
56. Farquhar VJ, McCue PM, Carnevale EM, Nett TM, Squires EL. Deslorelin acetate (Ovuplant) therapy in cycling mares: effect of implant removal on FSH secretion and ovarian function. *Equine Vet J* 2002;34:417-420.
57. Scoggin CF, Meira C, McCue PM, Carnevale EM, Nett TM, Squires EL. Strategies to improve the ovarian response to equine pituitary extract in cyclic mares. *Theriogenology* 2002;58:151-164.
58. McCue PM, Squires EL. Persistent anovulatory follicles in the mare. *Theriogenology* 2002;58: 541-543.
59. Maclellan LJ, Carnevale EM, Coutinho da Silva MA, McCue PM, Seidel GE, Squires EL. Cryopreservation of small and large equine embryos pre-treated with cytochalasin-B and/or trypsin. *Theriogenology* 2002;58: 717-720.
60. McCue PM. Equine Cushing's disease. *Vet Clin Equine* 2002;18:533-543.
61. Squires EL, Carnevale EM, McCue PM, Bruemmer JE. Embryo technologies in the horse. *Theriogenology* 2003;59:151-170.
62. Niswender KD, Alvarenga MA, McCue PM, Hardy QP, Squires EL. Superovulation in cycling mares using equine follicle stimulating hormone (eFSH). *J Equine Vet Sci* 2003;23:497-500.
63. McCue PM, Troedsson MHT. Commercial embryo transfer in the United States. *Pferdheikunde* 2003;19:689-692.

64. McCue PM, Niswender KD, Macon KA. Modification of the flush procedure to enhance embryo recovery. *J Equine Vet Sci* 2003;23:1-2.
65. McCue PM. Estrus suppression in performance horses. *J Equine Vet Sci* 2003;23:342-344.
66. Troedsson MHT, McCue PM. Clinical aspects of ovarian pathology in the mare. *Pferdeheikunde* 2003;19:577-584.
67. Bass LD, DJ Denniston, LJ Maclellan, PM McCue, GE Seidel Jr, EL Squires. *Theriogenology* 2004;62:1153-1159.
68. Glazar BS, McCue PM, Bruemmer JE, Squires EL. Deslorelin on Day 8 or 12 postovulation does not luteinize follicles during an artificially maintained diestrous phase in the mare. *Theriogenology*. 2004; 62:57-64.

#### **PUBLICATIONS (SUBMITTED, ACCEPTED, IN PRESS)**

n/a

#### **BOOKS OR MONOGRAPHS**

1. 1999 Cooled and frozen stallion semen. Squires EL, BW Pickett, JW Graham, DK Vanderwall, PM McCue and JE Bruemmer. *Animal Reproduction and Biotechnology Laboratory, Colorado State University, Ft. Collins, Colorado, Bulletin No. 9, xx pp.*
2. 2000 Collection, preparation and insemination of stallion semen. Pickett BW, JL Voss, EL Squires, DK Vanderwall, PM McCue and JE Bruemmer. *Animal Reproduction and Biotechnology Laboratory, Colorado State University, Ft. Collins, Colorado, Bulletin No. 10, 189 pp.*
3. 2000 Cypher BL, GD Warrick, MRM Otten, TP O'Farrell, WH Berry, CE Harris, TT Kato, PM McCue, JH Scrivner, and BW Zoellick. *Population dynamics of San Joaquin kit foxes at the Naval Petroleum Reserves in California. Wildlife Monographs 145 xx pp.*

#### **BOOK CHAPTERS**

1. 1990 McCue, PM. Abortion. In Smith, BP (ed) *Large Animal Internal Medicine*. CV Mosby Co, St. Louis, Missouri. p 247-250.

