DAFTAR PUSTAKA

Abbas, AK, Aster, JC, & Kumar, V 2015. *Buku Ajar Patologi Robbins. Edisi 9.* Singapura: Elsevier Saunders.

Adriani, M & Wirjatmadi, B 2014, *Gizi dan Kesehatan Balita : Peranan Mikro Zinc pada Pertumbuhan Balita*, Jakarta, Prenamedia Group.

Afiati, F 2015, Abnormalitas Spermatozoa dengan Frekuensi Penampungan Berbeda, Disertasi Institut Pertanian Bogor, Jawa Barat.

Agarwal, A, Virk, G, Ong, C, Plessis, S 2014 'Male Reproductive System Anatomy and Physiology', *Journal Of World Mens Health*, vol.32, no.1, April 2014, diakses tanggal 18 April 2019. https://www.ncbi.nlm.nih.gov/pubmed/24872947

Aithken R J, 2019, 'Role of Oxidative Stress in the Etiology of Male Infertility and the Potential Therapeutic Value of Antioxidants', *Elsevier* vol.2, diakses pada tanggal 22 Januari 2019. http://dx.doi.org/10.1016/B978-0-12-812501-4.00010-9

Auger, J, Jouannet, P, Eustache, F 2016, 'Another look at human sperm morphology', *Journal of Human Reproduction*, vol.31, no.1, diakses pada tanggal 18 April 2018. https://www.ncbi.nlm.nih.gov/pubmed/26472152

Ardhie A M, 2011, 'Radikal Bebas dan Peran Antioksidan dalam Mencegah Penuaan' *Medicinus Scientific Journal of Pharmaceutical Development and Medical Application*, Jakarta

Badan Penelitian dan Pengembangan Peternakan 2017, *Penggunaan dan Penanganan Hewan Coba Rodensia dalam Penelitian Sesuai dengan Kesejahteraan Hewan*, Badan Litbang Peternakan, Jakarta.

Batubara, IVD, Wantouw, B, Tandean, L 2013, 'Pengaruh Paparan Asap Rokok terhadap Kualitas Spermatozoa Mencit Jantan (*Mus musculus*), Fakultas Kedokteran Universitas Sam Ratulangi Manado, dikses pada tanggal 27 Januari 2019. https://ejournal.unsrat.ac.id/index.php/ebiomedik/article/view/4367/3896

Borght, MV & Wyns, C 2018, 'Fertility and Infertility : Definition and epidemiology' (The Canadian Society of Clinical Chemist) *Elsevier*, diakses tanggal 23 Oktober 2018.

https://doi.org/10.1016/j.clinbiochem.2018.03.012

Bylund, DB 2017, 'Zinc & Human Pharmacokinetic Properties Target-Pharmacodynamics', *Elsevier*, diakses pada tanggal 2 November 2018.

Campbell, NA & Reece, JB 2010, *Biologi Edisi ke 8*, Erlangga, Jakarta.

Colagar, AH, Marzony, ET, Chaichi, MJ 2009, 'Zinc levels in seminal plasma are associated with sperm quality in fertile and infertile men', *Nutrition Research*, vol.29, no.2, diakses pada tanggal 14 November 2018. http://dx.doi.org/10.1016/j.nutres.2008.11.007

Costa, GMJ, Lacerda SMSN, Figueirdo AFA, Leal MC, Rezende-Neto JV, Franca LR 2018, 'Higher environmental temperatures promote acceleration of spermatogenesis in vivo in mice (Mus musculus)', *Journal of Thermal Biology*, vol.77, diakses tanggal 23 Oktober 2018. https://doi.org/10.1016/j.jtherbio.2018.07.010

Coverdale, JPC, Khaizaipoul, S, Swati, A, Stewart, AJ, Blindauer, CA 2018, 'Crosstalk between zinc and Free Fatty Acid in Plasma', *BBA-Molecular and Cell Biology of Lipids*, diakses pada tanggal 1 November 2018. *https://doi.org/10.1016/j.bbalip.2018.09.007*

Dahlan, SM 2013, *Besar Sampel dan Cara Pengambilan Sampel*, Salemba Medika, Jakarta.

Dewi, ERS 2018, 'Kualitas Spermatozoa Mencit (*Mus musculus* L.) Setelah Pemberian Ekstrak Biji Pepaya (*Carica papaya* L.), Universitas Lampung. http://digilib.unila.ac.id/32126/10/SKRIPSI%20TANPA%20BAB%20PEMBAHASAN.pdf

Dhilla, SM 2016, 'Pengaruh Pemberian Ekstrak Ethanol Umbi Bit (*Beta vulgaris L.*) Terhadap Jumlah, Morfologi Spermatozoa Serta Berat Testis Mencit Putih Jantan (*Mus musculus)* Yang Diberi Paparan Suhu Panas, Universitas Andalas. http://scholar.unand.ac.id/18944/3/BAB%20V.pdf

Dutta, S & Sugapta, P 2016, 'Men & Mice: Relating their ages', *Life Sciences*, vol.152, diakses pada tanggal 17 Januari 2018. *http://dx.doi.org/10.1016/j.lfs.2015.10.025*

Emirza E, 2012, ' Pengaruh paparan suhu terhadap kualitas spermatozoa mencit jantan (mus, musculus) strain jepang', *Saintis*, vol.1.

