

Murray E. Fowler: Curriculum Vitae

Birth: July 17, 1928, Glendale, Whidbey Island, Washington

Death: May 18, 2014, Davis, Yolo County, California

Early Life: Raised on a small farm in East Crescent, Utah

MILITARY SERVICE

US Navy, July 1, 1946, to June 30, 1948—Pharmacist's Mate Third Class, US Naval Hospital, San Diego, California. Graduated from ROTC [Reserve Officer Training Corps] at Utah State University and became a First Lieutenant in the US Army Reserve (Quartermaster Officer), serving from 1952 to 1957.

FAMILY

Married to Audrey Cooley Fowler, June 5, 1950, Logan, Cache County, Utah

Children: Alan Douglas, Gene Scott, Janet, Linda, and Patricia

EDUCATION

1946 Jordan High School, Sandy, Utah

1946 (October through December) Hospital Corps School, US Navy

1948–1952 BS Animal Science, Utah State Agricultural College (now Utah State University)

1951–1955 DVM, Iowa State College (now Iowa State University)

1975 Foreign Animal Disease Course, USDA, Plum Island, New York

RELIGIOUS ACTIVITIES

Member of the Church of Jesus Christ of Latter-Day Saints (Mormon)

1960–1966 Member of a bishopric

1967–1972 Bishop

1973–1988 Stake High Council

1980–1988 President of Stake Young Men (Youth, 12–18)

Served in numerous callings over the years

1967–2000 Stake Mission to Winters Branch

November 2002–November 2003 Mission to Nauvoo, Illinois



SCIENTIFIC AND PROFESSIONAL ORGANIZATIONS

Alpha Zeta, Gamma Sigma Delta, Phi Zeta, Phi Kappa Phi, Sigma Xi, American College of Veterinary Toxicology, American Board of Veterinary Toxicology, American Association of Zoo Veterinarians, American Veterinary Medical Association, Wildlife Disease Association, California Veterinary Medical Association, International Association of Aquatic Animal Medicine, American College of Veterinary Internists, American Association of Zoological Parks and Aquariums, East African Wildlife Society, Association of Avian Veterinarians, American College of Zoological Medicine

SPECIAL TRAINING IN ZOOLOGICAL MEDICINE

No training programs were available when I started in this field. I have attended numerous seminars, short courses, and conferences in the United States and internationally.

Sabbatical year at the San Diego Zoo developing keeper training programs and working with the clinician and pathologist.

Sabbatical year in Europe collecting reference material for a bibliography on zoological medicine. Visited thirty zoos in ten different countries. Three months with the veterinary staff at the London Zoo.

Developed and taught classes in zoological medicine for twenty-eight years.

SPECIALTY BOARD CERTIFICATIONS

Diplomate, American Board of Veterinary Toxicology: Certified, July 1969

Diplomate, American College of Veterinary Internal Medicine: Charter, 1973

Diplomate, American College of Zoological Medicine: Charter, 1984

NONTRADITIONAL ANIMAL MEDICINE ACTIVITIES

Assumed responsibility for program in zoological medicine at the University of California, School of Veterinary Medicine, in 1967. More than 80–85 percent of time devoted to nontraditional animal medicine. Veterinary services provided to three small zoos (Sacramento, Lodi, and Folsom).

Maintained clinic for non-domestic species and nontraditional species within the Veterinary Medical Teaching Hospital at the University of California from 1974–1993.

Taught and conducted research in nontraditional animal species since 1967.

Supervised raptor rehabilitation center on the Davis campus that released about five hundred raptors each year and maintained one hundred or more birds for research.

Experienced working with all groups of vertebrate animals.

COURSES TAUGHT

Veterinary Therapeutics, 1958–1962
Surgical Laboratory (large animal), 1958–1964
Clinical Orientation (animal restraint), 1958–1966
Clinical Toxicology, 1958–1973
Poisonous Plant Identification, 1968–1980
Cage Bird Medicine & Surgery, 1971–1989
Diseases of Free-Ranging Wild Animals, 1969–1992
Medicine & Surgery of Nondomestic Animals, 1970–1993
Diseases of Captive Wildlife, 1974–1993
Clinics—Large Animal Medicine & Surgery, 1958–1971
Clinics—Non-Domestic Animal Medicine & Surgery, 1969–1993
Seminars in Zoological Medicine, 1974–1979
Veterinary Toxicology, 1964–1987

COMMUNITY INVOLVEMENT

A registered adult Scout leader for fifty years. Served as institutional representative, Cubmaster, Webelos leader, Scout master, and Explorer leader at the unit level.
Chairman Training Committee. Yolo District Boy Scouts of America, 1979–1983
Wood Badge Training Instructor, Boy Scouts of America, 1979, 1982
Commissioner Staff, Yolo District, Boy Scouts of America, 1977–1984
Yolo District, Golden Empire Council, district commissioner, 1998–1999
Yolo District, chairman, Training Committee, 1999–2002

HONORS AND AWARDS

Professional

Annual faculty teaching award presented by the senior class (1964 and 1979) of the School of Veterinary Medicine
Stange Memorial Alumni Award from the Veterinary School, Iowa State University, Ames, Iowa, June 1989
Maagizo Award, presented for the first time by the Sacramento Zoological Society, for Outstanding Service to the Sacramento, California, Zoo, March 1992



HONORS AND AWARDS *continued*

Parke Davis Veterinary Award for Outstanding Contributions to Zoological Medicine, November 1994, British Veterinary Zoological Society, London, England

Murray Fowler Achievement Award, May 1995, California International Llama Association; first time the award was presented; award named after Murray Fowler

Emil P. Dolensek Memorial Award for Outstanding Contributions to Zoological Medicine, American Association of Zoo Veterinarians, October 1995

R. Marlin Perkins Award, Association of Zoos and Aquariums, 2001, for the highest lifetime professional excellence

American Veterinary Medical Association Animal Welfare Award, October 2002, for the highest lifetime professional excellence in caring for zoo and wild animals

New Sacramento Zoo hospital named the Murray E. Fowler Zoo Hospital, November 9, 2006

Honorary PhD degree, Federal University of Paraná, Curitiba, Brazil

Public Service

Silver Bear—Boy Scouts of America 1969

Silver Beaver—Boy Scouts of America 1977

Special “Murray Fowler” day presented by the Llama Industry—September 1984

EMPLOYMENT

June–September 1951	Utah State Agricultural College, Logan, Utah, Veterinary Clinic	Technician
June 1952–June 1955	Iowa State University, Vet. Anatomy Ames, Iowa	Graduate Assistant
June 1953–June 1955	Ames Drive-In Movie Ames, Iowa	Assistant Manager
June 1953–June 1955	Iowa State University, Vet. Clinic Ames, Iowa	Student Assistant
June 1954–June 1955	Ames Medical Group, Ames, Iowa	Medical Technician
July 1955–July 1958	Private Practice	Veterinarian
July 1958–July 1960	Department of Clinical Sciences Large Animal Medicine & Surgery School of Vet. Medicine University of California, Davis	Instructor

EMPLOYMENT *continued*

July 1960–July 1966	Department of Clinical Sciences Large Animal Medicine & Surgery School of Vet. Medicine University of California, Davis	Assistant Professor
July 1964–June 1965	Toxicology Medical Research Council Labs, Carshalton, England	Research Fellow
July 1966–July 1972	Department of Clinical Sciences Large Animal Medicine & Surgery University of California, Davis	Associate Professor
July 1972–July 1973	San Diego Zoological Garden San Diego, California	Research Fellow
July 1972–July 1973	Department of Clinical Sciences School of Vet. Medicine University of California, Davis	Professor
July 1973–October 1973	Faculty of Veterinary Medicine Makerere University, Kampala, Uganda	Professor of Veterinary Medicine
July 1973–July 1983	Department of Medicine School of Vet. Medicine University of California, Davis	Professor & Chairman of Department
July 1983–1991	Department of Medicine School of Vet. Medicine University of California, Davis	Professor
1968–1991	Veterinary Medicine Teaching Hospital University of California, Davis	Chief of Service for Zoological Medicine
1991–2014	Dept. of Medicine and Epidemiology School of Vet. Medicine University of California, Davis	Professor Emeritus