2. 1990 McCue, PM. Alterations in male sexual function. In Smith, BP (ed) Large Animal Medicine. CV Mosby Co, St. Louis, Missouri. p 234-239.
3. 1992 McCue, PM. Lactation. In McKinnon, AO and JL Voss (Eds) Equine Reproduction. Lea and Febiger, Philadelphia, pp. 588-595.
4. 1996 Troedsson, MHT and McCue, PM. Pregnancy loss. In Smith, BP (ed) Large Animal Internal Medicine 2nd Edition. Mosby-Year Book, Inc, St. Louis, Missouri. pp 252-257.
5. 1996 McCue, PM. Alterations in male sexual function. In Smith, BP (ed) Large Animal Medicine, 2nd Edition. Mosby-Year Book, Inc, St. Louis, Missouri. pp. 239-244.
6. 2000 McCue, PM. Diagnosis of ovarian abnormalities. In Ball, BA (ed) Recent Advances in Equine Theriogenology. International Veterinary Information Service ([www.ivis.org](http://www.ivis.org)).
7. 2001 Troedsson, MHT and McCue, PM. Pregnancy loss. In Smith, BP (ed) Large Animal Internal Medicine 2nd Edition. Mosby-Year Book, Inc, St. Louis, Missouri. pp 217-221.
8. 2001 McCue, PM. Alterations in male sexual function. In Smith, BP (ed) Large Animal Medicine, 2nd Edition. Mosby-Year Book, Inc, St. Louis, Missouri. pp. 207-211.
9. 2003 McCue PM. Induction of Ovulation. In: Robinson NE (ed) Current Therapy in Equine Medicine 5. WB Saunders, Philadelphia. Pp 240-242.

#### **ABSTRACTS**

1. 1989 Daels, P, PM McCue, MJ de Moraes, JP Hughes and GH Stabenfeldt. The activity and ease of administration of altrenogest-in-gel in mares. Proc Ann Meeting Society for Theriogenology, p 355.
2. 1992 McCue, PM, E Figueiredo and BL Lasley. Estrogen dynamics during the transition period in the mare. Biology of Reproduction, 46 (Suppl 1): 157.
3. 1993 McCue, PM and JF Roser. Inhibin: A marker for follicular activity in the mare. Society for the Study of Reproduction Annual Meeting, Fort Collins, Colorado, August 1993.
4. 1998 McCue, P.M., D.A. Hendrickson and M.B. Hess. Unilateral laparoscopic tubal ligation: potential use in equine GIFT. Proceedings Soc for Theriogenology p 169.

5. 1998 Vanderwall, D.K., E.L. Squires, S.P. Brinsko and P.M. McCue. Abnormal embryonic development in mares characterized by formation of a trophoblastic vesicle without an embryo-proper. Proceedings Soc for Theriogenology p 175.
6. 1998 McCue PM, JJ Fleury, DJ Denniston, JK Graham and EL Squires. Oviductal insemination in the mare. Proc Int Symp Equine Reproduction, Pretoria, South Africa.
7. 1999 McCue, P.M., D.K. Vanderwall, S.L. Keith and E.L. Squires. Equine embryo transfer: influence of endogenous progesterone concentration in recipients on pregnancy outcome. Theriogenology 51: 267.
8. 1999 Buchanan, B.R., P.M. McCue, E.L. Squires, G.E. Seidel and J.J. Fleury. Pregnancy rates in mares following a single insemination with a low number of spermatozoa into the tip of the uterine horn. Theriogenology 51: 395.
9. 1999 Alvarenga, M.A., P.M. McCue and L.C. Franz. Effect of follicular aspiration on ovarian function in transitional mares. Theriogenology 51: 431.
10. 1999 Alvarenga M, PM McCue and EL Squires. Improvement of ovarian superstimulatory response in mares treated with EPE twice daily. Proc Ann Conf Soc for Therio p. 46.
11. 1999 Foglia RA, PM McCue, EL Squires and W Jochle. Stimulation of follicular development in transitional mares using a progesterone vaginal insert (CIDR-B<sup>®</sup>). Proc Ann Conf Soc for Therio p. 33.
12. 1999 Buchanan BR, PM McCue, EL Squires and GE Seidel. Pregnancy rates following insemination of mares with sexed and unsexed semen. Proc Ann Conf Soc for Therio p. 45.
13. 2000 Alvarenga MA, PM McCue, EL Squires JR Neves-Neto. Improvement of ovarian superovulatory response and embryo production in mares treated with equine pituitary extract twice daily Proc 5<sup>th</sup> Int Symp Equine Embryo Transfer, p 38.
14. 2000 McCue PM, DK Vanderwall and EL Squires. Embryo Recovery Rates in Mares with Echogenic Preovulatory Follicles. Proc 5<sup>th</sup> International Symposium Equine Embryo Transfer
15. 2000 Foglia RA, PM McCue, EL Squires, W Jochle. Stimulation of follicular development in transitional mares using a progesterone vaginal insert (CIDR-B<sup>®</sup>). Proc Ann Conf Soc Theriogenology, p 33.