Ghasemian, F, Mirroshandel, SA, Monji-azad, S, Azarnia, M, Zahiri, Z 2015, 'An efficient method for automatic morphological abnormality detection from human sperm images', *Computer Methods & Programs in BioMedicine Elsevier*. http://dx.doi.org/10.1016/j.cmpb.2015.08.013

Guyton, H 2014, *Buku Ajar Fisiologi Kedokteran*, Edisi 12, Penerjemah Ermita dan Ibrahim, Penerbit Buku Elsevier, Singapura.

Haschek, WM 2010, *Male Reproductive System Fundamental Toxicologic Patholoy*, Penerbit Buku Elsevier, Singapore diakses pada tanggal 1 April 2019. https://www.sciencedirect.com/science/article/pii/B9780123704696000180

Herman, S 2009, 'Artikel Review on the Problem of Zinc Deficiency, Program Prevention and Its Prospect', *Media Peneliti dan Pengembang Kesehatan*, vol.xix.

Himpunan Endokrinologi dan Infertilitas Indonesia 2013, *Konsensus Penanganan Infertilitas*, HIFERI, Jakarta, diakses tanggal 23 Oktober 2018. https://www.labcito.co.id/wpcontent/uploads/2015/ref/ref/Konsensus_Infertilitas_Revisi_9-1.pdf

Ikatan Ahli Urologi Indonesia 2015, 'Panduan Penanganan Infertilitas Guidelines Infertilitas Pria 2015', *Ikatan Ahli Urologi Indonesia*, Jakarta, ed.2, diakses pada tanggal 12 November 2018. https://www.medbox.org/guidelines-infertilitas-pria-2015/download.pdf

Junqueira, LC 2014, *Basic Histology Teks dan Atlas Edisi 10*, Penerbit Buku EGC, Jakarta.

Kageyama, K, Murasawa, S, Niioka, K, Otsuka, F, Yagi, H, Daimon, M 2 017,'Regulation of Gonadotropins by urocortin2 in Gonadotropic Tumor LβT2 cells', *Neuroscience letters*, vol.660 diakses pada tanggal 2 April 2019. http://dx.doi.org/10.1016/j.neulet.2017.08.052

Khoobbakht, Z, Mohammadi, M, Mehr, MRA, Mohammadghasemi, F, Sohani, MM 2018, 'Comparative effects of zinc oxide, zinc oxide nanoparticle and zinc-methionine on hatchability and reproductive variables in male Japanesse quail', *Animal Reproduction Science, Elsevier*, Februari 2018, diakses pada tanggal 26 Oktober 2018. http://dx.doi.org/10.1016/j.anireprosci.2018.02.017

Kurama, NP, Bodhi, W, Wiyono W 2013, 'Uji efek antidepressan ekstrak metanol jamur tlethong, Skripsi Program Sarjana Keokteran, Universitas Sam Ratulangi, Manado, *Jurnal Ilmia Farmasi UNSRAT*, vol.2, no.3 diakses pada tanggal 27 Januari 2019.
https://ejournal.unsrat.ac.id/index.php/pharmacon/article/view/2328

Lindgren MC 2018, 'Male Infertility', *Physician Assistant Clinic*, vol.3, no.1
https://doi.org/10.1016/j.cpha.2017.08.002

Majzoub, A & Agarwal, A 2018, 'Systemic Review of Antioxidant Types and Doses in Male infertility: Benefits on Semen Parametersm Advance Sperm Function, Assisted Reproduction and Live Birth Rate', *Arab Journal of Urology,*
https://doi.org/10/1016/j.aju.2017.11017

Musser, G 2017, 'The IUCN Red List of Threatened Species Mus Musculus', *International Union for Conservation of Nature,* Switzerland diakses pada tanggal 24 Januari 2019
http://www.iucnredlist.org/pdflink.4374382

Neto, FTL, Bach, PV, Najari, BB, Philiph, SL, Goldstein, M 2016, 'Spermatogenesis in Humans and Its affecting factors', *Seminars in Cell & Developmental Biology* diakses pada tanggal 23 Oktober 2018
http://dx.doi.org/10.1016/j.semcdb.2016.04.009

Payaran KO, Wantouw B & Tandean L, 2014, '*Pengaruh Pemberian Zink Terhadap Kualitas Spermatozoa Pada Mencit Jantan (Mus Musculus),* vol.2 diakses pada tanggal 14 November 2018

Purnomo, BB 2011, *Dasar-dasar UROLOGI*, Sagung Seto, Jakarta.

