

## DAFTAR PUSTAKA

- Abrahamson, D.R., 2009, "Development of kidney glomerular endothelial cells and their role in basement membrane assembly", *Organogenesis*, 5(1), hal. 1–13.
- Abu Hossain, F. A. Chaudhry, K. Zahedi, F. Siddiqui, and H. Amlal, 2011, 'Cellular and molecular basis of increased ammoniagenesis in potassium deprivation', *American Journal of Physiology. Renal Physiology*, 301(5), hal. F969-978.
- Alwani, M., R.M. Al-Zoubi, A. Al-Qudimat, A. Yassin, O. Aboumarzouk, K. Al-Rumaihi, R. Talib, A. Al-Ansari, 2021, "The impact of long-term Testosterone Therapy (TTh) in renal function (RF) among hypogonadal men: An observational cohort study", *Annals of Medicine and Surgery*, 69.
- Amelkina, O., A. M., da Silva, A. R. Silva, and P. Comizzoli, 2021, "Transcriptome dynamics in developing testes of domestic cats and impact of age on tissue resilience to cryopreservation", *BMC Genomics*, 22(1), hal 847.
- Asano, T., Atsushi T., Koichi O., Kikumi O., Junichi K., and Kinji S., 2008, "Membranoproliferative Glomerulonephritis in a Young Cat", *Journal of Veterinary Medical Science*, 70(12), hal. 1373–1375.
- Atherton, J.C., 1972, "Renal Physiology", *British Journal of Anaesthesia*, 44(3), hal. 236–245.
- August, J.R. and Leib, M.S., 1984, "Primary Renal Diseases of the Cat", *Veterinary Clinics of North America: Small Animal Practice*, 14(6), hal. 1247–1260.
- Bach, L.A., M. E. Cooper, D. Vranes, T. J. Allen, J. Rumble, G. Jerums, 1994, "Disparate effects of castration on renal structure and function in the streptozotocin diabetic rat", *Diabetes research*, 27(1), hal. 27–38.
- Bagnasco, S.M., 2005, "Role and regulation of urea transporters", *Pflügers Archiv - European Journal of Physiology*, 450(4), hal. 217–226.
- Baltatu, O., C. Cayla, R. Iliescu, D. Andreev, M. Bader, 2003, "Abolition of end-organ damage by antiandrogen treatment in female hypertensive transgenic rats", *Hypertension (Dallas, Tex.: 1979)*, 41(32), hal. 830–833.
- Bartges, J. and Polzin, D.J., 2011, *Nephrology and urology of small animals*. UK: Wiley-Blackwell.
- Bayle, F., L. Eloy, M. Trinh-Trang-Tan, J. Grtinfeld, and L. Bankir, 1982, "Papillary plasma flow in rats. I. Relation to urine osmolality in normal and

Brattleboro rats with hereditary diabetes insipidus”, *Pflugers Archiv: European Journal of Physiology*, 394(3), hal. 211–216.

- Baylis, C., 1994, “Age-dependent glomerular damage in the rat. Dissociation between glomerular injury and both glomerular hypertension and hypertrophy. Male gender as a primary risk factor.”, *Journal of Clinical Investigation*, 94(5), hal. 1823–1829.
- Bjornvad, C.R., D. H. Nielsen, P. J. Armstrong, F. McEvoy, K. M. Hoelmkjaer, K. S. Jensen, G. F. Pedersen, A. T. Kristensen, 2011, ”Evaluation of a nine-point body condition scoring system in physically inactive pet cats”, *American Journal of Veterinary Research*, 72(4), hal. 433–437.
- Boone, M. and Deen, P.M.T., 2008, “Physiology and pathophysiology of the vasopressin-regulated renal water reabsorption”, *Pflügers Archiv - European Journal of Physiology*, 456(6), hal. 1005–1024.
- Borges, N.C., Marco A. P., Vivian A. P., Marcelo A. F., and Maurício A. C., 2017, “Effects of Castration on Penile Extracellular Matrix Morphology in Domestic Cats”, *Journal of Feline Medicine and Surgery*, 19(12), hal. 1261–1266.
- Broulik, P., 1983, “The Effect of Castration and Androgen Treatment on Glomerular Volume in Mice”, *Experimental and Clinical Endocrinology & Diabetes*, 82(04), hal. 115–117.
- Burggraaf, N.D., Westgeest, D.B. and Corbee, R.J., 2021, “Analysis of 7866 feline and canine uroliths submitted between 2014 and 2020 in the Netherlands”, *Research in Veterinary Science*, 137, hal. 86–93.
- Cannon, M., 2016, “Diagnosis and investigation of chronic kidney disease in cats”, *In Practice*, 38(S3), hal. 2–9.
- Chadha, V., Garg, U. and Alon, U.S., 2001, “Measurement of urinary concentration: a critical appraisal of methodologies”, *Pediatric Nephrology*, 16(4), hal. 374–382.
- Chew, D.J., DiBartola, S.P. and Schenck, P.A., 2011, *Urinalysis dalam Canine and Feline Nephrology and Urology* diedit oleh Dennis et. al. Netherland: Elsevier, 1–31.
- Chen, Y.F., Naftilan, A.J. and Oparil, S., 1992, “Androgen-dependent angiotensinogen and renin messenger RNA expression in hypertensive rats”, *Hypertension (Dallas, Tex.: 1979)*, 19(5), hal. 456–463.
- Chew, D.J., DiBartola, S.P. and Schenck, P.A., 2011, *Urinalysis dalam Canine and Feline Nephrology and Urology*. Elsevier, 1–31.