16. 2000 Carnevale EM, RJ Ramirez, EL Squires, MA Alvarenga and PM McCue. Factors affecting pregnancy rates and early embryonic death after equine embryo transfer. Proc 5<sup>th</sup> International Symposium Equine Embryo Transfer
17. 2000 McCue PM, CF Scoggin, C Meira and EL Squires. Pregnancy rates for equine embryos cooled for 24 hours in Ham's F-10 vs. emcare<sup>TM</sup> embryo holding solution. Proc Ann Conf Soc for Therio p. 147.
18. 2000 Gunthle LM, PM McCue, VJ Farquhar and RA Foglia. Effect of prostaglandin administration on corpus luteum formation in the mare. Proc Ann Conf Soc for Therio p. 139.
19. 2000 Scoggin CF, PM McCue, RA Foglia and EL Squires. The effects of intensity and duration of artificial photoperiod on the reproductive cycle of the mare. Proc Ann Conf Soc for Therio p. 169.
20. 2000 Franz LC, EL Squires, MK O'Donovan, TJ Scott and PM McCue. Collection and in vitro maturation of equine oocytes from estrus, diestrus and pregnant mares. Theriogenology 53: 452.
21. 2001 Scoggin CF, C Meira, PM McCue, EM Carnevale, TM Nett and EM Squires. Dose-response and frequency of equine pituitary extract administration in inducing superovulation in mares. Theriogenology 55:517.
22. 2001 Farquhar VJ, PM McCue, EM Carnevale and EL Squires. Interovulatory intervals of embryo donor mares administered deslorelin acetate to induce ovulation. Theriogenology 55:362.
23. 2001 Farquhar VJ, PM McCue, TM Nett, EL Squires. Effects of deslorelin acetate on FSH secretion and interovulatory interval in cycling mares. Proc 17th Equine Nutr Physiol Soc Symp.
24. 2002 Scoggin CF, C Meira, PM McCue, EM Carnevale, TM Nett, EL Squires. Use of a twice-daily step-down dosage of equine pituitary extract for induction of multiple ovulations in mares. Theriogenology 57:771.
25. 2003 Maclellan LJ, LD Bass, PM McCue, EL Squires. Effect of cooling large and small equine embryos prior to cryopreservation on pregnancy rates after transfer. Theriogenology 2003;59:306.
26. 2003 Bass LD, DJ Denniston, LJ Maclellan, PM McCue, GE Seidel Jr, EL Squires. Effect of methanol as a cryoprotectant for equine embryos. Proc 18<sup>th</sup> Equine Nutr Physiol Soc Symp. pp 69-75.

27. 2003 Crabb JJ, DJ Denniston, JE Bruemmer, QP Hardy, PM McCue, EL Squires. Effect of GnRH antagonist on luteinizing hormone and ovulation in mares. Proc 18<sup>th</sup> Equine Nutr Physiol Soc Symp pp 67-68.
28. 2003 Hardy QP, JE Bruemmer, PM McCue, EL Squires. Efficacy of Lutropin-V on inducing ovulation in estrual mares. Proc 18<sup>th</sup> Equine Nutr Physiol Soc Symp pp 63-64.
29. 2003 Squires EL, PM McCue, K Niswender, M Alvarenga. A review on the use of eFSH to enhance reproduction performance. Proc 49<sup>th</sup> AAEP Annual Convention pp 360-362.
30. 2004 Bass LD, DJ Denniston, LJ Maclellan, PM McCue, EL Squires. Methanol as a cyroprotectant for equine embryos. Reprod Fert Dev 16:163.