PUBLISHED BOOKS (AUTHOR, COAUTHOR, OR EDITOR)

- 1978 Fowler, M.E.: *Restraint and Handling of Wild and Domestic Animals*. Ames, IA, Iowa State University Press.
- 1978 Fowler, M.E. (editor-in-chief): *Zoo and Wild Animal Medicine*. Philadelphia, PA, W.B. Saunders.
- 1978 Fowler, M.E.: *Plant Poisoning and Biotoxins*. Davis, CA, Davis Reprographics, UCD.
- 1980 Fowler, M.E.: *Plant poisoning in small companion animals*. St. Louis, MO, Ralston Purina Co.
- 1986 Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders.
- 1989 Fowler, M.E.: *Medicine and Surgery of South American Camelids*. Ames, IA, Iowa State University Press.
- 1993 Fowler, M.E.: *Veterinary Zootoxicology*. Boca Raton, FL, CRC Press.
- 1993 Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine. Current Veterinary Therapy*, 3rd ed. Philadelphia, PA, W.B. Saunders.
- 1995 Hoffman, E., and Fowler, M.E.: *The Alpaca Book*. Pioneer, CA, Clay Press.
- 1995 Fowler, M.E.: *Restraint and Handling of Wild and Domestic Animals*, 2nd ed. Ames, IA, Iowa State University Press.
- 1995 Fowler, M.E., and Fowler, A.: *First Aid for Llamas and Alpacas*. Pioneer, CA, Clay Press.
- 1996 Fowler, M.E. (ed.): "Wildlife Husbandry and Diseases." Paris, International office of Epizootics, *Revue Scientifique et Technique*, 15(1), March 1996.
- 1998 Fowler, M.E. (ed.): *Medicine and Surgery of South American Camelids*, 2nd ed. Ames, IA, Iowa State University Press.
- 1998 Fowler, M.E. (ed.): "Zoo and Wild Animal Medicine." *Current Veterinary Therapy*, 4th ed. Philadelphia, PA, W.B. Saunders.
- 1998 Wernery, U., Fowler, M.E., and Wernery, R.: *Color Atlas of Camelid Hematology*. Berlin, Parey Buchverlag.
- 1998 Fowler, M.E.: *Poisonous Plants—A Veterinary Guide to Toxic Syndromes*. CD-ROM, Davis, CA, Computer Assisted Learning Facility, School of Veterinary Medicine, University of California.
- 1999 Fowler, M.E.: *Murray—Hummingbirds to Elephants: Autobiography of Murray E. Fowler, DVM*. Jackson, CA, Clay Press.

PUBLISHED BOOKS (AUTHOR, COAUTHOR, OR EDITOR) *continued*

- 2001 Fowler, M.E., Cubas, Z. (eds.): *Biology, Medicine and Surgery of South American Wild Animals*. Ames, IA, Iowa State University Press.
- 2003 Fowler, M.E., and Miller, R.E. (eds.): *Zoo and Wild Animal Medicine*, 5th ed. St. Louis, MO, Elsevier.
- 2006 Fowler, M.E., and Mikota, S.K. (eds.): *Biology, Medicine and Surgery of Elephants*. Ames, IA, Blackwell Publishing.
- 2006 Fowler, M.E.: *History of the American Association of Zoo Veterinarians*. CD-ROM, Yulee, FL, American Association of Zoo Veterinarians.
- 2007 Fowler, M.E., and Miller, R.E.: *Zoo and Wild Animal Medicine*, 6th ed. St. Louis, MO, Elsevier, pp. 540.
- 2008 Fowler, M.E.: *Restraint and Handling of Wild and Domestic Animals*, 3rd ed. Ames, IA, Wiley-Blackwell.
- 2010 Fowler, M.E.: *Medicine and Surgery of Camelids*, 3rd ed. Ames, IA, Wiley-Blackwell.
- 2011 Miller, R. E., and Fowler, M.E.: *Zoo and Wild Animal Medicine*, 7th ed. St. Louis, MO, Elsevier.

Proceedings

- 1983 Fowler, M.E.: “Spezieller klinische anatomie und physiologie bei Kamelen und lamas.” (“Special clinical anatomy and physiology in camels and llamas.”) 3rd Arbeitslungung der Zootierärzte in Deutschsprachiger Raum. Frankfurt, November.
- 1992 Bravo, P.W., Stabenfeldt, G.H., Fowler, M.E., Lasley, B.L., and Frey, R.E.: “Testes development and testosterone concentrations in the llama (*Lama glama*).” 12th International Congress on Animal Reproduction. The Hague, The Netherlands, August 23–27, Congress Proceedings, Volume 4, p. 1698–1700.
- 1992 Fowler, M.E.: “Anaesthesia and surgery in camels.” 1st International Camel Conference, p. 341–346.

Teaching Outlines—Technical

- 1967 Fowler, M.E.: *Clinical Veterinary Toxicology*. University of California (UCD) Reprographics.
- 1970 Fowler, M.E.: *Poisonous Plant Identification*. Department of Clinical Sciences.
- 1971 Fowler, M.E.: *Caged Bird Medicine and Surgery*. UCD Reprographics.
- 1971 Fowler, M.E.: *Diseases of Free Living Wild Animals*. UCD Reprographics.



PUBLISHED BOOKS (AUTHOR, COAUTHOR, OR EDITOR) *continued*

- 1971 Fowler, M.E.: *Diseases of Zoo Animals and Exotic Pets*. UCD Reprographics.
- 1975 Fowler, M.E.: *Cage Birds—Medicine and Surgery*. UCD Reprographics.
- 1976 Fowler, M.E.: *Plant Poisoning and Biotoxins*. UCD Reprographics, 190 pages.
- 1976 Fowler, M.E.: *Zoological Medicine*. UCD Reprographics, complete revision of *Zoo Animals and Exotic Pets*.
- 1978 Fowler, M.E.: *Diseases of Free Living Wild Animals*. UCD Reprographics.

PUBLICATIONS

- 1960 Fowler, M.E.: "Scurvy in an elephant." *Cornell Veterinarian* 50:171–176.
- 1960 Fowler, M.E.: "Breeding and conformation." *American Quarter Horse Journal*.
- 1960 Fowler, M.E.: "Extracting canine teeth in a bear." *Journal of the American Veterinary Medical Association* 137:60–61.
- 1960 Crenshaw, G.L., McLaughlin, R., Edwards, D., Canada, R.O., Parker, E., Tyler, W.S., and Fowler, M.E.: "The bronchial artery in relation to experimental production of emphysema." International Congress for Diseases of the Thorax, August 29.
- 1960 Fowler, M.E.: "100 miles 1 day." *Western Horseman* 25:92.
- 1961 Fowler, M.E.: "Gastric impaction and dilation in cattle." Chapter in *Merck Veterinary Manual*, 2nd ed., 131–133.
- 1961 Fowler, M.E.: "Veterinary problems in ponies." *Welsh Pony Newsletter* 2, No. 1, March.
- 1961 Straub, O.C., and Fowler, M.E.: "Repair of perineal lacerations in the mare and cow." *Journal of the American Veterinary Medical Association* 138:659–664.
- 1961 Fowler, M.E.: "Plant poisoning in the equine: castorbean, oleander and yellow star thistle." Proceedings of the 9th Annual American Association Equine Practice Convention.
- 1962 Fowler, M.E., and Getty, R.: "Technique for embedding brain slices in plastic." *Iowa State Veterinarian* 29:16–19.
- 1962 Fowler, M.E.: "Veterinarians role in poison plant problems." *Modern Veterinary Practice* 43:43–44.
- 1962 Theilen, G.H., and Fowler, M.E.: "Lymphosarcoma (lymphocytic leukemia) in the horse." *Journal of the American Veterinary Medical Association* 140:923–930.
- 1963 Fowler, M.E., Parker, E.E., McLaughlin, R.F. Jr., and Tyler, W.S.: "An inhalation anesthetic apparatus for large animals." *Journal of the American Veterinary Medical Association* 143:272–276.