- Chou, Y., C. Li, H. Hsu, W. Chang, C. Liu, W. Li, H. Ke, M. Lee, M. Liu, S. Pan, H. Wang, 2011, "Renal function in patients with urinary stones of varying compositions", *The Kaohsiung Journal of Medical Sciences*, 27(7), hal. 264–267.
- Coldrick, O., C. L. Brannon, D. M. Kydd, G. Pierce-Roberts, A. M. Borman, and A. G. Torrance, 2007, "Fungal pyelonephritis due to *Cladophialophora bantiana* in a cat", *The Veterinary Record*, 161(21), hal. 724–727.
- Combalbert, S. and Hernandez-Raquet, G., 2010, "Occurrence, fate, and biodegradation of estrogens in sewage and manure", *Applied Microbiology and Biotechnology*, 86(6), hal 1671–1692.
- Costa, D.S., Paula, T.A.R. and Matta, S.L.P., 2006, "Cat, cougar, and jaguar spermatogenesis: a comparative analysis", *Brazilian Archives of Biology and Technology*, 49(5), hal. 725–731.
- Cottam, Y.H., P. Caley, S. Wamberg, and W. H. Hendriks, 2002, "Feline Reference Values for Urine Composition", *The Journal of Nutrition*, 132(6), hal. 1754S-1756S.
- Coviello, A.D., B. Kaplan, K. M. Lakshman, T. Chen, A. B. Singh, and S. Bhasin, 2008, "Effects of graded doses of testosterone on erythropoiesis in healthy young and older men", *The Journal of Clinical Endocrinology and Metabolism*, 93(3), hal. 914–919.
- Darawiroj, D. and Choisunirachon, N., 2019, "Morphological assessment of cat kidneys using computed tomography", *Anatomia, Histologia, Embryologia*, 48(4), hal. 358–365.
- Debruyne, K., Hendrik H., A. Combes, D. Paepe, K. Peremans, K. Vanderperren, J. H. Saunders, 2012, "Ultrasonography of the feline kidney: Technique, anatomy and changes associated with disease", *Journal of Feline Medicine and Surgery*, 14(11), hal 794–803.
- Deguchi, E. and Akuzawa, M., 1997, "Renal Clearance of Endogenous Creatinine, Urea, Sodium, and Potassium in Normal Cats and Cats with Chronic Renal Failure.", *Journal of Veterinary Medical Science*, 59(7), hal. 509–512.
- Dixon, A. and Maric, C., 2007, "17 $\beta$ -Estradiol attenuates diabetic kidney disease by regulating extracellular matrix and transforming growth factor- $\beta$  protein expression and signaling", *American Journal of Physiology. Renal Physiology*, 293(5), hal. F1678-1690.
- Doublier, S., E. Lupia, P. Catanuto, S. Piera-Simon, X. Xia, K. Korach, M. Berho, S. J. Elliot and M. Karl, 2011, "Testosterone and 17 $\beta$ -estradiol have opposite effects on podocyte apoptosis that precedes glomerulosclerosis in