### PROCEEDINGS

1. 1992 McCue, PM. Induction of multiple ovulations in the mare by active immunization against inhibin. Proceedings: Annual Meeting of the Society for Theriogenology, August 14-15, pp. 101-107.
2. 1992 McCue, PM. Superovulation in the mare: new techniques and clinical applications. Proceedings: California Veterinary Medical Association Meeting pp. 188-192.
3. 1992 McCue, PM. Inhibin: a new marker for the diagnosis of granulosa cell tumors in the mare. Proceedings: California Veterinary Medical Association Meeting pp. 193-199.
4. 1995 McCue, PM. Normal and abnormal equine ovary. Proceedings: Colorado State University 56th Annual Conference for Veterinarians, January 7-9, pp. 80-89.
5. 1995 McCue, PM. Superovulation in the mare. Proceedings: Colorado State University 56th Annual Conference for Veterinarians, January 7-9, pp. 90-95.
6. 1995 McCue, PM, D Vanderwall, EL Squires. Superovulation: a technique for the enhancement of fertility in horses. Proceedings: American Association of Equine Practitioners pp. 6-7.
7. 1995 Tanner, M.K., A.M. Swinker, J.L. Traub-Dargatz, L.A. Stiffler, P.M. McCue, D.K. Vanderwall, D.E. Johnson and L.M. Vap. Physiological effect of recycled phonebook paper vs sawdust bedding on the equine respiratory tract. Proc., Western Section, American Society of Animal Science vol. 46

8. 1996 McCue, PM, Shannon S. Lemons, Edward L. Squires and Dirk K. Vanderwall. Efficacy of estradiol/progesterone implants for suppression of estrus in the mare. Proceedings AAEP Dec. 8-11, 1996, 42: 195-196.
9. 1996 McCue, PM, Shannon S. Lemons, Edward L. Squires and Dirk K. Vanderwall. Synovex implants: efficacy in suppression of estrus in mares. Proceedings Soc for Therio., August 15-17, p. 306.
10. 1996 Squires, E.L., D.K. Vanderwall, P.M. McCue and S.P. Brinsko. Factors affecting pregnancy rates of fresh and cooled equine embryos. Proc 4<sup>th</sup> Int Symp on Equine Embryo Transfer, Practitioners Meeting.
11. 1997 Nickerson, K.C., P.M. McCue, E.L. Squires. Comparison of two dosage regimens of the GnRH agonist deslorelin acetate on inducing ovulation in seasonally anestrous mares. Proc 15<sup>th</sup> Equine Nutrition and Physiology Society Symposium.
12. 1998 McCue, P.M. Review of ovarian abnormalities in the mare. Proceedings 44<sup>th</sup> Annual AAEP Convention , pp. 125-133.
13. 1999 McCue PM, BR Buchanan, VJ Farquhar, EL Squires and DL Cross. Efficacy of domperidone on induction of ovulation in anestrous and transitional mares. Proceedings 45<sup>th</sup> Annual AAEP Convention , pp. 217-218.
14. 2000 McCue PM. Ovarian pathology in the mare. Proc. Bluegrass Equine Reproduction Symposium. Lexington, KY.
15. 2000 McCue PM, VJ Farquhar and EL Squires. Effect of the GnRH Agonist Deslorelin Acetate on Pituitary Function and Follicular Development in the Mare Proceedings 46<sup>th</sup> Annual AAEP Convention, pp. 355-356.
16. 2000 Gunthle LM, PM McCue, VJ Farquhar and RA Foglia. Effect of prostaglandin administration on corpus luteum formation in the mare. Proc Ann Conf Soc for Therio p. 139.
17. 2000 McCue PM, CF Scoggin, C Meira and EL Squires. Pregnancy rates for equine embryos cooled for 24 hours in Ham's F-10 vs. emcare<sup>TM</sup> embryo holding solution. Proc Ann Conf Soc for Therio p. 147.
18. 2001 McCue PM. Manipulation of the estrous cycle. Proc. West Coast Equine Reproduction Symposium. Solvang, CA, pp. 107-113.
19. 2001 McCue PM, Nickerson KC, Squires EL, Farquhar VJ, Nett TM. Effect of altrenogest on luteinizing hormone concentrations in mares during the transition period. Proc 47<sup>th</sup> Annual AAEP Convention, pp. 249-251.