PUBLICATIONS *continued*

- 1963 Fowler, M.E., Crenshaw, G.L., Edwards, D.W., Holloway, C.K., and Watley, J.L.: "Intrathoracic surgery in the horse." *American Journal of Veterinary Research* 24:766–771.
- 1963 Cardinet, G.H. III, Fowler, M.E., and Tyler, W.S.: "The effects of training, exercise and tying-up on serum transaminase in the horse." *American Journal of Veterinary Research* 24:980–984.
- 1963 Fowler, M.E.: "Poisonous plant problems in the horse." In *Equine Medicine and Surgery*. Santa Barbara, CA, American Veterinary Publications Inc., 528–539.
- 1963 Fowler, M.E.: "Rectovaginal surgery." In *Equine Medicine and Surgery*. Santa Barbara, CA, American Veterinary Publications Inc., 730–735.
- 1963 Cardinet, G.H. III, Fowler, M.E., and Tyler, W.S.: "Heart rates and respiratory rates for evaluating performance in horses during endurance trail ride competition." *Journal of the American Veterinary Medical Association* 143:1303–1309.
- 1963 Cardinet, G.H. III, Fowler, M.E., and Tyler, W.S.: "Sustained effects of strenuous exercise on the hemogram and blood chemistry of thoroughbred horses." *American Zoologist* 3, No. 4.
- 1964 Fowler, M.E., Cornelius, C.E., and Baker, N.F.: "Clinical and erythrokinetic studies on a case of bovine polycythemia vera." *Cornell Veterinarian* 54:153–159.
- 1964 Cupps, P.T., Laben, R.C., Fowler, M.E., and Briggs, J.R.: "Testicular degeneration associated with kidney damage in the bull." *Journal of Dairy Science* 47:433–436.
- 1964 Fowler, M.E.: "Differential diagnostic problems in plant poisonings." *Annals of the New York Academy of Sciences* 3, Article 2, 577–582.
- 1964 Tucker, J.M., Fowler, M.E., Harvey, W.A., and Berry, L.J.: "Poisonous hemlocks, their identification and control." California Agricultural Experiment Station, Circular 530.
- 1965 Fowler, M.E.: "Congenital atresia of the parotid duct in a horse." *Journal of the American Veterinary Medical Association* 146:1403–1404.
- 1965 Fowler, M.E.: "Clinical manifestations of primary hepatic insufficiency in the horse." *Journal of the American Veterinary Medical Association* 147:55–64.
- 1965 Fowler, M.E.: "Nigropallidal encephalomalacia in the horse." *Journal of the American Veterinary Medical Association* 147:607–616.
- 1965 Fowler, M.E., and Richards, W.P.C.: "Acorn poisoning in a cow and a sheep." *Journal of the American Veterinary Medical Association* 147:1215–20.
- 1965 McLaughlin, R.F., Tyler, W.S., Edwards, D.W., Crenshaw, G.L., Canada, R.O., Fowler, M.E., Parker, E.A., and Reifenstein, G.H.: "Chlorpromazine-induced emphysema." *American Review of Respiratory Diseases* 92, No. 4.



PUBLICATIONS *continued*

- 1966 Dungworth, D.L., and Fowler, M.E.: "Cerebellar hypoplasia and degeneration in a foal." *Cornell Veterinarian* 56:18–23.
- 1966 Eberly, V.E., Tyler, W.S., Gillespie, J.R., and Fowler, M.E.: "Cardiovascular parameters in emphysematous and control horses." *Journal of Applied Physiology* 21:883–888.
- 1968 Fowler, M.E.: "Pyrrolizidine alkaloid poisoning in calves." *Journal of the American Veterinary Medical Association* 152:1131–1137.
- 1968 Eberly, V.E., Gillespie, J.R., Tyler, W.S., and Fowler, M.E.: "Cardiovascular values in the horse during halothane anesthesia." *American Journal of Veterinary Research* 29:305–314.
- 1968 Fowler, M.E.: "Exotic plants—A hazard to animals." *Southwestern Veterinarian* 21:195–198.
- 1970 Schoental, R., Fowler, M.E., and Coady, A.: "Islet cell tumors of the pancreas found in rats given pyrrolizidine alkaloids from *Amsinckia intermedia* Fisch and Mey and from *Heliotropium supinum* L." *Cancer Research* 30:2127–2131.
- 1970 Fowler, M.E., Berry, L.J., Bushnell, R., and Hinkley, H.: "*Sphenosciadium capitellatum* (Whiteheads) toxicosis of cattle and horses." *Journal of the American Veterinary Medical Association* 157:1187–1192.
- 1970 Fowler, M.E., and Gourley, I.M.: "Pyloric stenosis in a Bengal tiger (*Panthera tigris*).\" *Journal of Zoo Animal Medicine* 1:22–25.
- 1970 Fowler, M.E.: "Amputation of the tail in an Asian elephant." *Journal of Zoo Animal Medicine* 1:22–25.
- 1971 Fowler, M.E.: "Idiopathic paralysis in horses." *California Veterinarian* 25:19.
- 1971 Theilen, G.H., Wolfe, L., Rabin, H., Deinhardt, F., Dungworth, D.L., Fowler, M.E., Gould, D., and Cooper, R.: "Biological studies in four species of nonhuman primates with simian sarcoma virus (*Lagothrix* spp)." Fifth International Comparative Symposium on Leukemia Research, Padova, Italy, September 13–17.
- 1971 Theilen, G.H., Gould, D., Fowler, M.E., and Dungworth, D.L.: "C-type virus in tumor tissue of a woolly monkey (*Lagothrix* spp) with fibrosarcoma." *Journal of the National Cancer Institute* 47:881–889.
- 1972 Fowler, M.E.: "Diseases caused by chemical and physical agents." In *Equine Medicine and Surgery*, 2nd ed. Santa Barbara, CA, American Veterinary Publications Inc., 189–209.
- 1973 Fowler, M.E.: "Intrathoracic surgery in large animals." *Journal of the American Veterinary Medical Association* 162:967–973.



PUBLICATIONS *continued*

- 1973 Fowler, M.E., and Hart, R.: "Castration of an Asian elephant using etorphine anesthesia." *Journal of the American Veterinary Medical Association* 163:539–543.
- 1973 Fowler, M.E.: "Castration in an elephant." *Journal of Zoo Medicine* 4:25–27.
- 1973 Sedgwick, C.J., and Fowler, M.E.: "Methods of feeding mammals." Proceedings American Association of Zoo Veterinarians Annual Meeting, Columbus, OH, 177–221.
- 1974 Fowler, M.E.: "Veterinary aspects of restraint and transport of wild animals." *International Zoo Yearbook* 14:28–33, London Zoological Society.
- 1974 Fowler, M.E.: "Restraint and anesthesia in zoo animal practice." *Journal of the American Veterinary Medical Association* 164:706–711.
- 1974 Fowler, M.E.: "The teaching of exotic animal medicine in veterinary schools." *Journal of the American Veterinary Medical Association* 164:692–694.
- 1974 Fowler, M.E.: "Diseases of children acquired from non-domestic animals." *Current Problems in Pediatrics* 4:1–45.
- 1974 Fowler, M.E.: "Should a zoo accept the 'gift' pet animal?" Proceedings of Regional Conferences, American Association of Zoological Parks and Aquaria. Penticton, British Columbia, 140–144.
- 1974 Fowler, M.E.: "Multimedia instruction in keeper training." Proceedings of Regional Conferences, American Association of Zoological Parks and Aquaria. Penticton, British Columbia, 145–151.
- 1974 Fowler, M.E.: "Disease outbreaks in zoos from fly-in and climb-in animal visitors." Proceedings of Regional Conferences, American Association of Zoological Parks and Aquaria. Penticton, British Columbia, 152–155.
- 1974 Schulz, T.A., and Fowler, M.E.: "The clinical effects of CI 744 in *Chinchillas villidera* (Laniger)." *Laboratory Animal Science* 24:810–812.
- 1974 Riemann, H.P., Behymer, D.E., Fowler, M.E., Schulz, T.A., Lock, A., Orthoefer, J.G., Silverman, S., and Franti, C.E.: "Prevalence of antibodies to *Toxoplasma gondii* in captive exotic mammals." *Journal of the American Veterinary Medical Association* 165:798–800.
- 1974 Fowler, M.E., Silverman, S., Schulz, T.A., and Baker, N.: "Osseous hydatidosis in a Patas monkey." *Journal of the American Veterinary Medical Association* 165:840–844.
- 1974 Fowler, M.E.: "Some thoughts on handling large animals." *Journal of Zoo Medicine* 5:27–30.
- 1974 Riemann, H.P., Fowler, M.E., Schulz, T., Lock, J., Thilsted, J., Pulley, L.T., Henrickson, R.V., Henness, A.M., Franti, C.E., and Behymer, D.E.: "Toxoplasmosis in Pallas cats." *Journal of Wildlife Diseases* 10:471–477.