- female estrogen receptor knockout mice”, *Kidney International*, 79(4), hal. 404–413.
- Drickamer, L.C., 1995, “(Mus domesticus): Differences By Age, Sex, Social”, *Journal of Chemical Ecology*, 21(10), hal 1481-1493.
- Dru Forrester, S. and Roudebush, P., 2007, “Evidence-Based Management of Feline Lower Urinary Tract Disease”, *Veterinary Clinics of North America: Small Animal Practice*, 37(3), hal. 533–558.
- Eldredge, D., Adelman, B. and Carlson, D.G., 2008, *Cat owner’s home veterinary handbook*. 3rd ed. Hoboken, N.J: Wiley Pub.
- Eloy, L., J. Grfinfeld, F. Bayle, L. Bank, B. Ramos-Frendo, and M. Trinh-Trang-Tan., 1983, ‘Papillary plasma flow in rats. II. Hormonal control’, *Pflugers Archiv: European Journal of Physiology*, 398(3), hal. 253–258.
- England, G.C.W., 2010, *Physiology and endocrinology of the male, BSAVA Manual of Canine and Feline Reproduction and Neonatology*. BSAVA Library, 13–22.
- Ferreira, G.A., J. C. Machadoc, E. Nakano-Oliveiraa, A. Andriolob, G. Genaroa, 2020, “The effect of castration on home range size and activity patterns of domestic cats living in a natural area in a protected area on a Brazilian island”, *Applied Animal Behaviour Science*, 230.
- Fettman, M.J., C. A. Stanton, L. L. Banks, D. W. Hamar, D. E. Johnson, R. L. Hegstad, S. Johnston, 1997, “Effects of neutering on bodyweight, metabolic rate and glucose tolerance of domestic cats”, *Research in Veterinary Science*, 62(2), hal. 131–136.
- Finch, N., 2014, “Measurement of glomerular filtration rate in cats: Methods and advantages over routine markers of renal function”, *Journal of Feline Medicine and Surgery*, 16(9), hal. 736–748.
- Finco, D.R. and Barsanti, J.A., 1982, “Mechanism of urinary excretion of creatinine by the cat”, *American journal of veterinary research*, 43(12), hal. 2207–2209.
- Firdausi, N.F., 2015, “Keanekaragaman morfogenetik kucing domestik (felis domesticus) di wilayah lingkup kampus IAIN ambon’, *BIOSEL (Biology Science and Education): Jurnal Penelitian Science dan Pendidikan*, 4(2), hal. 58–68.
- Fischer, M., Baessler, A. and Schunkert, H., 2002, “Renin angiotensin system and gender differences in the cardiovascular system”, *Cardiovascular Research*, 53(3), hal. 672–677.

- Fossum, T.W., 2019, *Small Animal Surgery, 5th edition*. Philadelphia: Elsevier, Inc.
- França, L.R. and Godinho, C.L., 2003, "Testis Morphometry, Seminiferous Epithelium Cycle Length, and Daily Sperm Production in Domestic Cats (*Felis catus*)", *Biology of Reproduction*, 68(5), hal. 1554–1561.
- Fried, P.H., 1943, "The influence of the hormonal steroids on urinary tract disturbances associated with gynecologic disorders", *American Journal of Obstetrics and Gynecology*, 46(3), hal. 459–465.
- Gafter, U., Ben-Bassat, M. and Levi, J., 1990, "Castration inhibits glomerular hypertrophy and proteinuria in uninephrectomized male rats", *European Journal of Clinical Investigation*, 20(4), hal 360–365.
- Gips, C.H., Reitsema, A. and Wibbens-Alberts, M., 1970, "Preservation of urine for ammonia determination with a direct method", *Clinica Chimica Acta; International Journal of Clinical Chemistry*, 29(3), hal. 501–505.
- Greenbaum, J. and Nirmalan, M., 2005, "Acid–base balance: The traditional approach", *Current Anaesthesia & Critical Care*, 16(3), hal. 137–142.
- Gunn-Moore, D.A., 2003, "Feline Lower Urinary Tract Disease", *Journal of Feline Medicine and Surgery*, 5(2), hal. 133–138.
- Gurung, P., Yetiskul, E. and Jialal, I., 2022, *Physiology, Male Reproductive System*, StatPearls [Internet]. StatPearls Publishing. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK538429/> (Accessed: 5 September 2022).
- Hailemariam, F. and Falkner, B., 2022, *Renal Physiology for Primary Care Clinicians dalam Approaches to Chronic Kidney Disease: A Guide for Primary Care Providers and Non-Nephrologists*. diedit oleh J. McCauley, S.M. Hamrahian, and O.H. Maarouf, Cham: Springer International Publishing, 1–9.
- Halperin, M.L., Kamel, K.S. and Oh, M.S., 2008, "Mechanisms to concentrate the urine: an opinion", *Current Opinion in Nephrology and Hypertension*, 17(4), hal. 416–422.
- Hamm, L.L., Nakhoul, N. and Hering-Smith, K.S., 2015, "Acid-Base Homeostasis", *Clinical Journal of the American Society of Nephrology*, 10(12), hal. 2232–2242.
- Han, K.-H., 2011, "Mechanisms of the Effects of Acidosis and Hypokalemia on Renal Ammonia Metabolism", *Electrolytes & Blood Pressure: E & BP*, 9(2), hal. 45–49.

