

# Reproductive Health Surveillance Program

## Recent Publications by RHSP members

Publications in green include trainee participation (undergraduate, graduate, or veterinary student, intern, or resident)

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Updated January 2024

### 2023

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1. **Agnew D.** Pathology of Perinatal Disorders. *Vet Clin North Am Small Anim Pract.* 2023 Sep;53(5):1147-1159. doi: 10.1016/j.cvsm.2023.04.008. Epub 2023 May 21.
2. Catala M, Yob C, **Agnew DW, Moresco A.** 2023. Melengestrol acetate and its effects on the reproductive health of female lesser apes (*Hylobatidae*) under human care. In: *Proc. Am. Assoc. Zoo Vet.*; p. 124.
3. Feltrer-Rambaud Y, **Moresco A,** Ange-van Heugten K, Pizarro A, Tomeo-Martín BD, Carrasco Pesquera L, Atencia R, Perisé-Barrios AJ. 2023. Serum Vitamin D in Sanctuary Chimpanzees (*Pan troglodytes*) in Range Countries: A Pilot Study. *Vet. Med. Sci.* Epub Sept 2023. <https://doi.org/10.1002/vms3.1279>.
4. Juhong A, Li B, Yao CY, Yang CW, **Agnew DW,** Lei YL, Huang X, Piyawattanametha W, Qiu Z. Super-resolution and segmentation deep learning for breast cancer histopathology image analysis. *Biomed Opt Express.* 2022 Dec 5;14(1):18-36. doi: 10.1364/BOE.463839.
5. Kokenakes K, Hamel C, **Moresco A, Agnew D.** 2023. Retrospective analysis of risk factors influencing bongo (*Tragelaphus eurycerus*), kudu (*T. imberbis* and *T. strepsiceros*), sitatunga (*T. spekii*), and nyala (*T. angasii*) reproductive health. In: *Proc. National Veterinary Scholars Symposium*; p.
6. Kokenakes K, Hamel C, **Moresco A, Agnew D.** 2023. Retrospective analysis of risk factors influencing bongo (*Tragelaphus eurycerus*), kudu (*T. imberbis* and *T. strepsiceros*), sitatunga (*T. spekii*), and nyala (*T. angasii*) reproductive health. In: *Proc. Phi Zeta Day*;
7. Kosiba C, **Moresco A, Agnew D,** Eustace R, Thompson K. 2023. Retrospective study of reproductive tract pathology in Family Giraffidae (giraffe (*Giraffa camelopardalis*) and okapi (*Okapia johnstoni*)). In: *Proc. Phi Zeta Day*.
8. Kosiba C, **Moresco A, Agnew D,** Eustace R, Thompson K. 2023. Retrospective study of reproductive tract pathology in Family Giraffidae (giraffe (*Giraffa camelopardalis*) and okapi (*Okapia johnstoni*)). In: *Proc. National Veterinary Scholars Symposium*.
9. Lima HC, Alves ACT, Mendes MRC, **Moresco A,** Rahal SC. 2023. Partial amputation of a non-reducing prolapsed phallus in an ostrich (*Struthio camelus*). *J Av Med Surg.* 37(2), 188-192. <https://doi.org/10.1647/20-00088>.
10. Lindsey K, **Moresco A,** Yob C, **Agnew D.** 2023. Risk factors for reproductive lesions in servals (*Felis serval*). In: *Proc. Am. Assoc. Zoo Vet.*; p. 126.

11. McFarland A, Moresco A, Lombardi C, Johnson III JG. 2023. Binturong (*Arctictis binturong*) morbidity and mortality under managed care within US institutions. *J Zoo Wildl Med.* 54(1): 73-81. <https://doi.org/10.1638/2021-0089>.
12. Moresco A and DW Agnew. 2023. 2022 Annual Report Reproductive Health Surveillance Program RHSP. <http://dx.doi.org/10.13140/RG.2.2.18660.45448>.
13. Rooney T, Moresco A, Wolfman DJ, Thompson KA. 2023. Serial ultrasonographic measurements of fetal parameters over two successive pregnancies in a captive Eastern black-and-white colobus monkey (*Colobus guereza*). *Zoo Biol.* ePub July 2023. <https://doi.org/10.1002/zoo.21795> .