PUBLICATIONS *continued*

- 1975 Oehme, F.W., Brown, J.F., and Fowler, M.E.: "Toxins of animal origin." In Casarett, L.J., and Doull, J. (eds.): *Toxicology, the Basic Science of Poisons*. New York, NY, MacMillan Publishing Company Inc., 570–590.
- 1975 Fowler, M.E.: "Importation and possession of wild animals in California. Part 1." *The California Veterinarian* 29:16–21.
- 1975 Fowler, M.E.: "Toxicities in exotic and zoo animals." *Veterinary Clinics of North America* 5:685–698.
- 1976 Fowler, M.E.: "Wildlife disease training in colleges and universities of the world." Wildlife disease curricula in institutes of higher learning, Symposium 8. In Page, L.A. (ed.): *Wildlife Diseases*. New York, NY, Plenum Press, 345–359.
- 1976 Fowler, M.E.: "Importation and possession of wild animals in California. Part II." *The California Veterinarian* 30:8–10.
- 1976 Fowler, M.E.: "Veterinary surgeons in zoological medicine." *Veterinary Record* 99:265–267.
- 1976 Fowler, M.E.: "Causes of death during restraint practices." Proceedings of the American Association Zoo Veterinarians, St. Louis, MO, pp. 195–207.
- 1977 Fowler, M.E.: "Restraint mortality in wild animals." In Kirk, R.W. (ed.): *Current Veterinary Therapy VI*. Philadelphia, PA, W.B. Saunders, pp. 723–726.
- 1977 Fowler, M.E.: "Contributions of zoos to veterinary medicine." Proceedings of the Annual Meeting American Association of Zoological Parks and Aquaria.
- 1977 Fowler, M.E.: "Historical perspectives of the American Association of Zoo Veterinarians." *Journal of Zoo Animal Medicine* 8: centerfold.
- 1978 Fowler, M.E.: "Sanitation and disinfection." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*. Philadelphia, PA, W.B. Saunders, pp. 21–30.
- 1978 Fowler, M.E.: "Stress." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*. Philadelphia, PA, W.B. Saunders, pp. 31–34.
- 1978 Fowler, M.E.: "Restraint." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*. Philadelphia, PA, W.B. Saunders, pp. 35–54.
- 1978 Fowler, M.E.: "Metabolic Bone Disease." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*. Philadelphia, PA, W.B. Saunders, pp. 53–76.
- 1978 Temple, R., and Fowler, M.E.: "Amphibians (Amphibia)." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*. Philadelphia, PA, W.B. Saunders, pp. 79–88.



PUBLICATIONS *continued*

- 1978 Fowler, M.E.: "Penguins, cranes, storks, and flamingos (sphenisciformes, gruiformes, ciconiiformes, and phoenicopteriformes)." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*. Philadelphia, PA, W.B. Saunders, pp. 153–164.
- 1978 Fowler, M.E.: "Miscellaneous waterbirds (gaviiformes, podicipediformes, procellariiformes, pelicaniformes, and charadriiformes)." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*. Philadelphia, PA, W.B. Saunders, pp. 211–218.
- 1978 Fowler, M.E.: "Doves, hornbills, toucans, and tinamous (columbiformes, coraciiformes, piciformes, and tinamiformes)." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*. Philadelphia, PA, W.B. Saunders, pp. 323–334.
- 1978 Harrison, G.L., and Fowler, M.E.: "Rabbits, hares, and pikas (lagomorpha)." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*. Philadelphia, PA, W.B. Saunders, pp. 479–490.
- 1978 Fowler, M.E.: "Clinical experiences with tuberculosis in zoo artiodactylids." In Montali, R.J. (ed.): *Mycobacterial Infections of Zoo Animals*. Washington, DC, Smithsonian Institution.
- 1978 Fowler, M.E.: "Nutritional and metabolic diseases of cage birds." *Watchbird*. American Federation of Aviculture, December 4–9.
- 1978 Fowler, M.E.: "Treating giraffes with isoniazid." In Montali, R.J. (ed.): *Mycobacterial Infections of Zoo Animals*. Washington, DC, Smithsonian Institution.
- 1978 Fowler, M.E.: "Peracute mortality in captive giraffe." *Journal of the American Veterinary Medical Association* 173:1088–1093.
- 1978 Fowler, M.E.: "Hoof problems in zoo animals." Proceedings of the American Association of Zoo Veterinarians, Knoxville, TN, pp. 88–106.
- 1978 Fowler, M.E.: "Nutritional values of hard water." *Journal of Zoo Animal Medicine* 9:96–98.
- 1978 Fowler, M.E.: "Metabolic bone disease—a limiting factor in captive bird propagation." Proceedings of the First International Birds in Captivity Symposium, Seattle, WA, pp. 138–152.
- 1979 Fowler, M.E.: "Care of orphaned wild animals." *Veterinary Clinics of North America: Small Animal Practice* 9:447–471.
- 1979 Fowler, M.E.: "Cobra snakebite in a keeper." Proceedings of the American Association of Zoo Veterinarians, Denver, CO, pp. 8–10.



PUBLICATIONS *continued*

- 1979 Fowler, M.E.: "Snakebite first aid and therapy protocol for South African field work." Proceedings of the American Association of Zoo Veterinarians, Denver, CO, pp. 10–11.
- 1979 Fowler, M.E., Lavoipierre, M., and Shultz, T.: "Audycoptid mange in bears." Proceedings of the American Association of Zoo Veterinarians, Denver, CO, pp. 104–105.
- 1979 Abdel-Rasoul, K., and Fowler, M.E.: "An epidemiologic approach to the control of ascariasis in zoo carnivores." Proceedings of the American Association of Zoo Veterinarians, Denver, CO, pp. 105–106.
- 1980 Abdel-Rasoul, K., and Fowler, M.E.: "An epidemiologic approach to the control of ascariasis in zoo carnivores." Verhandlungsbericht des XXII Internationalen Symposiums ueber die Erkrankungen der Zootiere, Arnhem, Netherlands, pp. 273–277.
- 1980 Fowler, M.E., Lavoipierre, M., and Schulz, T.: "Audycoptid mite infestation in primates and bears." Verhandlungsbericht des XXII. Internationalen Symposiums ueber die Erkrankungen der Zootiere, Arnhem, Netherlands, pp. 283–287.
- 1980 Fowler, M.E.: "Differential diagnosis of respiratory diseases of reptiles." In Murphy, J., and Collins, J., (eds.): *Symposium on Reproduction in Reptiles. Repro. Biology and Diseases of Captive Reptiles*, pp. 227–233.
- 1980 Fowler, M.E.: "Plant poisoning in small companion animals." St. Louis, MO, Ralston Purina Co.
- 1980 Fowler, M.E.: "Respiratory disease in reptiles." In Kirk, R.W. (ed.): *Current Veterinary Therapy VII*. Philadelphia, PA, W.B. Saunders, pp. 633–637.
- 1980 Fowler, M.E.: "Hoof, claw, and nail problems in nondomestic animals." *Journal of the Veterinary Medical Association* 9:885–893.
- 1980 Fowler, M.E.: "Veterinary management of endurance trail rides." *Journal of the South African Veterinary Association* 51:81–83.
- 1980 Fowler, M.E.: "Exhausted horse syndrome." *Journal of the South African Veterinary Association* 51:85–86.
- 1980 Fowler, M.E.: "Veterinary problems during endurance trail rides." *Journal of the South African Veterinary Association* 51:87–91.
- 1980 Fowler, M.E., Jacobsen, N., Erb, L., and McDonald, S.: "Stress-induced mixed infection in Columbian black-tailed deer." In Montali, R.J., and Migaki, G. (ed.): *The Comparative Pathology of Zoo Animals*. Washington, DC, Smithsonian Institution Press, pp. 415–420.