- Harris, A.N., Hyun-Wook Lee, X Jill W. V., X I. D. Weiner., 2020, “Testosterone modulates renal ammonia metabolism”, *American Journal of Physiology-Renal Physiology*, 318(4), hal F922–F935.
- Harris, A.N. and Weiner, I.D., 2021, “Sex differences in renal ammonia metabolism”, *American Journal of Physiology-Renal Physiology*, 320(1), hal. F55–F60.
- Hendriks, W.H., Tarttelin, M.F. and Moughan, P.J., 1995, “Twenty-Four Hour Feline Excretion Patterns In Entire And Castrated Cats”, *Physiology & Behavior*, 58(3).
- Hilliard, L.M., A. K. Sampson, R. D. Brown, K. M. Denton, 2013, “The “his and hers” of the renin-angiotensin system”, *Current Hypertension Reports*, 15(1), hal. 71–79.
- Hopkins, E., Sanvictores, T. and Sharma, S., 2021, *Physiology, Acid Base Balance*, StatPearls [Internet]. StatPearls Publishing. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK507807/> (Accessed: 30 August 2022).
- Howe, L.M., Margaret R.S, Harry W. B., H. P. Hobson., T. W. Fossum, A. C. Spann, and W. S. Wilkie., 2000, “Long-term outcome of gonadectomy performed at an early age or traditional age in cats”, *Journal of the American Veterinary Medical Association*, 217(11), hal. 1661–1665.
- Howe, L. M., 2015, “Current Perspectives On The Optimal Age To Spay/Castrate Dogs And Cats”, *Veterinary Medicine : Research and Reports*, 6(19), hal. 171–180.
- Hsu, Y. J., H. Dimke, J. P. H. Schoeber, S. Hsu, S. Lin, P. Chu, J. G. J. Hoenderop, R. J M Bindels., 2010, “Testosterone increases urinary calcium excretion and inhibits expression of renal calcium transport proteins”, *Kidney International*, 77(7), hal. 601–608.
- Jeffreys, A.B. and Waters, D.J., 2010, *Endocrine System dalam Atlas of Feline Anatomy*. 2nd edn. Teton NewMedia.
- Johnson, A.K., 2022, “Normal feline reproduction: The tom”, *Journal of Feline Medicine and Surgery*, 24(3), hal. 212–220.
- Johnson, L., Thompson, D.L. and Varner, D.D., 2008, “Role of Sertoli cell number and function on regulation of spermatogenesis”, *Animal Reproduction Science*, 105(1), hal. 23–51.
- Johnstone, I.P., Bancroft, B.J. and McFarlane, J.R., 1984, “Testosterone and androstenedione profiles in the blood of domestic tom-cats”, *Animal Reproduction Science*, 7(4), hal 363–375.