20. 2001 McCue PM. Ovarian abnormalities. Proc Ann Conf Soc for Therio pp 205-213.
21. 2001 McCue PM, Squires EL, Bruemmer JE, Niswender KD. Equine embryo transfer: techniques, trends and anecdotes. Proc Ann Conf Soc for Therio pp 229-235.

### **LAY / POPULAR ARTICLES**

1. 1991 McCue, PM. Breeding the older mare. Journal of Equine Veterinary Science 11(6): 316-318. (Reprinted in 21 other publications to date)
2. 1993 McCue, PM. Mare Surgery: Ovariectomy. Appaloosa Journal. April issue, p. 12.
3. 1999 McCue, PM. Persistent anovulatory follicles in the mare can obstruct ovulation. DVM Magazine, February Issue, pp 1E-2E.
4. 2004 McCue, PM. Dental care avoids problems. North Forty News September 2004, page 14
5. 2004 Traub-Dargatz J and P McCue. Prepare for foaling well in advance. North Forty News September 2004, page 14

Journal of the American Quarter Horse Association - Monthly Column titled: The Breeding Shed

<u>Month</u>	<u>Year</u>	<u>Article Title</u>
1. February	2003	Foaling Fundamentals
2. March	2003	Ovuplant™
3. April	2003	Progesterone Primer
4. May	2003	Retained Placentas
5. June	2003	Identity Crisis
6. July	2003	The Last Straw
7. August	2003	Blocking Heat
8. September	2003	The Proud-Cut Gelding
9. October	2003	Super Ovulation
10. November	2003	Cushing's
11. December	2003	Management of Twins
12. January	2004	Foaling Prediction
13. February	2004	Foal Heat Breeding
14. March	2004	Red Bag
15. April	2004	Salvaging Sperm
16. May	2004	Preg Check

17. June	2004	Against the Odds
18. July	2004	Foal Rejection
19. August	2004	Pinpoint Blood Loss
20. September	2004	Cryptorchidism
21. October	2004	Sperm Accumulators
22. November	2004	Older Mares
23. December	2004	Dystocia

## POSTERS

1. 1989 McCue, PM, RL Linford and BL Lasley. Cannulation of the ovarian vein for long term monitoring of ovarian steroidogenesis in the mare. House Officers Seminar Day, March 17, 1989, Davis, CA.
2. 1991 McCue, PM, SK Hietala, MS Spensley, M Stillian, J Mihalyi and JP Hughes. Prevalence of Equine Viral Arteritis in California. Equine Medicine Symposium, University of California, Davis, February 24, 1991, Davis, CA.
3. 1992 McCue, PM, NJ Carney, JP Hughes, J Rivier, W Vale and BL Lasley. Induction of multiple ovulations in the mare by active immunization against inhibin. Third Annual Research Day, School of Veterinary Medicine, January 14, 1992, University of California, Davis, Davis, CA.
4. 1992 McCue, PM, E Figueiredo and BL Lasley. Estrogen dynamics during the transition period in the mare. Society for the Study of Reproduction Meeting, July 15, 1992, Raleigh, NC.
5. 1993 McCue, PM and JF Roser. Inhibin: A marker for follicular activity in the mare. Society for the Study of Reproduction Meeting, August 1993, Fort Collins, Colorado.
6. 1999 McCue, PM, DK Vanderwall, SL Keith and EL Squires. Equine ET: progesterone concentration in recipients. International Embryo Transfer Society, Quebec City, Canada, January, 1999.
7. 2001 Farquhar, VJ, PM McCue, EM Carnevale and EL Squires. Interovulatory intervals of embryo donor mares administered deslorelin (Ovuplant™) to induce ovulation. International Embryo Transfer Society, Omaha, Nebraska, January, 2001.
8. 2001 Scoggin, CF, C Meira, PM McCue, EM Carnevale, TM Nett and EL Squires. Dose-response and frequency of equine pituitary extract administration in inducing superovulation in mares. International Embryo Transfer Society, Omaha, Nebraska, January, 2001.