## 2022

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1. Abegglen LM, Harrison TM, Moresco A, Fowles JS, Troan BV, Kiso WK, Schmitt D, Boddy AM, Schiffman JD. 2022. Of elephants and other mammals: a comparative review of reproductive tumors and potential impact on conservation. *Animals.* 12(15):2005. <https://doi.org/10.3390/ani12152005>
2. Agnew D. Perinatal mortality in horses and camelids. *Clin Therigenol.* 2022; 14:55-58.
3. Agnew D. Failure of pregnancy in ruminants. *Clin Therigenol.* 2022; 14:59-62.
4. Agnew DW, Moresco A, Pan T, Boddy AM. 2022. Reproductive pathology in female orangutans (*Pongo spp.*) under managed care. *Proc Am Assoc Zoo Vet.*
5. Catala M, Yob C, Moresco A, Agnew D. 2022. Contraception use and its effects on the reproductive health of captive Lesser Apes (*Hylobates spp.*). *Proc National Veterinary Summer Scholar Program.*
6. Cavaliere G, Moresco A, Agnew D. 2022. Uterine lumen size as a function of the phase of estrous cycle, hormonal treatment, and disease in gazelles (*Gazella, Eudorcas, and Nanger spp.*). *Proc National Veterinary Summer Scholar Program.*
7. Crawford M, Moresco A, McDonald M, Agnew D. 2022. Relationship between parity and reproductive disease in managed African Painted Dogs (*Lycaon pictus*). *Proc Reproductive & Developmental Sciences Programs.*
8. Fayette MA, Moresco A, Vincent E, Petroff B, Agnew DW. 2022. Validation of radioimmunoassay kits for thyroxine and free thyroxine and determination of normal reference intervals for thyroid hormone serum concentrations in orangutans (*Pongo sp.*). *Proc Am Assoc Zoo Vet.*
9. Franklin A, Moresco A, Hummel G, Frank K, Cowl V, Horiszny S, Cantwell Grimm E, Powell D. 2022. Looking back to look forward: Contraceptive use in the reproductive management of ex situ giraffe (*Giraffa camelopardalis*). *Proc AZA midyear.*
10. Gierbolini-Torres A, Agnew D, Moresco A. 2022. Morphological assessment of uterine disease in red pandas. *Proc National Veterinary Summer Scholar Program.*