PUBLICATIONS *continued*

- 1980 Fowler, M.E.: "Comparison of respiratory infection and hypovitaminosis A in desert tortoises." In Montali, R.J., and Migaki, G. (ed.): *The Comparative Pathology of Zoo Animals*. Washington, DC, Smithsonian Institution Press, pp. 93–97.
- 1980 Oehme, F.W., Brown, J.F., and Fowler, M.E.: "Toxins of animal origin." In Doull, J., Klassen, C.D., and Amdur, M.O. (ed.): *Toxicology*, 2nd ed. New York, NY, Macmillan, pp. 557–577.
- 1980 Snipes, K.P., Biberstein, E.L., and Fowler, M.E.: "A *Pasteurella* sp. associated with respiratory disease in captive desert tortoises." *Journal of the American Veterinary Medical Association* 177:804–807.
- 1980 Fowler, M.E.: "Medical problems of unusual birds." *Modern Veterinary Practice*, 61:720.
- 1981 Fowler, M.E.: "Ossification of long bones in raptors." In Cooper, J.E., and Greenwood, A.G. (ed.): *Recent Advances in the Study of Raptor Diseases*. Keighley, England, Cheron Publications, pp. 75–82.
- 1981 Fowler, M.E.: "Force-feeding techniques in wild animals." *Journal of Zoo Animal Medicine* 12:3–10.
- 1981 Fowler, M.E.: "Zootoxins." In Howard, J.L. (ed.): *Current Veterinary Therapy in Food Animal Practice*. Philadelphia, PA, W.B. Saunders, pp. 533–535.
- 1981 Fowler, M.E.: "Hepatotoxic plants." In Howard, J.L. (ed.): *Current Veterinary Therapy in Food Animal Practice*. Philadelphia, PA, W.B. Saunders, pp. 443–445.
- 1981 Fowler, M.E.: "Cardiotoxic plants." In Howard, J.L. (ed.): *Current Veterinary Therapy in Food Animal Practice*. Philadelphia, PA, W.B. Saunders, pp. 440–442.
- 1981 Fowler, M.E.: "Poisonous plants in harvested or prepared feeds." In Howard, J.L. (ed.): *Current Veterinary Therapy in Food Animal Practice*. Philadelphia, PA, W.B. Saunders, pp. 428–430.
- 1981 Fowler, M.E.: "Problems of immobilizing and anesthetizing elephants." Proceedings of the Annual Meeting of the American Association of Zoo Veterinarians, Seattle, WA, pp. 87–90.
- 1981 Fowler, M.E.: "Plant poisoning in captive nondomestic animals," *Journal of Zoo Animal Medicine* 12:134–137.
- 1982 Fowler, M.E., Ippen, R., and Schroeder, H.D.: "A bibliography of the proceedings of the international symposiums ueber die erkrankungen der zoo and wildtiere—1970–1980." Proceedings of the 24th ISEZW, Berlin, Akademie Verlag, pp. 1049.
- 1982 Fowler, M.E., Craigmill, A.L., Norman, B.B., and Michelsen, P.: "Livestock Poisoning Plants of California." Berkeley, CA, Cooperative Extension, University of California, pp. 1–23.



PUBLICATIONS *continued*

- 1982 Fowler, M.E.: "Wildlife disease in the Pacific basin (overview)." In Fowler, M.E. (ed.): *Wildlife Diseases of the Pacific Basin*. Ames, IA, Wildlife Disease Association, pp. 12–14.
- 1982 Fowler, M.E.: "Metabolic bone disease—a limiting factor in captive bird propagation." Proceedings of the First International Birds in Captivity Symposium, Seattle, WA, 1978, pp. 138–152. Published in 1982 by International Foundation for Conservation of Birds, North Hollywood, CA.
- 1982 Fenwick, B.W., Fowler, M.E., and Kock, M.: "Complete choanal atresia in a llama." *Journal of the American Veterinary Medical Association* 181:1409–1410.
- 1982 Fowler, M.E.: "Angular limb deformities in young llamas." *Journal of the American Veterinary Medical Association* 181:1338–1342.
- 1982 Fowler, M.E., and McDonald, S.E.: "Untoward effects of onychectomy in wild felids and ursids." *Journal of the American Veterinary Medical Association* 181:1242–1245.
- 1982 Kock, M.D., and Fowler, M.E.: "Urolithiasis in a three-month-old llama." *Journal of the American Veterinary Medical Association* 181:1411.
- 1982 Kollias, G.V. Jr., Thoen, C.O., and Fowler, M.E.: "Evaluation of comparative tuberculin skin testing in cervids naturally exposed to mycobacteria." *Journal of the American Veterinary Medical Association* 181:1257–1262.
- 1983 Fowler, M.E.: "Plant poisoning in free-living wild animals." *Journal of Wildlife Diseases* 19:34–43.
- 1983 Fowler, M.E.: "Delivery systems for chemical immobilization." In Nielsen, L., Haigh, J.C., and Fowler, M.E. (ed.): *Chemical Immobilization of North American Wildlife*. Milwaukee, WI, Wisconsin Humane Society, pp. 18–45.
- 1983 Fowler, M.E.: "Disinfectants and insecticide usage around birds and reptiles." In Kirk, R. (ed.): *Current Veterinary Therapy VIII, Small Animal*. Philadelphia, PA, W.B. Saunders, pp. 606–611.
- 1983 Fowler, M.E.: "Immunoprophylaxis in non-domestic carnivores." In Kirk, R.W. (ed.): *Current Veterinary Therapy VIII, Small Animal*. Philadelphia, PA, W.B. Saunders, pp. 1129–1131.
- 1983 Lowenstine, L.J., Fowler, M.E., and Flammer, K.: "Viral papilloma on the feet of cockatoos." Verhandlungsbericht des 25th Internationalen Symposium ueber die Erkrankungen de Zootiere, Vienna, pp. 85–87.
- 1983 Fowler, M.E., Zinkl, J., and Schulz, T.A.: "Safety trials of carbaryl and malathion for treating lung mites *Sternostoma Tracheocolum*, in small cage birds." Verhandlungsbericht des 25th Internationalen Symposiums ueber die Erkrankungen der Zootiere, Vienna, pp. 161–168.



PUBLICATIONS *continued*

- 1983 Fowler, M.E.: "The jugular vein of the llama—a clinical note." *Journal of Zoo Animal Medicine* 14:77–78.
- 1983 Fowler, M.E.: "Special clinical anatomy and physiology of camels and llamas." In *Arbeitslogung der Zootierärzte in Deutschsprachigen Raum*, Frankfurt, November.
- 1984 Fowler, M.E.: "Congenital and hereditary diseases of llamas." *Verhandlungsbericht des 26th Internationalen Symposiums über die Erkrankungen der Zootiere*, Berlin, pp. 153–158.
- 1984 Fowler, M.E.: "Clinical Anatomy of the Head and Neck of the Llama, *Lama glama*." In Ryder, O., and Byrd, M.L. (eds.): *One Medicine*. Heidelberg, Springer-Verlag, pp. 141–149.
- 1985 Paul-Murphy, J., Lowenstine, L., Turrel, J., Murphy, C., and Fowler, M.E.: "Malignant lymphoreticular neoplasm in an African gray parrot." *Journal of the American Veterinary Medical Association* 187:1216.
- 1985 Fowler, M.E., and Gillespie, D.: "Middle and inner ear infections in llamas." *Journal of Zoo Animal Medicine* 16:9–15.
- 1985 Fowler, M.E.: "Surgical Principles and Techniques in Nondomestic Animals." In Gourley, I.M., and Vasseur, P.B. (eds.): *General Small Animal Surgery*. Philadelphia, PA, J.B. Lippincott, pp. 1067–1082.
- 1985 Fowler, M.E.: "Tick paralysis." *California Veterinarian* 39 (March/April):25–26, 47.
- 1985 Fowler, M.E.: "Plant poisoning in two pack llamas." *California Veterinarian* 39 (May/June):17–20.
- 1985 Fowler, M.E.: "*Cephenemyia* sp. infestation in the llama." *California Veterinarian* 39 (November/December):9–12.
- 1985 Fowler, M.E., Gillespie, D., and Harkema, J.: "Lymphosarcoma in a llama." *Journal of the American Veterinary Medical Association* 187:1245–1246.
- 1985 Fowler, M.E.: "Livestock diseases caused by wild mammals." In Gaafar, S.M. (ed.): *Parasites, Pests and Predators*. Amsterdam, Elsevier, pp. 509–535.
- 1985 Fowler, M.E.: "A plea for more effective oral presentations." *Journal of the American Veterinary Medical Association* 187(3):234–238.
- 1985 Dunlop, C., Hodgson, D., Steffey, E., and Fowler, M.E.: "Observations during anesthetic management of an adult elephant." *Veterinary Surgery* 14(1):71–72.
- 1986 Paul-Murphy, J., Lloyd, K., Turrel, J., Blanchard, P.C., Gage, L., and Fowler, M.E.: "Management of a schwannoma in the larynx of a lion." *Journal of the American Veterinary Association* 189:1202–1203.