Prawirohardjo, S 2014, *Ilmu Kebidanan*, Jakarta, Yayasan Bina Pustaka Sarwono Prawirohardjo

Rahman, MB, Schellander, K, Luceno, NL, Soom, AV 2018, 'Heat stress responses in spermatozoa : Mechanism and consequences for cattle fertility, *Theriogenology*, diakses pada tanggal 5 April 2019
http://dx.doi.org/10.1016/j.theriogenology.2018.02.012

Ramadhani, D. 2007. Pengaruh pemberian ekstrak *Pimpinella pruatjan* Molkenb. (Purwoceng) fraksi kloroform secara oral terhadap kualitas spermatozoa *Mus musculus* L. (mencit) jantan galur DDY.

Said, TM, Agarwal, A, Rakesh, KS, Thomas, AJ, Suresh, CS 2005, 'Impact of sperm morphology on DNA damage caused by oxidative stress induced by nicotinamide adenine dinucleotide ephosphate', Tulane University Health Science, New Orleand, Louisiana, *Journal Fertility and Sterility*, vol. 83, no.1 diakses pada tanggal 18 April 2019 https://pdf.sematicscholar.org/32c5/b79269f1143743bc47d7f7db3c08a6a32402

Sherwood, L 2016, *Human Physiology From Cells to System Ninth Edition*, USA

Shadmehr, S, Tabatabaei. SRF, Hosseinifar, S, Tabandeh MR, Amiri, A 2017, 'Attenuation of heat stress induced spermatogenesis complications by betaine in mice'*Journal Theriogenology* diakses padan tanggal 3 April 2019 https://doi.org/10.1016/j.theriogenology.2017.10.008

Susilowati, AE 2009, 'Pengaruh Pemberian Ekstrak Bunga Rosella (*Hibiscus sabdariffa L.*) Terhadap Kerusakan Sel-sel Hepar Mencit (*Mus musculus*) Akibar Paparan Parasetamol, Skripsi Universitas Sebelas Maret http://eprints.ums.ac.id/29748/17/NASKAH_PUBLIKASI.pdf

Syarifudin, A, Laksmi, D, Bebas, W 2012, 'Efektivitas penambahan berbagai konsentrasi glutation terhadap daya hidup dan motilitas spermatozoa sapi bali post thawing', Indonesia, Bali, *Indonesia Medicus Veterinus*, vol.1, no.2, diakses pada tanggal 24 Januari 2019 https://ojs.unud.ac.id/index.php/imv/article/view/1806

Tang, WH, Jiang, H, Hong, K, Zhong, Q, Yang, CS, Zhao, LM, Liu, DF, Mao, JM, Yang, Y, Chen, Q, Yuan, RP, Li, B, Wei, N 2012, 'Relationship of sperm morphology with reproductive hormone levels in infertile men' European Bioinformatics Institute : US National Library of Medicine, *Journal NCBI*, vol.18, no.3, diakses pada tanggal 28 Januari 2019 https://www.ncbi.nlm.nih.gov/pubmed/22474991

Thijssen, A, Klerkx, A, Huyser, C, Bosmans, E, Campo, Rm Ombelet, W 2014, 'Influence of Temperature and Sperm Preparation on the Quality of Spermatozoa', *Reproductive Biomedicine Elsevier*, vol.28, no.4, diakses tanggal 23 Oktober 2018 http://dx.doi.org/10.1016/j.rbmo.2013.12.005

Tolistiawaty, I, Widjaja, J, Sumolang, PPF, Octaviani 2014, 'Gambaran Kesehatan pada Mencit (Mus musculus) di Instalasi Hewan Coba', *Jurnal Vektor Penyakit*, vol 8, no 1, Juni 2014, diakses pada tanggal 12 November 2018

Toor JS & Sikka SC, 2019, *Human Spermatozoa and Interaction With Oxidative Stress*, Volume 2, diakses pada tanggal 14 Januari 2019 http://dx.doi.org/10.1016/B978-0-12-812501-4.00006-7

World Health Organization 2010, 'Who Laboratory Manual for the Examination and Processing of Human Semen 5th edition', *World Health Organization,* edisi 5, diakses 10 November 2017 http://whqlibdoc.who.int/publications/2010/9789241547789_eng.pdf

Wu, J, Wu, S, Xie, Y, Wang, Z, Wu, R, Cai, J, Luo, X, Huang, S, You, L 2015, 'Zinc protect sperm from being damaged by reactive oxygen species in assisted reproduction techniques', *Elsevier*, diakses pada tanggal 22 April 2019 http://dx.doi.org/10.1016/j.rbmo.2014.12.008

Yamaguchi, S, Mura, C, Kikuchi, K, Celino, FT, Agusa, T, Tanabe, S, Miura, T 2009, 'Zinc is an essential trace element for spermatogenesis', *Proceedings of the National Academy of Sciences*, vol 106, no 26, Januari 2009, diakses pada tanggal 22 April 2019

Yi-wen, L, Tzu-han, H, Pauline, HY 2013, 'Mouse sperm acquire a new structure on the apizal hook during epididiymal maturation', Institute bionedical science, Taipei, *Asian Journal of Andrology*, vol.15, diakses pada tanggal 22 April 2019 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3739244