11. Juhong A, Li B, Yao CY, Yang CW, Agnew DW, Lei YL, Huang X, Piyawattanametha W, Qiu Z. Super-resolution and segmentation deep learning for breast cancer histopathology image analysis. *Biomed Opt Express*. 2022 Dec 5;14(1):18-36.
12. Kahn B, Moresco A, Agnew D. 2022. Granulosa cell proliferation in the orangutan ovary. *Proc Am College Vet Path*.
13. Kitchen-Goosen SM, Schumacher H, Good J, Patterson AL, Boguslawski EA, West RA, Williams BO, Hostetter G, Agnew DW, Teixeira JM, Alberts AS. 2022. Endometrial hyperplasia with loss of APC in a novel population of Lyz2-expressing mouse endometrial epithelial cells. *Carcinogenesis*.
14. Lamglait B, Moresco A, Couture EL, Ferrell ST, Lair S. 2022. Vaginal foreign bodies in six nonhuman primates with underlying pathological conditions. *Zoo Biology*. <https://doi.org/10.1002/zoo.21689>.
15. Lindsey K, Moresco A, Yob C, Agnew D. 2022. Effect of Age and Contraceptive Type on Female Reproductive Tracts of Servals. *Proc National Veterinary Summer Scholar Program*.
16. McDonald M, Agnew DW, Moresco A, Crawford M, Franklin A, Gorsuch C, Asa CS, Powell D. 2022. Investigation of factors associated with reproductive disease in African Painted Dogs (*Lycaon pictus*) at AZA institutions. *Proc. International Painted Dog Conference*.
17. Moresco A, Agnew DW, Pan T, Boddy AM. 2022. Reproductive tract neoplasia in female western lowland gorillas (*Gorilla gorilla gorilla*) under managed care. *Proc Am Soc Primatol*.
18. Moresco A and DW Agnew. 2022. 2021 Annual Report Reproductive Health Surveillance Program RHSP. <http://dx.doi.org/10.13140/RG.2.2.19810.81602>
19. Miranda F, Kersul M, Martins A, Gasparotto V, Molina K, Vilela J, Snoeck P, **Moresco A**. 2021. Pharmacological semen collection and sperm morphometric evaluation in Silky anteater (*Cyclopes didactylus*) Linneus, 1758. XXIV Congresso Brasileiro de Reprodução Animal e VIII International Symposium on Animal Biology of Reproduction.
20. Premanandan C, Agnew D. Perinatal mortality in dogs and cats. *Clin Theriogenol*. 2022; 14: 70-72.
21. Scott TN, Swenson CL, Stein L, Agnew DW. What is your diagnosis? Abdominal mass from a dog. *Vet Clin Pathol*. 2022 Mar 7. doi: 10.1111/vcp.13082.

## 2021

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1. Agnew DA. 2021. Sustainability and Wild Sex: Reproductive Pathology in Conservation Medicine. PATACON meeting, On-line, Brazil.
2. Agnew DW, Moresco, A. 2021. Reproductive Cancers in Wildlife: A threat to sustainability in threatened species. ESCRA “Cancer Across Species – Improving Cancer Care for All” Virtual Conference. North Carolina State University, May 11, 2021

3. Crawford M, Moresco A, McDonald M, Agnew D. 2021. Relationship between parity and reproductive disease in managed African Painted Dogs (*Lycaon pictus*). Proc. Natl Vet Scholars Symp; p. 104.
4. Crawford M, Moresco A, McDonald MM, Agnew D. 2021. Relationship between parity and reproductive disease in managed African Painted Dogs (*Lycaon pictus*). Proc. MARTS meeting p. 10.
5. Eustace R, Agnew D, Fitzgerald SD, Fyfe JC, Duncan AE, Petroff B, Thompson KA. 2021. Presumptive congenital hypothyroidism in red pandas (*Ailurus fulgens fulgens*) from four successive litters. J Zoo Wildl Med.; 52(2):795-805.
6. Glabman RA, Thompson KA, Mani R, Colburn R, Agnew DW. 2021. Atypical *Brucella inopinata*-Like Species in 2 Marine Toads. Emerg Infect Dis.; 27(6):1748-1750.
7. Landolfi JA, Gaffney PM, McManamon R, Gottdenker NL, Ellis AE, Rech RR, Han S, Lowenstine LJ, Agnew D, Garner MM, McAloose D, Hollinger C, St. Leger J, Terrell SP, Duncan M, Pessier AP. 2021. Reproductive tract neoplasia in adult female Asian elephants (*Elephas maximus*). Vet Pathol. 58(6): 1131-1141. <https://doi.org/10.1177/03009858211031843>
8. Moresco A, Agnew DW. 2021. 2020 Annual report Reproductive Health Surveillance Program. Reproductive Health Surveillance Program, Morrison, CO. [doi: 10.13140/RG.2.2.34349.61925](https://doi.org/10.13140/RG.2.2.34349.61925)
9. Moresco A, Cutchin E, Larsen RS, Stern M, Penfold LM, Stringer B, Valois M, Barfield JP. 2021. Zoo Clinical Challenge- Gorilla Infertility. Clin Theriogenol. 13(4): 402-407.
10. Moresco A, Dadone L, Klaphake E, Johnston M, Han S, Agnew DW. 2021. Hydrometra in rock hyrax (*Procapra capensis*) under managed care. J Zoo Wildl Med. 52: 820-826. <https://doi.org/10.1638/2020-0178>
11. Moresco A, Feltrer Y, Wolfman DJ, Agnew DW. 2021. Reproductive One Health in primates. Am J Primatol. <https://doi.org/10.1002/ajp.23325>
12. Moresco A, Han S, Jankowski G, Peterson A. 2021. Diagnosis and treatment of endometriosis in a hooded capuchin (*Sapajus apella*). J Med Primatol. 50: 146-148. <https://doi.org/10.1111/jmp.12513>
13. Moresco A, Joseph S, Readyhough T, Davis M, Schreier A, Prado-Oviedo NA, Brown JL. 2021. Effects of socialization on behavioral, physiological and reproductive parameters of bull Asian elephants. Connect. January: 16-17. [https://assets.speakcdn.com/assets/2332/web\\_connect\\_january\\_2021.pdf](https://assets.speakcdn.com/assets/2332/web_connect_january_2021.pdf)
14. Moresco A, Penfold LM, Jankowski G, McCain S, Crook E, Faliano A, Crane J, Wack RF, Goodnight A, Han S. 2021. Reproductive suppression of giraffe (*Giraffa camelopardalis*) under managed care using a GnRH immunological product. Zoo Biology. <https://doi.org/10.1002/zoo.21652>