PUBLICATIONS *continued*

- 1986 Lloyd, K.C., Paul-Murphy, J., Anderson, C., Gage, L., Wheat, J.D., and Fowler, M.E.: "Surgical treatment of laryngeal ossification in a tiger." *Journal of the American Veterinary Medical Association* 189:1205–1206.
- 1986 Fowler, M.E.: "Plant Poisoning in Pet Birds and Reptiles." In Kirks, R. (ed.): *Current Veterinary Therapy IX, Small Animal*. Philadelphia, PA, W.B. Saunders, pp. 737–742.
- 1986 Fowler, M.E.: "Lice in llamas." *Avian/Exotic Practice* 3(1):22–25.
- 1986 Fowler, M.E.: "Preventive medicine." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 13–18.
- 1986 Fowler, M.E.: "Poisoning in wild animals." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 91.
- 1986 Fowler, M.E.: "Amphibians." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 99–106.
- 1986 Fowler, M.E.: "Tuberculosis." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 230–231.
- 1986 Fowler, M.E.: "Ornithosis (psittacosis)." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 230–231.
- 1986 Fowler, M.E.: "Storks and Flamingos." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 327–332.
- 1986 Fowler, M.E.: "Hornbills and toucans." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 457–462.
- 1986 Fowler, M.E.: "Restraint and anesthesia." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 488–497.
- 1986 Fowler, M.E.: "Hoof claw and nail problems in mammals." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 549–556.
- 1986 Fowler, M.E.: "Carnivora." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 800–806.
- 1986 Fowler, M.E.: "Ursidae." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 811–815.
- 1986 Fowler, M.E.: "Felidae." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 831–841.
- 1986 Fowler, M.E., and Nelson, L.: "Rhinocerotidae." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 934–938.
- 1986 Fowler, M.E., and Boever, W.J.: "Superfamily Suidoidae." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 964–966.



PUBLICATIONS *continued*

- 1986 Fowler, M.E., and Boever, W.J.: "Cervidae." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 981–985.
- 1986 Fowler, M.E., and Boever, W.J.: "Giraffidae." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 986–987.
- 1986 Fowler, M.E., and Dieterich, R.A.: "Musk-oxen." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 996–998.
- 1986 Fowler, M.E.: "Sheep and goats." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 999.
- 1986 Fowler, M.E.: "Camelid." In Fowler, M.E. (ed.): *Zoo and Wild Animal Medicine*, 2nd ed. Philadelphia, PA, W.B. Saunders, pp. 969–981.
- 1986 Fowler, M.E.: "Restraint techniques." In Jennings, P.B. (ed.): *The Practice of Large Animal Surgery*. Philadelphia, PA, W.B. Saunders.
- 1986 Fowler, M.E.: "Selenium: Friend or Foe." *Llamas* 31 (March/April):37–43.
- 1986 Fowler, M.E.: "Form, function, conformation and soundness." *Llamas* 35 (November/December):45–53.
- 1987 Fowler, M.E.: "Blood typing and parentage verification in llamas." *Llamas* 1(4):81–84.
- 1987 Fowler, M.E.: "Zoo animals and wildlife." In Theilen, G.H., and Madewell, B.R. (eds.): *Veterinary Cancer Medicine*, 2nd ed. Philadelphia, PA, Lea & Febiger, pp. 649–662.
- 1987 Fowler, M.E.: "Velogenic viscerotropic Newcastle disease." In Burr, E.W. (ed.): *Companion Bird Medicine*. Ames, IA, Iowa State University Press, pp. 111–113.
- 1987 Fowler, M.E.: "Ulceration and obstruction of the spiral colon in the llama." *Verhandlungsbericht des 29. Internationalen Symposiums über die Erkrankungen der Zootiere*, Cardiff, pp. 201–208.
- 1988 Shannon, L.M., Poulton, J.L., Emmons, R.E., Woodie, J.D., and Fowler, M.E.: "Serological Survey for Rabies antibodies in raptors from California." *Journal of Wildlife Diseases* 24(2):264–267.
- 1988 Penedo, M.C.T., Fowler, M.E., Bowling, A.T., Anderson, D.L., and Gordon, L.: "Genetic variation in the blood of llamas, *Llama glama*, and alpacas, *Llama pacos*." *Animal Genetics* 19:267–276.
- 1988 Gavier, D., Kittleson, M.D., Fowler, M.E., Johnson, L.E., Hall, G., and Nearenberg, D.: "Evaluation of a combination of xylazine, ketamine, and halothane for anesthesia in llamas." *American Journal of Veterinary Research* 49(12):2047–2055.
- 1988 Fowler, M.E., Paul-Murphy, J., and Bravo, W.: "Reproductive hormones in female llamas and alpacas." *Llamas* 2(5):35–37.



PUBLICATIONS *continued*

- 1989 Fowler, M.E., and Zinkl, J.G.: "Reference ranges for hematologic and serum biochemical values in llamas." *American Journal of Veterinary Research* 50:2049–2053.
- 1989 Fowler, M.E.: "Fertility in male llamas and alpacas." *Llamas* 3(4):37–39.
- 1989 Fowler, M.E.: "Early embryonic death in llamas and alpacas." *Llamas* 3(4):81–84.
- 1989 Fowler, M.E.: "Emergency veterinary medicine." In Auerback, P.S., and Geehr, E.C. (eds.): *Management of Wilderness and Environmental Emergencies*, 2nd ed. New York, NY, MacMillan Publishing, pp. 855–877.
- 1989 Fowler, M.E.: "Conformation and soundness (llamas)." *Veterinary Clinics of North America: Food Animal Practice* 5(1):21–26.
- 1989 Fowler, M.E.: "Physical examination, restraint and handling, (llamas)." *Veterinary Clinics of North America: Food Animal Practice* 5(1):27–35.
- 1989 Schulz, T.A., Stewart, J.S., and Fowler, M.E.: "*Knemidokoptes mutans* (Acari: Knemidocoptidae) in a Great-horned owl (*Bubo virginianus*)." *Journal of Wildlife Diseases* 25(3):430–432.
- 1989 Paul-Murphy, J., Gershwin, L.J., Thatcher, E.F., Fowler, M.E., and Habig, W.H.: "Immune response of the llama (*Lama glama*) to tetanus toxoid vaccination." *American Journal of Veterinary Research* 50(8):1279–1281.
- 1989 Fowler, M.E.: "Llama basics." In Kirk, R.W. (ed.): *Current Veterinary Therapy X, Small Animal*. Philadelphia, PA, W.B. Saunders, pp. 734–737.
- 1989 Fowler, M.E.: "Zoonoses of concern to volunteers and staff of wild animal rehabilitation centers." In Kirk, R.W. (ed.): *Current Veterinary Therapy X, Small Animal*. Philadelphia, PA, W.B. Saunders, pp. 697–703.
- 1989 Fowler, M.E.: *Medicine and Surgery of South American Camelids*. Ames, IA, Iowa State University Press.
- 1989 Halpern, G.M., Gershwin, L.J., Gonzales, G., and Fowler, M.E.: "Diagnosis of inhalant allergy in a chimpanzee using in vivo and in vitro tests." *Allergol et Immunopathol* 17(5):271–276.
- 1990 Fowler, M.E., Schulz, T.A., Ardans, A., Reynolds, B., and Behymer, D.: "Chlamydiosis in captive raptors." *Avian Diseases* 34:657–662.
- 1990 Bravo, P.W., Fowler, M.E., Stabenfeldt, G.H., and Lasley, B.L.: "Ovarian follicular dynamics in the llama." *Biology of Reproduction* 43:579–585.
- 1990 Bravo, P.W., Fowler, M.E., Stabenfeldt, G.H., and Lasley, B.L.: "Endocrine response in the llama to copulation." *Theriogenology* 33:891–899.