- Kanchuk, M. L., R. C. Backus, C. C. Calvert, J. G. Morris and Q. R. Rogers, 2003, "Weight gain in gonadectomized normal and lipoprotein lipase-deficient male domestic cats results from increased food intake and not decreased energy expenditure", *The Journal of Nutrition*, 133(6), hal. 1866–1874.
- Karet, F.E., 2009, "Mechanisms in hyperkalemic renal tubular acidosis", *Journal of the American Society of Nephrology: JASN*, 20(2), hal. 251–254.
- Katz, F.H. and Roper, E.F., 1977, "Testosterone Effect on Renin System in Rats", *Proceedings of the Society for Experimental Biology and Medicine*, 155(3), hal. 330–333.
- Kienitz, T. and Quinkler, M., 2008, "Testosterone and blood pressure regulation", *Kidney & Blood Pressure Research*, 31(2), hal. 71–79.
- Kneller, S.K. and Muhlbauer, M.C., 2013, *Radiography of the Dog and Cat: Guide to Making and Interpreting Radiographs*, New York: John Wiley & Sons.
- Knol, B.W. and Egberink-Alink, S.T., 1989, "Treatment of problem behaviour in dogs and cats by castration and progestagen administration: A review", *Veterinary Quarterly*, 11(2), hal. 102–107.
- Koeppen, B.M. and Stanton, B.A., 2013a, 1 - Physiology of Body Fluids dalam *Renal Physiology (Fifth Edition)* diedit oleh B.M. Koeppen and B.A. Stanton. Philadelphia: Mosby, 1–14.
- Koeppen, B.M. and Stanton, B.A., 2013b, 2 - Structure and Function of the Kidneys dalam *Renal Physiology (Fifth Edition)* diedit oleh B.M. Koeppen and B.A. Stanton, Philadelphia: Mosby, 15–26.
- Koeppen, B.M. and Stanton, B.A., 2013c, 3 - Glomerular Filtration and Renal Blood Flow dalam *Renal Physiology (Fifth Edition)* diedit oleh B.M. Koeppen and B.A. Stanton, Philadelphia: Mosby, 27–43.
- Koeppen, B.M. and Stanton, B.A., 2013d, 4 - Renal Transport Mechanisms: NaCl and Water Reabsorption Along the Nephron dalam *Renal Physiology (Fifth Edition)* diedit oleh B.M. Koeppen and B.A. Stanton, Philadelphia: Mosby, 45–71.
- Komukai, K., Mochizuki, S. and Yoshimura, M., 2010, "Gender and the renin-angiotensin-aldosterone system: Gender and RAAS", *Fundamental & Clinical Pharmacology*, 24(6), hal. 687–698.
- Korenchevsky, V. and Dennison, M., 1934, "The manifold effects of castration in male rats", *The Journal of Pathology and Bacteriology*, 38(2), hal. 231–246.
- Korenchevsky, V., Dennison, M. and Kohn-Speyer, A., 1933, "Changes produced by testicular hormone in normal and in castrated rats", *Biochemical Journal*, 27(2), hal. 557–579.

- Laflamme, D., 1997, "Development and validation of a body condition score system for cats: a clinical tool", *Feline practice* (Santa Barbara, Calif. : 1990) (USA) [Preprint]. Available at: [https://scholar.google.com/scholar\\_lookup?title=Development+and+validation+of+a+body+condition+score+system+for+cats%3A+a+clinical+tool&author=Laflamme%2C+D.+%28Ralston+Purina+Company%2C+St.+Louis%2C+MO.%29&publication\\_year=1997](https://scholar.google.com/scholar_lookup?title=Development+and+validation+of+a+body+condition+score+system+for+cats%3A+a+clinical+tool&author=Laflamme%2C+D.+%28Ralston+Purina+Company%2C+St.+Louis%2C+MO.%29&publication_year=1997) (Accessed: 15 August 2022).
- Langley-Hobbs, S.J., Demetriou, J. and Ladlow, J.F., 2014, *Feline soft tissue and general surgery*, New York: Saunders/Elsevier.
- Lefebvre, H.P., 2014, *Renal Function Testing dalam Nephrology and Urology of Small Animals* diedit oleh J. Bartges and D.J. Polzin, UK: John Wiley & Sons, Ltd., hal. 91–96.
- Lekcharoensuk, C., Osborne, C.A. and Lulich, J.P, 2001, "Epidemiologic study of risk factors for lower urinary tract diseases in cats", *Journal of the American Veterinary Medical Association*, 218(9), hal. 1429–1435.
- Lobban, M.C. 1952. "Structural variations in the adrenal cortex of the adult cat", *The Journal of Physiology*, 118(4), hal. 565–574.
- Lund, H.S., Bente K. S., Ø. W. Finstad, Elin T. G., Terese V., and Anna V. E., 2016, "Risk factors for idiopathic cystitis in Norwegian cats: a matched case-control study", *Journal of Feline Medicine and Surgery*, 18(6), hal. 483–491.
- Magari, T., Y. Shibata, S. Arai, B. Kashiwagi, K. Suzuki, K. Suzuki, 2014, "Time-dependent effects of castration on the bladder function and histological changes in the bladder and blood vessels", *Asian Journal of Andrology*, 16(3), hal. 457–460.
- Mankhey, R.W., C. C. Wells, F. Bhatti, and C. Maric, 2007, "17beta-Estradiol supplementation reduces tubulointerstitial fibrosis by increasing MMP activity in the diabetic kidney", *American Journal of Physiology. Regulatory, Integrative and Comparative Physiology*, 292(2), hal. R769–777.
- Mao, W., Z. Hui, X. Zhipeng, G. Jiang, Z. Ziwei, W. Jianping, X. Bin, C. Ming., 2021, "Relationship between urine specific gravity and the prevalence rate of kidney stone", *Translational Andrology and Urology*, 10(1), hal. 184–194.
- Marais, J., 1987, "Cortical Microvasculature of the Feline Kidney", *Cells Tissues Organs*, 130(2), hal. 127–131.
- Martin, L.J., B. Siliart., H. J. W. Dumon, P. Nguyen, 2006, "Spontaneous hormonal variations in male cats following gonadectomy", *Journal of Feline Medicine and Surgery*, 8(5), hal. 309–314.