## SEMINARS

### 2000

1. McCue, Patrick. Jan 8, 2000. Modesto, CA. Breeding management of the mare: fresh, cooled or frozen semen
2. McCue, Patrick. Jan 8, 2000. Modesto, CA. Reproductive abnormalities of the mare.
3. McCue, Patrick. Jan 8, 2000. Modesto, CA. Parturition (foaling).
4. McCue, Patrick. Jan 8, 2000. Modesto, CA. Routine management of the newborn foal
5. McCue, Patrick. Jan 29, 2000. Ft. Collins, CO. Phi Zeta Research Day. Use of sexed semen in equine reproduction.
6. McCue, Patrick. July 6, 2000. Saari, Finland. Equine Embryo Transfer Symposium. Embryo recovery rates in mares with echogenic pre-ovulatory follicles.
7. McCue, Patrick. October 11, 2000. Ft. Collins, CO. Club Veterinary Equina. Current Topics in Equine Reproduction.
8. McCue, Patrick. October 11, 2000. Ft. Collins, CO. Club Veterinary Equina. Equine embryo transfer.
9. McCue, Patrick. October 26, 2000. Lexington, KY. Bluegrass Equine Reproduction Symposium. Ovarian Pathology in the mare.
10. McCue, Patrick. November 28, 2000. San Antonio, TX. American Association of Equine Practitioners. Effect of the GnRH agonist deslorelin acetate on pituitary function and follicular development in the mare.
11. McCue, Patrick. November 30, 2000. San Antonio, TX. Society for Theriogenology. Effect of prostaglandin administration postovulation on corpus luteum formation in the mare.
12. McCue, Patrick. November 30, 2000. San Antonio, TX. Society for Theriogenology. Pregnancy rates for equine embryos cooled for 24 hours in Ham's F-10 vs emcare<sup>TM</sup> embryo holding solution.

### 2001

1. McCue, Patrick. February 8, 2001. Ames, IA. Iowa Veterinary Medical Association. Breeding management of the mare: fresh, cooled or frozen semen.
2. McCue, Patrick. February 8, 2001. Ames, IA. Iowa Veterinary Medical Association. Hormone Therapy in Broodmare Practice.
3. McCue, Patrick. February 8, 2001. Ames, IA. Iowa Veterinary Medical Association. Ovarian Problems in the Non-pregnant mare.
4. McCue, Patrick. February 8, 2001. Ames, IA. Iowa Veterinary Medical Association. Uterine Problems in the Non-pregnant mare.
5. McCue, Patrick. April 7, 2001. Ft. Collins, CO. CSU Pre-Vet Club. Equine Embryo transfer.