15. Moresco A, Stoops M, Kirkman L, Bobko C, Chappell R, Kainuma M, Cesler S, Jacokes C, Hausmann J, Larsen RS. 2021. Denver Zoo's greater one-horned rhinoceros (*Rhinoceros unicornis*) artificial insemination, pregnancy and birth. Proc. AZA midyear- Rhino TAG; p.
16. Nguyen SL, Ahn SH, Greenberg JW, Collaer BW, Agnew DW, Arora R, Petroff MG. 2021. Integrins mediate placental extracellular vesicle trafficking to lung and liver in vivo. Scientific Reports. 11: 4217. <https://doi.org/10.1038/s41598-021-82752-w>
17. Stoops MA, Moresco A, O'Brien JK, Penfold LM, Gillis J, Metrione LC. 2021. Overcoming reproductive disorders in female greater one-horned rhinoceros to improve AI success. Clin Theriogenol. 13(4): 394-401.
18. Vansandt LM, Bateman HL, Miller AG, Herrick JR, Moresco A, Gonzalez R, Iwaniuk ME, Swanson WF. 2021. Cross-species efficacy of a chemically-defined, soy lecithin-based cryomedium for semen banking in imperiled wild felids. Theriogenology. 159: 108-115. <https://doi.org/10.1016/j.theriogenology.2020.10.021>
19. Yarto E, Reyes A, Moresco A, Arriaga I, Fajardo J, Morales M. 2021. Bilateral atrial thrombosis in an African hedgehog (*Atelerix albiventris*) with cardiomyopathy, endometrial hyperplasia and left cystic ovary. J Exot Pet Med. 36: 86-89. <https://doi.org/10.1053/j.jepm.2019.09.012>