- Martinez, M., M. Soler, F. G. Laredo, E. Belda, and A. Agut, 2022, "Ultrasonographic assessment of the renal size using a kidney length to vertebral body length ratio in cats", *Frontiers in Veterinary Science*, 9,
- Messow, K. Giirtner, R. H., M Kangaloo and L. Liinebrink, 1980, "Sex Differences in Kidney Morphology and Glomerular Filtration Rate in Mice", *Contr. Nephrol.*, 19, hal 51–55.
- Miles, B.E., Paton, A. and de Wardener, H.E., 1954, "Maximum Urine Concentration", *British Medical Journal*, 2(4893), hal. 901–905.
- Miyazaki, M., Tetsuro Y., Hideharu T., and Akemi S., 2008, The Biological Function of Cauxin, a Major Urinary Protein of the Domestic Cat (*Felis catus*) dalam *Chemical Signals in Vertebrates* diedit oleh J.L. Hurst et al. New York, NY: Springer, 51–60.
- Mizukami, K., Raj, K. and Giger, U., 2015, "Feline Cystinuria Caused by a Missense Mutation in the SLC3A1 Gene", *Journal of Veterinary Internal Medicine*, 29(1), hal. 120–125.
- Nash, A.S., Wright N. G., Spencer A. J., Thompson H., Fisher E. W., 1979, "Membranous nephropathy in the cat: a clinical and pathological study", *The Veterinary Record*, 105(4), hal 71–77.
- Nevins, J.R., Mai, W. and Thomas, E., 2015, "Associations Between Ultrasound And Clinical Findings In 87 Cats With Urethral Obstruction: Ultrasound In Feline Urethral Obstruction", *Veterinary Radiology & Ultrasound*, 56(4), hal. 439–447.
- Nickel, R., August S., Eugen S., Wolfgang O. S., 1979, Urogenital System dalam *The Viscera of the Domestic Mammals*. Diedit oleh R. Nickel et al., New York: Springer, 282–392.
- Olmos-Ortiz, A., J. García-Quiroza, R. López-Marureb, I. González-Curielc, B. Rivas-Santiagod, A. Olivarese, E. Avilaa, D. Barreraa, A. Halhalia, F. Caldiñof, F. Larreaa, L. Díaza, 2016, "Evidence of sexual dimorphism in placental vitamin D metabolism: Testosterone inhibits calcitriol-dependent cathelicidin expression", *The Journal of Steroid Biochemistry and Molecular Biology*, 163, hal. 173–182.
- Perry, K.L., Fordham, A. and Arthurs, G.I., 2014, "Effect of neutering and breed on femoral and tibial physeal closure times in male and female domestic cats", *Journal of Feline Medicine and Surgery*, 16(2), hal. 149–156.
- Peters, G., 1963, "Compensatory adaptation of renal functions in the unanesthetized rat", *The American Journal of Physiology*, 205(5), hal 1042–1048.