6. McCue, Patrick. July 20, 2001. Philadelphia, PA. American Association of Equine Practitioners Encore Meeting. Effect of Ovuplant on ovarian function.
7. McCue, Patrick. October 10, 2001. Reno, NV. Wild West Veterinary Conference. Breeding management of the mare: fresh, cooled or frozen semen.
8. McCue, Patrick. October 10, 2001. Reno, NV. Wild West Veterinary Conference. Hormone Therapy in Broodmare Practice.
9. McCue, Patrick. October 10, 2001. Reno, NV. Wild West Veterinary Conference. Ovarian Problems in the Non-pregnant mare.
10. McCue, Patrick. October 10, 2001. Reno, NV. Wild West Veterinary Conference. Uterine Problems in the Non-pregnant mare.
11. McCue, Patrick. October 10, 2001. Reno, NV. Wild West Veterinary Conference. Assisted Reproduction and Embryo Transfer.
12. McCue, Patrick. October 11, 2001. Reno, NV. Wild West Veterinary Conference. Storage, Handling, Thawing and Insemination of Frozen Semen.
13. McCue, Patrick. October 11, 2001. Reno, NV. Wild West Veterinary Conference. Collection and Interpretation of Uterine Cytology.
14. McCue, Patrick. October 11, 2001. Reno, NV. Wild West Veterinary Conference. The Placenta: In-Utero and Post-foaling Examination.
15. McCue, Patrick. October 11, 2001. Reno, NV. Wild West Veterinary Conference. Evaluation of Mammary Secretions to Predict Foaling.
16. McCue, Patrick. November 27, 2001. San Diego, CA. American Association of Equine Practitioners. Effect of altrenogest on luteinizing hormone concentrations in mares during the transition period.
17. McCue, Patrick. November 30, 2001. Solvang, CA. West Coast Equine Reproduction Symposium. Manipulation of the estrous cycle.

## **2002**

1. McCue, Patrick. February 9, 2002. Ocala, FL. Horse Day. Management of the mare for optimal fertility – Emphasis on ultrasound.
2. McCue, Patrick. February 9, 2002. Ocala, FL. Horse Day. Hormone Therapy in Broodmare Practice.
3. McCue, Patrick. February 9, 2002. Ocala, FL. Horse Day. Ovarian Problems in the Non-pregnant mare.
4. McCue, Patrick. February 9, 2002. Ocala, FL. Horse Day. Uterine Problems in the Non-pregnant mare.
5. McCue, Patrick. February 9, 2002. Ocala, FL. Horse Day. Discussion Panel: Problems in Equine Reproduction.
6. McCue, Patrick. February 16, 2002. Keewanee, IL. Black Hawk College. Breeding management of the mare: fresh, cooled or frozen semen.
7. McCue, Patrick. February 16, 2002. Keewanee, IL. Black Hawk College. Reproductive abnormalities of the mare.
8. McCue, Patrick. February 16, 2002. Keewanee, IL. Black Hawk College. Parturition (foaling).
9. McCue, Patrick. February 16, 2002. Keewanee, IL. Black Hawk College. Routine management of the newborn foal.

10. McCue, Patrick. February 16, 2002. Keewanee, IL. Black Hawk College. Vaccination and deworming schedule for the foal.
11. McCue, Patrick. February 16, 2002. Keewanee, IL. Black Hawk College. Equine embryo transfer.
12. McCue, Patrick. March 16, 2002. Denver, CO. Horse Expo. Equine Parturition.
13. McCue, Patrick. July 25, 2002. Ft. Collins, CO. International Symposium on Equine Reproduction. Persistent anovulatory follicles in the mare.
14. McCue, Patrick. October 5, 2002. Ft. Collins, CO. Student Chapter of the AAEP Equine Reproduction Symposium. Video guide to parturition in the mare.
15. McCue, Patrick. October 5, 2002. Ft. Collins, CO. Student Chapter of the AAEP Equine Reproduction Symposium. Care of the postpartum mare.
16. McCue, Patrick. October 5, 2002. Ft. Collins, CO. Student Chapter of the AAEP Equine Reproduction Symposium. Care of the newborn foal
17. McCue, Patrick. October 5, 2002. Ft. Collins, CO. Student Chapter of the AAEP Equine Reproduction Symposium. Complications of pregnancy in the mare.
18. McCue, Patrick. November 8, 2002. Honolulu, HI. Hawaii Veterinary Medical Association. Breeding management of the mare: fresh, cooled or frozen semen.
19. McCue, Patrick. November 8, 2002. Honolulu, HI. Hawaii Veterinary Medical Association. Hormone Therapy in Broodmare Practice.
20. McCue, Patrick. November 8, 2002. Honolulu, HI. Hawaii Veterinary Medical Association. Ovarian and Uterine Problems in the Non-pregnant mare.
21. McCue, Patrick. November 10, 2002. Kona, HI. Equine Breeding Management.
22. McCue, Patrick. November 10, 2002. Kona, HI. Equine Embryo Transfer.