## 2020

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1. McClusky B, Agnew D. 2020. Spermatogenesis in Mexican wolf testis of differing ages. MSU CVM Phi Zeta Day, East Lansing, MI (virtual).
2. Moresco A, Agnew DW. 2020. 2019 Annual report Reproductive Health Surveillance Program. Reproductive Health Surveillance Program. 2: DOI: [10.13140/RG.2.2.28781.51680](https://doi.org/10.13140/RG.2.2.28781.51680)
3. Moresco A, Feltrer Y, Pizarro A, Wolfman DJ, Atencia R. 2020. Reproductive health evaluation and contraceptive use in sanctuary chimpanzees (*Pan troglodytes verus*) in Sierra Leone. Proc. Am. Assoc. Zoo Vet. (virtual). p. 85-86.
4. Moresco A, Muñoz K, Gutierrez F, Arias-Bernal L, Yarto Jaramillo E, Teixeira CR, Peña-Stadlin J, Troan B. 2020. Taxonomic distribution of neoplasia among non-domestic felid species under managed care. Animals. 10. <https://doi.org/10.3390/ani10122376>
5. Nguyen SL, Ahn SH, Greenberg JW, Collaer BW, Agnew DW, Arora R, Petroff MG. 2020 preprint. Integrins mediate placental extracellular vesicle trafficking to lung and liver in vivo. Pre-print bioRxiv. <https://doi.org/10.1101/2020.09.22.309047>
6. Strachota J, Jacobs CC, Agnew DW, Roberts J. 2020. Theriogenology Question of the Month. J. Am. Vet. Med. Assoc. 257(9): 917-920. <https://doi.org/10.2460/javma.257.9.917>
7. Sayles H, Agnew D. The clinical significance of hemorrhage and congestion in the uterus of Mexican wolves. MSU CVM Phi Zeta Day, East Lansing, MI (virtual). 2-23 October 2020
8. Woloszyk Z, Agnew D. 2020. Down under in the land down under: monotreme reproduction. MSU CVM Phi Zeta Day, East Lansing, MI (virtual). 2-23 October 2020

## 2019

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1. Agnew DW, Moresco A. 2019. The sustainability crisis in zoos needs both archival and prospective studies: the Reproductive Health Surveillance Program has both. Proc. Am. Assoc. Zoo Vet. pp. 12-13.
2. Asa CS, Moresco A. 2019. Fertility control in wildlife: review of current status, including novel and future technologies In. P. Comizzoli, J.L. Brown, and W.V. Holt, (eds.). Reproductive Sciences in Animal Conservation, ed. Springer. Pp. 507-543.
3. Corner S, Yuzbasiyan-Gurkan V, Agnew D, Venta PJ. 2019. Development of a 12-plex of new microsatellite markers using a novel universal primer method to evaluate the genetic diversity of jaguars (*Panthera onca*) from North American zoological institutions. Cons Gen Res. 11, 487–497. <https://doi.org/10.1007/s12686-018-1070-8>
4. Goblet CC, Moresco A, Garner MM, Agnew DW, Newell-Fugate AE. 2019. Retrospective characterization of reproductive tract lesions in relation to age, parity, and contraception in captive suidae and tayassuidae. Theriogenology 127: 137-144. <https://doi.org/10.1016/j.theriogenology.2019.01.012>
5. Jankowski G, Moresco A, Han S. 2019. Endoscopy guided transcervical endometrial biopsy in zoo species. Proc. Am. Assoc. Zoo Vet. pp. 4.
6. Moresco, A, Jankowski G, Faliano A, Crook E, Penfold LM. 2019. Ovarian suppression with Improvest®, a GnRH immunological product in Giraffe (*Giraffa spp*) under managed care Proc. Int. Soc. Wildl. Endocrinol. pp.
7. Strachota J, Jacobs CC, Agnew DW, Roberts J. 2019. Diagnosis and management of cystic endometrial hyperplasia in a pot-bellied pig. Clin. Theriogenol. 11: 487.