PUBLICATIONS *continued*

- 1990 Fowler, M.E., and Olander, H.J.: "Fetal membranes and ancillary structure of llamas." *American Journal of Veterinary Research* 51:1495–1500.
- 1990 Bravo, P.W., and Fowler, M.E.: "Basic physiology of reproduction in female llamas." *Llamas* 4(3):35–37.
- 1991 Fowler, M.E.: "Comparative clinical anatomy of ratites." *Journal of Zoo and Wildlife Medicine* 22(2):204–227.
- 1991 Bravo, P.W., Stabenfeldt, G.H., Lasley, B.L., and Fowler, M.E.: "Urinary steroids in preparturient and postpartum periods through early pregnancy in llamas." *Theriogenology* 36(2):267–278.
- 1991 Paul-Murphy, J., Tell, L.A., Bravo, W., Fowler, M.E., and Lasley, B.L.: "Urinary steroid evaluations to monitor ovarian function in exotic ungulates: VIII. Correspondence of urinary and plasma steroids in the llama (*Lama glama*) during nonconceptive and conceptive cycles." *Zoo Biology* 10:225–236.
- 1991 Bravo, P.W., Stabenfeldt, G.H., Lasley, B.L., and Fowler, M.E.: "The effect of ovarian follicle size on pituitary and ovarian responses to copulation in domesticated South American camelids." *Biology of Reproduction* 45:553–559.
- 1991 Paul-Murphy, J.R., Morgan, J.P., Snyder, J.R., and Fowler, M.E.: "Radiographic findings in young llamas with forelimb valgus deformities: 28 cases (1980–1988)." *Journal of the American Veterinary Medical Association* 198(12):2107–2111.
- 1992 Bravo, P.W., Stabenfeldt, G.H., Fowler, M.E., and Lasley, B.L.: "Pituitary response to repeated copulation and/or gonadotropin-releasing hormone administration in llamas and alpacas." *Biology of Reproduction* 47:884–888.
- 1992 Drew, M.L., Ramsay, E., Fowler, M.E., and Kass, P.H.: "Effect of flunixin meglumine and cimetidine hydrochloride on the pH in the third compartment of the stomach of llamas." *Journal of the American Veterinary Medical Association* 201(10):1559–1563.
- 1992 Fowler, M.E., Pappagianis, D., and Ingram, I.: "Coccidioidomycosis in llamas in the United States: 19 cases (1981–1989)." *Journal of the American Veterinary Medical Association* 201(10):1609–1614.
- 1992 Fowler, M.E.: "Feeding llamas and alpacas." *Current Veterinary Therapy—Small Animal* XI. Philadelphia, PA, W.B. Saunders, p. 1189–1192.
- 1993 Fowler, M.E.: "Poisonous plants in harvested feeds." *Current Veterinary Therapy—Food Animals*, 3rd ed. Philadelphia, PA, W.B. Saunders, p. 343.
- 1993 Fowler, M.E.: "Cardiotoxic plants." *Current Veterinary Therapy—Food Animals*, 3rd ed. Philadelphia, PA, W.B. Saunders, p. 352.



PUBLICATIONS *continued*

- 1993 Fowler, M.E.: "Hepatotoxic plants." *Current Veterinary Therapy—Food Animals*, 3rd ed. Philadelphia, PA, W.B. Saunders, p. 354.
- 1993 Fowler, M.E.: "Zootoxins." *Current Veterinary Therapy—Food Animals*, 3rd ed. Philadelphia, PA, W.B. Saunders, p. 141.
- 1993 Bravo, P.W., Stabenfeldt, G.H., Fowler, M.E., and Lasley B.L.: "Ovarian and endocrine patterns associated with reproductive abnormalities in llamas and alpacas." *Journal of the American Veterinary Medical Association* 202(2):268–272.
- 1993 Drew, M.L., and Fowler, M.E.: "Poisoning of black and white ruffed lemurs by hairy nightshade." *Journal of Zoo and Wildlife Medicine* 22(4):494–496.
- 1994 Bravo, P.W., Fowler, M.E., and Lasley, B.L.: "The postpartum llama: fertility after parturition." *Biology of Reproduction* 51(6):1084–7.
- 1994 "Plant poisoning in horses." In Siegal, M. (ed.): *UC Davis Book of Horses*. New York, NY, HarperCollins, pp. 403–410.
- 1995 Drew, M.L., and Fowler, M.E.: "Comparison of methods for measuring serum immunoglobulin concentrations on neonatal llamas." *Journal of the American Veterinary Medical Association* 206:1374–1380.
- 1995 Bravo, P.W., Lasley, B.L., and Fowler, M.E.: "Resumption of ovarian follicular activity and uterine involution in the postpartum llama." *Theriogenology* 44:6, 783–791.
- 1995 Fowler, M.E., and Johnson, L.W.: "Replacement for mother's milk in llamas and alpacas." *Llamas* 9(7):15–16.
- 1995 Hoffman, E., and Fowler, M.E.: *The Alpaca Book*. Jackson, CA, Clay Press.
- 1996 Dart, A.J., Kinde, H., Hodgson, D.R., Peaurioi, J.R., Selby, A.W., Maas, J., and Fowler, M.E.: "Serum alpha tocopherol, vitamin A and blood selenium concentrations, and glutathione peroxidase activity in llamas fed alfalfa hay." *American Journal of Veterinary Research* 57(5):689–692.
- 1996 Ramsay, E.C., Munson, L., Lowenstine, L., and Fowler, M.E.: "A Retrospective study of neoplasia in a collection of captive snakes." *Journal of Zoo and Wildlife Medicine* 27(1):28–34.
- 1997 Fowler, M.E.: "Concretions in camelids." *Journal of Camel Practice and Research* 3(2):107–113.
- 1997 Atlee, B.A., Stannard, A.A., Fowler, M.E., Willemse, T., Ihrke, P.J., and Olivry, T.: "The histology of the normal llama skin." *Veterinary Dermatology* 8:165–176.
- 1997 Fowler, M.E.: "Medical management of South American camelids." *Journal of Camel Practice and Research* 4(2):123–130.