## **2003**

1. McCue, Patrick. January 13, 2003. Ft. Collins, Co. Annual Veterinary Conference. Estrus suppression in performance horses.
2. McCue, Patrick. February 17, 2003. Las Vegas, NV. Western Veterinary Conference. Breeding management of the mare: fresh, cooled or frozen semen.
3. McCue, Patrick. February 17, 2003. Las Vegas, NV. Western Veterinary Conference. Hormone Therapy in Broodmare Practice.
4. McCue, Patrick. February 17, 2003. Las Vegas, NV. Western Veterinary Conference. Ovarian Problems in the Non-pregnant mare.
5. McCue, Patrick. February 17, 2003. Las Vegas, NV. Western Veterinary Conference. Uterine Problems in the Non-pregnant mare.
6. McCue, Patrick. February 17, 2003. Las Vegas, NV. Western Veterinary Conference. Assisted Reproduction in the Horse.
7. McCue, Patrick. August 23, 2003. Brisbane, Queensland, Australia. Australian Embryo Transfer Association. Embryo Transfer in the United States.
8. McCue, Patrick. December 3, 2003. Victoria, Australia. Golburn Valley Equine Hospital. Embryo Transfer and refrozen semen in the mare.

## **2004**

1. McCue, Patrick. January 12, 2004. Portland, OR. International Embryo Transfer Society. Refreezing stallion semen for assisted reproduction.
2. McCue, Patrick. February 1, 2004. Cozumel, Mexico. AAEP Resort Symposium. New Aspects of Hormone Therapy in Equine Reproduction.
3. McCue, Patrick. February 1, 2004. Cozumel, Mexico. AAEP Resort Symposium. Use of Assisted Reproduction in Private Practice.
4. McCue, Patrick. February 28, 2004. Delta, CO. Western Slope Horse Owners. Breeding Management in mares.
5. McCue, Patrick. February 28, 2004. Delta, CO. Western Slope Horse Owners. Foaling and care of the newborn foal.
6. McCue, Patrick. March 4, 2004. Ft. Collins, CO. Student Chapter of the AAEP. Hormone Therapy.
7. McCue, Patrick. April 3, 2004. Ft. Collins, CO. Veterinary Teaching Hospital Open House. Foaling.
8. McCue, Patrick. August 5, 2004. Rio de Janeiro, Brazil. International Symposium on Equine Embryo Transfer. Refrozen sperm: sperm characteristics in horses and *in vitro* embryo production in ruminants.
9. McCue, Patrick. October 9, 2004. Ft. Collins, CO. Student Chapter of the AAEP Reproduction Short Course. Breeding the mare with fresh, cooled and frozen semen.
10. McCue, Patrick. October 9, 2004. Ft. Collins, CO. Student Chapter of the AAEP Reproduction Short Course. Breeding soundness evaluation (BSE) of the Stallion and Clinical Cases.
11. McCue, Patrick. December 3, 2004. Ft. Collins, CO. American Association of Equine Practitioners Wet Lab. Embryo Transfer.
12. McCue, Patrick. December 6, 2004. Denver, CO. American Association of Equine Practitioners Annual Conference. Efficacy of hCG at Inducing Ovulation: a New Look at an Old Issue.

### **Honors and Awards**

Norden Distinguished Teaching Award, 1996  
CSU AAEP Faculty Teaching Award, 1996, 2003

### **National Committees**

Reproduction Committee of the AAEP  
Research Committee of the AAEP (2003-2004)  
Dental Committee of the AAEP (1996-1998)  
Board of Directors of the AAEP (2004- present)

### **Professional Organizations**

American College of Theriogenologists  
American Veterinary Medical Association

American Association of Equine Practitioners  
Society for Theriogenology

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