## 2018 and before

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1. Agnew M, Feltrer Y, Agnew D, Christensen B, Penfold L, Moresco A. 2016. Reproductive management: approaches to choosing contraceptives and diagnosing infertility. Proc Am Assoc Zoo Vet.
2. Agnew DW, Christiansen B, Schlafer DH, Wang C, Asa C. 2012. Use of transcervical endometrial biopsy to monitor uterine health in canids. Annual Michigan Alliance for Reproductive Technologies and Science Research Symposium (MARTS). Detroit, MI.
3. Agnew DW, Moresco A. 2012. The Contraceptive Health Surveillance Program: The Veterinarian's Important Role. AAZV Annual conference, Oakland, CA.
4. Agnew DW, Moresco A. 2014. What's in a pituitary? The importance of the pituitary gland in diagnostic medicine. AAZV Annual Conference, Orlando, FL.
5. Agnew DW, Munson L, Ramsay EC. 2004. Cystic endometrial hyperplasia in elephants. Vet. Pathol. 41: 179-183. <https://doi.org/10.1354/vp.41-2-179>
6. Asa C, Zaneveld LJD, Munson L, Callahan M, Byers AP. 1996. Efficacy, safety, and reversibility of a bisdiamine male-directed oral contraceptive in gray wolves (*Canis lupus*). J. Zoo Wildl. Med. 27: 501-506.

7. Asa C, Agnew D, Moresco A, Christensen B, Agnew M. Zoo Animal Infertility Workshop. 2014. Mid-year Meeting, Association of Zoos and Aquariums, Memphis, TN. (team presentation).
8. Chassy LM, Gardner IA, Plotka ED, Munson L. 2002. Genital tract smooth muscle tumors are common in zoo felids but are not associated with melengestrol acetate contraceptive treatment. *Vet. Pathol.* 39: 379-385.
9. Corner S, Parys M, Moresco A, Yuzbasiyan-Gurkan V, Agnew D. 2017. Ovarian adenocarcinoma in jaguars (*Panthera onca*): A naturally-occurring model of human inherited ovarian cancer? In: *Am. Assoc. Cancer Res.* p. TMEM-020.
10. Christensen BW, Schlafer DH, Agnew DW, Wang C, Kozlowski C, Asa CS. 2012. Diagnostic value of transcervical endometrial biopsies in domestic dogs compared with full-thickness uterine sections. *Reprod. Domest. Anim.* 47 (Suppl. 6): 342-346.
11. Child O, Agnew D. 2015. Variation of Uterine Endometrial Epithelial Cells throughout the Estrous Cycle in Wild and Domestic Cats. Phi Zeta Research Day, 2015. MSU, CVM, East Lansing, MI.
12. Child O, Agnew D. Variation of Uterine Endometrial Epithelial Cells throughout the Estrous Cycle in Wild and Domestic Cats. University Undergraduate Research and Arts Forum, Michigan State University. East Lansing, MI, 10 Apr 2015.
13. Coe S, Corner S, Moresco A, Agnew D. Relationship between Bcl-2, contraceptives, and reproductive tract leiomyomas in large felids. 2015. Phi Zeta Research Day, 2015. MSU, CVM, East Lansing, MI. 2 Oct.
14. Coe S, Corner S, Moresco A, Agnew D. Relationship between Bcl-2, contraceptives, and reproductive tract leiomyomas in large felids. MSU Women's Health Conference, 2015. MSU, East Lansing, MI. 20 Nov, 2015.
15. Coe S, Corner S, Moresco A, Agnew D. Relationship between Bcl-2, contraceptives, and reproductive tract leiomyomas in large felids. 2015 Meriel-NIH National Veterinary Scholars Symposium, Davis, CA.
16. Corner S, Agnew D, Nolan A, Yuzbasiyan-Gurkan, V. 2014. BRCA mutations and breast cancer in humans and jaguars. *Zoobiquity*, 2014. University of Washington and Woodland Park Zoo. Seattle, WA.
17. Corner S, Parys M, Agnew D, Moresco A, Yuzbasiyan-Gurkan V. 2015. Ovarian adenocarcinoma in captive North American jaguars (*Panthera onca*) tumor characterization and investigation of BRCA1 mutations. *Proc Am Assoc Zoo Vet.*
18. Corner S, Parys M, Agnew D, Moresco A, Yuzbasiyan-Gurkan, V. 2015. Ovarian adenocarcinoma in captive North American jaguars (*Panthera onca*): Tumor characterization and investigation of BRCA1 mutations. AAZV annual meeting. Portland, OR.
19. Corner S, Parys M, Nolan E., Agnew D, Yuzbasiyan-Gurkan V. 2014. Investigation of BRCA1 mutations and ovarian carcinoma in captive jaguars (*Panthera Onca*). 2014 Phi Zeta Research Day. MSU, CVM, East Lansing, MI.