- Peyman Mirmohammadi, A.A.R., 2019, “Measuring Kidney To Abdominal Aorta Ratio Using Ultrasonography To Determine Kidney Size In Healthy Domestic Shorthair Cats”, *International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies*, 10(8), hal. 1053-1060.
- Piyarungsri, K., Sahatchai T., Niyada T., Phatthamaporn L., Atiratt K., 2020, “Prevalence and Risk Factors of Feline Lower Urinary Tract Disease in Chiang Mai, Thailand”, *Scientific Reports*, 10(196), hal 1-8.
- Porters, N., I. Polis, C. P. H. Moons, I. Van de Maele, R. Ducatelle, K. Goethals, L. Duchateau, H. de Rooster, 2015, “Relationship between age at gonadectomy and health problems in kittens adopted from shelters”, *Veterinary Record*, 176(22), hal. 572–572.
- Raphael, K.L., T. Greene, G. Wei, T. Bullshoe, K. Tuttle, A. K. Cheung, and S. Beddhu, 2020, “Sodium Bicarbonate Supplementation and Urinary TGF- $\beta$ 1 in Nonacidotic Diabetic Kidney Disease”, *Clinical Journal of the American Society of Nephrology : CJASN*, 15(2), hal. 200–208.
- Ratkalkar, V.N. and Kleinman, J.G., 2011, “Mechanisms of Stone Formation’, *Clinical Reviews in Bone and Mineral Metabolism*”, 9(3–4), hal. 187–197.
- Reckelhoff, J.F., 2001, “Gender differences in the regulation of blood pressure”, *Hypertension (Dallas, Tex.: 1979)*, 37(5), hal. 1199–1208.
- Reichler, I., 2009, “Gonadectomy in Cats and Dogs: A Review of Risks and Benefits”, *Reproduction in Domestic Animals*, 44(2), hal 29–35.
- Reines, B.P. and Wagner, R.A., 2018, “Resurrecting FUS: Adrenal Androgens as an Ultimate Cause of Hematuria, Periuria, Pollakuria, Stranguria, Urolithiasis and Obstruction in Neutered Cats”, *Frontiers in Veterinary Science*, 5(207). hal. 1-7.
- Reppas, G. and Foster, S.F., 2016a, “Practical urinalysis in the cat: 1: Urine macroscopic examination “tips and traps””, *Journal of Feline Medicine and Surgery*, 18(3), hal. 190–202.
- Reppas, G. and Foster, S.F., 2016b, “Practical urinalysis in the cat: 2: Urine microscopic examination “tips and traps””, *Journal of Feline Medicine and Surgery*, 18(5), hal. 373–385.
- Rizzi, T.E., 2014, ‘Urinalysis in Companion Animals Part 1: Collection, Sample Handling, & Initial Evaluation”, *Today’s Veterinary Practice*.
- Root, M.V., Shirley D. J., Garyr. J., Patricia N. O., 1996, “The Effect Of Prepuberal And Postpuberal Gonadectomy On Penile Extrusion And Urethral Diameter In The Domestic Cat”, *Veterinary Radiology Ultrasound*, 37(5), hal. 363–366.

- Sævik, B.K. Cathrine T., Nina O., Henning S., Anna V. E., 2011, “Causes of Lower Urinary Tract Disease In Norwegian Cats”, *Journal Of Feline Medicine and Surgery*, 13(6), hal. 410–417.
- Schoener, B. and Borger, J., 2022, Erythropoietin Stimulating Agents, StatPearls [Internet]. StatPearls Publishing. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK536997/> (Accessed: 14 September 2022).
- Seale, S. A. Wood, H. C. Atkinson, E. Bate, S. L. Lightman, C. D. Ingram, D. S. Jessop and M. S. Harbuz, 2004, “Gonadectomy Reverses The Sexually Diergic Patterns Of Circadian and Stress-Induced Hypothalamic-Pituitary-Adrenal Axis Activity In Male and Female Rats”, *Journal of Neuroendocrinology*, 16(6), hal. 516–524.
- Sharma, R. and Agarwal, A., 2011, Spermatogenesis: An Overview dalam *Sperm Chromatin* diedit oleh A. Zini and A. Agarwal, NY: Springer, hal. 19–44.
- Shiroma, J.T., Janice K. G., Randolph L. C., Sherry L. S., Preston W. S., 1999, “Effect of Reproductive Status on Feline Renal Size”, *Veterinary Radiology Ultrasound*, 40(3), hal. 242–245.
- Spain, C.V., Scarlett, J.M. and Houpt, K.A., 2004, “Long-term risks and benefits of early-age gonadectomy in cats”, *Journal of the American Veterinary Medical Association*, 224(3), hal. 372–379.
- Stocco, A.V., Santos S., M.S. Gomes, P. S. Júnior., M. A. Figueiredo, 2016, “Is there a difference between the right and left kidney? A macroscopic approach in Brazilian Shorthair Cat”, *Arquivo Brasileiro de Medicina Veterinária e Zootecnia*, 68(5), hal 1137–1144.
- Suwed, M.A. and Napitupulu, R.M., 2011, *Panduan Lengkap Kucing*, Jakarta: Penebar Swadaya Grup.
- Tanvetthayanont, P., S. Ponglowhapan, C. Thanaboonnipat, and N. Choisunirachon, 2020, “Impact of gonadal status on ultrasonographic renal parenchymal dimensions in healthy cats”, *Journal of Feline Medicine and Surgery*, 22(12), hal. 1148–1154.
- Terio, K.A., T. O’Brien, N.Lamberski, T.R. Famula, and L. Munson, 2008, “Amyloidosis in Black-footed Cats (*Felis nigripes*)”, *Veterinary Pathology*, 45(3), hal 393–400.
- Tiwana, M.S. and Leslie, S.W., 2021, Anatomy, Abdomen and Pelvis, Testicle, StatPearls [Internet]. StatPearls Publishing. Available at: <https://www.ncbi.nlm.nih.gov/books/NBK470201/> (Accessed: 5 September 2022).