PUBLICATIONS *continued*

- 1997 Fowler, M.E.: "Evolutionary history and differences between camelids and ruminants." *Journal of Camel Practice and Research* 4(2):99–105.
- 1997 Fowler, M.E.: "Unique parasitisms of South American camelids in North and South America." *Journal of Camel Practice and Research* 4(2):257–260.
- 1997 Bravo, P.W., Garnica, J., and Fowler, M.E.: "Immunoglobulin G concentrations in periparturient llamas, alpacas and their crias." *Small Ruminant Research* 26(1997) 145–149.
- 1998 Fowler, M.E.: *Medicine and Surgery of South American Camelids*, 2nd ed. Ames, IA, Iowa State University Press, pp. 549.
- 1999 Fowler, M.E.: "Llama and alpaca behavior – A clue to illness detection." *Journal of Camel Practice and Research* 6(2):135–152.
- 2000 Fowler, M.E.: "Restraint and handling of camels." *Journal of Camel Practice and Research* 7(1):77–90.
- 2000 Fowler, M.E.: "The influence of behaviour on the health and well-being of camels and their handlers." *Journal of Camel Practice and Research* 7(2):129–142.
- 2001 Bravo, P.W., and Fowler, M.E.: "Camelidae." In Fowler, M.E. (ed.): *Biology, Medicine and Surgery of South American Wild Animals*. Ames, IA, Iowa State University Press.
- 2001 Fowler, M.E.: "An overview of foot conditions in Asian and African Elephants." In Csuti, B., Sargent, E.L., and Bechert, U.S.: *The Elephant's Foot*. Ames, IA, Iowa State University Press.
- 2001 Fowler, M.E.: "Elephant foot care: concluding remarks." In Csuti, B., Sargent, E.L., and Bechert, U.S.: *The Elephant's Foot*. Ames, IA, Iowa State University Press.
- 2001 Fowler, M.E. "A glossary of elephant foot terms." In Csuti, B., Sargent, E.L., and Bechert, U.S.: *The Elephant's Foot*. Ames, IA, Iowa State University Press.
- 2001 Hoffman, E., and Fowler, M.E.: "Host and Helminth Parasite: An evolutionary perspective." In Chowdhury, N., and Aguirre, A.A. (eds.): *Helminths of Wildlife*. Enfield, NH, Science Publishers Inc., pp. 7–22.
- 2003 Fowler, M.E.: "Camelidae," In Fowler, M.E., and Miller, R.E. (eds.): *Zoo and Wild Animal Medicine*, 5th ed. St. Louis, MO, Elsevier, pp. 612–624.
- 2003 Fowler, M.E.: "Sheep, goats and goat-like animals." In Fowler, M.E., and Miller, R.E. (eds.): *Zoo and Wild Animal Medicine*, 5th ed. St. Louis, MO, Elsevier, pp. 675–685.
- 2006 Fowler, M.E.: "Physical restraint and handling." In Fowler, M.E., and Mikota, S.K. (eds.): *Biology, Medicine and Surgery of Elephants*. Ames, IA, Blackwell Publishing.



PUBLICATIONS *continued*

- 2006 Fowler, M.E., and Mikota, S.K.: “Chemical Restraint and Anesthesia.” In Fowler, M.E., and Mikota, S.K. (eds.): *Biology, Medicine and Surgery of Elephants*. Ames, IA, Blackwell Publishing, pp. 75–90.
- 2006 Fowler, M.E., and Mikota, S.K.: “Chemical Restraint and Anesthesia.” In Fowler, M.E., and Mikota, S.K. (eds.): *Biology, Medicine and Surgery of Elephants*. Ames, IA, Blackwell Publishing, pp. 91–109.
- 2006 Fowler, M.E.: “Surgery and surgical conditions.” In Fowler, M.E., and Mikota, S.K. (eds.): *Biology, Medicine and Surgery of Elephants*. Ames, IA, Blackwell Publishing, pp. 119–130.
- 2006 Fowler, M.E.: “Infectious diseases.” In Fowler, M.E., and Mikota, S.K. (eds.): *Biology, Medicine and Surgery of Elephants*. Ames, IA, Blackwell Publishing, pp. 131–158.
- 2006 Fowler, M.E.: “Parasitology.” In Fowler, M.E., and Mikota, S.K. (eds.): *Biology, Medicine and Surgery of Elephants*. Ames, IA, Blackwell Publishing.
- 2006 Fowler, M.E.: “Multisystem disorders.” In Fowler, M.E., and Mikota, S.K. (eds.): *Biology, Medicine and Surgery of Elephants*. Ames, IA, Blackwell Publishing, pp. 243–252.
- 2006 Fowler, M.E.: “Foot disorders.” In Fowler, M.E., and Mikota, S.K. (eds.): *Biology, Medicine and Surgery of Elephants*. Ames, IA, Blackwell Publishing, pp. 271–290.
- 2006 Fowler, M.E.: “Toxicology.” In Fowler, M.E., and Mikota, S.K. (eds.): *Biology, Medicine and Surgery of Elephants*. Ames, IA, Blackwell Publishing, pp. 415–430.
- 2006 Fowler, M.E., and Mikota, S.K. (eds.): *Biology, Medicine and Surgery of Elephants*. Ames, IA, Blackwell Publishing.
- 2006 Fowler, M.E.: “History of the American Association of Zoo Veterinarians.” In *Collected Proceedings of the AAZV and History of AAZV*, 3rd ed. CD-ROM (no hard copy published).
- 2006 Fowler, M.E.: “Historical Perspectives of Zoological Medicine.” In Walsh, D. (ed.): *Journal of Veterinary Medical Education* 33(3).
- 2007 Fowler, M.E.: “South American Camelids.” In Al-Ani, F.K.: *Camel Management and Diseases*, 2nd ed.
- 2007 Fowler, M.E.: “Camelidae.” In Cubas, Z., da Silva, J.C.R., and Catão-Dias, J.L. (eds.): *Medicina Veterinaria de Animais Selvagens (Diseases of South American Wild Animals)* (in Portuguese).
- 2007 Fowler, M.E., and Miller, R.E.: *Zoo and Wild Animal Medicine*, 6th ed. St. Louis, MO, Elsevier.



PUBLICATIONS *continued*

- 2007 Fowler, M.E.: "Uroliths and Gastro-enteroliths in Camelids." In Fowler, M.E., and Miller, R.E.: *Zoo and Wild Animal Medicine*, 6th ed. St. Louis, MO, Elsevier.
- 2007 Fowler, M.E.: "Camelids are not Ruminants." In Fowler, M.E., and Miller, R.E.: *Zoo and Wild Animal Medicine*, 6th ed. St. Louis, MO, Elsevier.
- 2007 Fowler, M.E.: "Congenital/Hereditary Conditions in Zoo Animals." In Fowler, M.E., and Miller, R.E.: *Zoo and Wild Animal Medicine*, 6th ed. St. Louis, MO, Elsevier.
- 2007 Fowler, M.E.: "Behavioral Clues for the Detection of Illness in Wild Animals." In Fowler, M.E. and Miller, R.E.: *Zoo and Wild Animal Medicine*, 6th ed. St. Louis, MO, Elsevier.
- 2007 Fowler, M.E.: "Camelidae (llamas, alpaca, guanaco, vicuna)." In Cubas, Z.S., Silva, J.C.R., and Catão-Dias, J.L.: *Tratado de Animais Selvagens (Treatise on Wild Animals)*. Sao Paulo, Brazil, Rocca, pp. 630–640.
- 2007 Fowler, M.E.: "Emergency Veterinary Medicine." In Auerbach, P.S. (ed.) *Wilderness Medicine*. 5th ed. St. Louis, MO, Mosby/Elsevier, pp. 1226–1250.
- 2008 Fowler, M.E.: "Camelid Geneticists Chart Course for Future Research." *Alpacas Magazine* 18(3):62–65.
- 2008 Fowler, M.E.: *Restraint and Handling of Wild and Domestic Animals*, 3rd ed. Ames, IA, Wiley-Blackwell.
- 2011 Fowler, M.E.: "Camelidae." In Cubas, Z., Silva, J.C.R., and Catão-Dias, J.L. (eds.): *Medicina Veterinaria de Animais Selvagens (Diseases of South American Wild Animals)* (in Portuguese).
- 2011 Fowler, M.E.: "Megavertebrate, Elephants." In Cubas, Z., Silva, J.C.R., and Catão-Dias, J.L. (eds.): *Medicina Veterinaria de Animais Selvagens (Diseases of South American Wild Animals)* (in Portuguese).
- 2011 Fowler, M.E.: "Physical restraint and handling." In Irwin, M.D., Stoner, J. (eds.): *Zoo Technology*. Chicago, IL, University of Chicago Press.
- 2011 Fowler, M.E.: "Stress/distress." In Irwin, M.D., Stoner, J. (eds.): *Zoo Technology*. Chicago, IL, University of Chicago Press.
- 2011 Fowler, M.E.: "Emergency Veterinary Medicine." In Auerbach, P.S. (ed.): *Wilderness Medicine*, 6th ed. St. Louis, MO, Mosby/Elsevier, pp. 1198–1223.