20. de Castellanos R, Agnew D. 2014. Correlation of uterine histology with estrous cycle in domestic and wild felids. Meril-NIH National Veterinary Scholars Symposium, Ithaca NY, 30 Jul-3 Aug.
21. de Castellanos R, Agnew D. 2014. Correlation of uterine histology with estrous cycle in domestic and wild felids. Phi Zeta Research Day. MSU, CVM, East Lansing, MI.
22. French SJ, Moresco A, Agnew DW. 2013. The effects of contraceptives on the reproductive tract of female otters. AAZV annual meeting. Salt Lake City, UT.
23. Goblet CC, Moresco A, Agnew D, Garner M, Newell-Fugate A. 2017. Retrospective characterization of reproductive tract lesions in relation to age, parity, and contraception in captive female *suidae* and *tayassuidae*. Proc. Am. Assoc. Zoo Vet. p. 122-123.
24. Greene LK, Wallen TW, Moresco A, Goodwin TE, Drea CM. 2016. Reproductive endocrine patterns and volatile urinary compounds of *Arctictis binturong*: discovering why bearcats smell like popcorn. The Science of Nature. 103(5): 1-11. <https://doi.org/10.1007/s00114-016-1361-4>
25. Harrenstien LA, Munson L, Seal US, and American Zoo and Aquarium Association Mammary Cancer Study Group. 1996. Mammary cancer in captive wild felids and risk factors for its development: A retrospective study of the clinical behavior of 31 cases. J. Zoo Wildl. Med. 27: 468-476.
26. Harrenstien LA, Munson L, Chassy LM, Liu IK, and Kirkpatrick JF. 2004. Effects of porcine zona pellucida immunocontraceptives in zoo felids. J. Zoo Wildl. Med. 35: 271-279.
27. Kazensky CA, Munson L, and Seal US. 1998. The effects of melengestrol acetate on the ovaries of captive wild felids. J. Zoo Wildl. Med. 29: 1-5.
28. McAloose D, Munson L, and Naydan DK. 2007. Histologic features of mammary carcinomas in zoo felids treated with melengestrol acetate (MGA) contraceptives. Vet. Pathol. 44: 320-326.
29. McGowen MR, Weckle A, Agnew DW, Benirschke K, Savage-Rumbaugh S, Kim CJ, Wagner GP, Romero R, Wildman DE. 2013. Gene expression in the term placenta of the opossum *Monodelphis domestica* and the evolution of the therian placenta. IFPA (International Federation of Placenta Association) conference, Whistler, BC, Canada.
30. McGowen MR, Weckle A, Agnew DW, Benirschke K, Kim CJ, Wagner GP, Romero R, Wildman DE. 2013. The evolution of gene expression in the term placenta of viviparous mammals. Simposio Latinoamericano de Interacción Materno-Fetal y Placenta (SLIMP). Parana, Brazil, 18-19 Feb.
31. Kirkpatrick JF, Liu I, Chassy L, Munson L. 1997. The effect of immunocontraception on the behavior and reproduction of white-tailed deer. J. Wildl. Manage. 61: 560-569.
32. Melvin R, Agnew D. Otter oviducts and diapause. 2016. Michigan State University NIH summer Research Program. MSU, East Lansing, MI.
33. Melvin R, Moresco A, Bateman H, Agnew D. 2017. Oviduct morphology and prolactin receptor expression in North American River Otters and Asian small clawed otters. Proc. Am. Assoc. Zoo Vet. p. 213