- Vander, A.J., Sherman, J.H. and Luciano, D.S., 2001, *Human Physiology: The Mechanisms of Body Function*. US: McGraw-Hill.
- Vendramini, T.H.A., Andressa R. A, Vivian P., Rafael V. A., Zafalon, Roberta B. A. R., and Marcio A. B., 2020, “Neutering in dogs and cats: current scientific evidence and importance of adequate nutritional management”, *Nutrition Research Reviews*, 33(1), hal. 134–144.
- Vermeulen, A. J M Kaufman, S Goemaere, and I van Pottelberget, 2002, “Estradiol in elderly men”, *The Aging Male: The Official Journal of the International Society for the Study of the Aging Male*, 5(2), hal. 98–102.
- Wagner, C.A. and Mohebbi, N., 2010, “Urinary pH and stone formation”, *Journal of Nephrology*, 23 Suppl 16, hal. S165-169.
- Wei, A., Fascetti, A.J., Kim, K., Lee, A., 2014a, “Early Effects of Neutering on Energy Expenditure in Adult Male Cats”, *PLOS ONE*, 9(2), hal. 89557.
- Wei, A., Fascetti, A.J., Kim, K. and Ramsey, J.J., 2014b, “Post-castration variations in weight gain in a cohort of young adult male cats”, *Journal of Nutritional Science*, 3, hal 37.
- Weiner, I.D. and Verlander, J.W., 2013, “Renal Ammonia Metabolism and Transport”, *Comprehensive Physiology*, 3(1), hal. 201–220.
- Weiner, I.D. and Verlander, J.W., 2017, “Ammonia Transporters and Their Role in Acid-Base Balance”, *Physiological Reviews*, 97(2), hal. 465–494.
- White, M.C., Fleeman, R. and Arnold, A.C, 2019, “Sex differences in the metabolic effects of the renin-angiotensin system”, *Biology of Sex Differences*, 10.
- Willeberg, P., 1984, “Epidemiology of Naturally Occurring Feline Urologic Syndrome”, *Veterinary Clinics of North America: Small Animal Practice*, 14(3), hal. 455–469.
- Winter, M.D., Miles, K.G. and Riedesel, D.H., 2011, “Effect of sedation protocol on glomerular filtration rate in cats as determined by use of quantitative renal scintigraphy”, *American Journal of Veterinary Research*, 72(9), hal. 1222–1225.
- Wong, M.K.-S., 2021, Subchapter 42A - Renin dalam *Handbook of Hormones* (Second Edition). Diedit oleh H. Ando, K. Ukena, and S. Nagata, San Diego: Academic Press, 493–495.
- Worwag, S. and Langston, C.E., 2008, “Acute intrinsic renal failure in cats: 32 cases (1997-2004)”, *Journal of the American Veterinary Medical Association*, 232(5), hal. 728–732.

Zielonka, T.M., C. P. Berbis, P. Lucianit, D. Casanovat and D. Vervloet, 1995, “Effects of castration and testosterone on Fel d I production by sebaceous glands of male cats: I—immunological assessment”, *Revue Française d’Allergologie et d’Immunologie Clinique*, 35(4), hal. 359–363.