34. Moresco A, Agnew DW. 2018. The reproductive health surveillance program. The value of an archive. Connect.
35. Moresco, A Agnew DW. 2013. Reproductive health surveillance in zoo and wildlife medicine. J. Zoo Wildl. Med. 44 (4s): S26-S33.
36. Moresco A, Dadone L, Arble J, Klaphake E, Agnew D. 2014. Location and removal of deslorelin acetate implants in female African lions (*Panthera leo*). J Zoo Wildl Med. 45(2):397-401.
37. Moresco, A, Larsen RS, Boon D, O'Brien JK, Stoops, MA. 2015. Semen collection in black rhinoceros (*Diceros bicornis*) via urethral catheterization. Proc Am Assoc Zoo Vet.
38. Moresco A, Munson L, and Gardner IA. 2009. Naturally occurring and melengestrol acetate-associated reproductive tract lesions in zoo canids. Vet. Pathol. 46: 1117-1128.
39. Moresco, A and Penfold LM. 2014. Failure to reproduce, who's invited? Proc Am Assoc Zoo Vet.
40. Munson L. 1993. Adverse effects of contraceptives in carnivores, primates, and ungulates. Proc. Am. Assoc. Zoo Vet. 284-289.
41. Munson L. 1994. A high prevalence of ovarian papillary cystadenocarcinomas in jaguars (*Panthera onca*). Vet. Pathol. 31: 604.
42. Munson L. 2006. Contraception in felids. Theriogenology 66: 126-134.
43. Munson L, Bauman JE, Asa CS, Jöchle W, Trigg TE. 2001. Efficacy of the GnRH analogue deslorelin for suppression of oestrous cycles in cats. J. Reprod. Fert. Suppl. 57: 269-273.
44. Munson L, Chassy LM, Asa CS. 2004. Efficacy, safety and reversibility of bisdiamine as a male contraceptive in cats. Theriogenology 63: 81-92.
45. Munson L, Gardner IA, Mason RJ, Chassy LM, Seal US. 2002. Endometrial hyperplasia and mineralization in zoo felids treated with melengestrol acetate contraceptives. Vet. Pathol. 39: 419-427.
46. Munson L, Harrenstien LA, Acton AE, Graham PA, Chassy LM, Kirkpatrick JF. 2005. Immunologic responses and adverse reactions to Freund's-adjuvanted porcine zona pellucida immuno-contraceptives in domestic cats. Vaccine 23: 5646-5654.
47. Munson L Moresco A. 2007. Comparative pathology of mammary gland cancers in domestic and wild animals. Breast Dis. 28: 7-2.
48. Munson L, Moresco A, Calle PP. 2005. Adverse effects of contraceptives in captive and free-ranging wildlife. In Wildlife Contraception: Issues, Methods, and Applications. Asa CS and Porton IJ Eds. Johns Hopkins University Press, Baltimore, Maryland. p 66-82.
49. Munson L, Stokes JE, Harrenstien LA. 1995. Uterine cancer in zoo felids on progestin contraceptives. Vet. Pathol. 32: 578.
50. Nolan A, Corner S, Agnew D, Yusbasiyan-Gurkan V. Investigation of ovarian carcinoma and BRCA1 mutation in captive North American jaguars (*Panthera onca*). Merial-NIH National Veterinary Scholars Symposium, Ithaca NY, 30 Jul-3 Aug 2014.
51. Pesavento PA, Agnew D, Keel MK, Woolard KD. 2018. Cancer in wildlife: patterns of emergence. Nat Rev Cancer (10):646-661.

52. Powers J, Moresco A. 2015. Review of ungulate fertility control in the National Park Service: Outcomes and recommendations from an internal workshop - February 2012. Natural Resource Report NPS/NRSS/NRR—2015/1038. National Park Service, Fort Collins, Colorado.
53. Raffel R, Moresco A, Agnew D. Uterine leiomyomas in great apes. Phi Zeta Research Day, 2015. MSU, CVM, East Lansing, MI.
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