

## DAFTAR PUSTAKA

- Aitken, RJ, Roman, SD 2008, 'Antioxidant Systems and Oxidative Stress in the Testes', *Oxidative Medicine and Cellular Longevity*, Vol.1, No.1, hlm.15-24, diakses 22 Juli 2019.  
[https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2715191/pdf/omcl0101\\_0015.pdf](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2715191/pdf/omcl0101_0015.pdf)
- Almatsier, S 2010, *Prinsip Dasar Ilmu Gizi*, Gramedia Pustaka Utama, Jakarta.
- Anjasari, D, Sumarny, R, H, Wahyudi, U 2017, 'Evaluasi Penggunaan Obat Kemoterapi pada Pasien Kanker Payudara di RSPAD Gatot Soebroto Periode Januari - Desember 2015', *Social Clinical Pharmacy Indonesia Journal*, Vol.2, No.2, hlm.2502-8413, 17-22, diakses 13 Mei 2019.  
<http://journal.uta45jakarta.ac.id/index.php/SCPIJ/article/view/987/725>
- Arrington, LR 1972, *Introductory Laboratory Animal Science Care, The Breeding and Management of Experimental Animal*, Interstate Printers & Pub, Danville.
- Bakhtiary, Z, Shahrooz, R, Ahmadi, A, Farhad Soltanalinejad 2016, 'Ethyl Pyruvate Ameliorates The Damage Induced by Cyclophosphamide on Adult Mice Testes', *Royan Institute International Journal of Fertility and Sterility*, Vol 10, No.1, hlm.79-86, diakses 12 Juli 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4845533/>
- Beaudoin, J, RI, Labbé, S 2012, 'Mfc1 is a Novel Copper Transporter During Meiosis', *Landes Bioscience*, Vol.5, No.2, hlm.118-121, diakses 12 November 2019.  
<http://dx.doi.org/10.4161/cib.18716>
- Cyclophosphamide Monograph 2019, diakses 13 Juli 2019.  
<https://www.cancercareontario.ca/en/drugformulary/drugs/cyclophosphamide>
- Department of Health and Human Services, United State Goverment 2014, *National Public Health Action Plan for the Detection, Prevention, and Management of Infertility*, Goverment of United State of America, diakses 12 Juli 2019.  
[https://www.cdc.gov/reproductivehealth/infertility/pdf/drh\\_nap\\_final\\_508.pdf](https://www.cdc.gov/reproductivehealth/infertility/pdf/drh_nap_final_508.pdf)

Chasapis, CT, Loutsidou, AC, Spiliopoulou, CA, Stefanidou, ME 2011, 'Zinc and Human Health: an Update', *Arch Toxicol*, Vol.86, No.4, hlm.521-534, diakses 15 Juni 2019.  
<https://link.springer.com/article/10.1007%2Fs00204-011-0775-1>

Cocuzza, M, Sikka, SC, Athayde, KS, Agarwal, A 2007, 'Clinical Relevance of Oxidative Stress and Sperm Chromatin Damage in Male Infertility: An Evidence Based Analysis', *International Braz J Urol*, Vol.33, No.5, hlm.603-681, diakses 17 Mei 2019.  
[http://www.brazjurol.com.br/september\\_october\\_2007/Agarwal\\_ing\\_603\\_621.pdf](http://www.brazjurol.com.br/september_october_2007/Agarwal_ing_603_621.pdf)

De Jonge, ME 2005, *Pharmacokinetically guided dosing of (high-dose) Chemotherapeutic Agents*, Tesis Program Pasca Sarjana, Universitas Utrecht, diakses 23 Juli 2019.  
<https://dspace.library.uu.nl/bitstream/handle/1874/1245/full.pdf?sequence=1>

Ekhart, C, Doodeman, VD, Rodenhuis, S, Smits, PH, Beijnen, JH, Huitema, AD 2008, 'Influence of polymorphisms of drug metabolizing enzymes (CYP2B6, CYP2C9, CYP2C19, CYP3A4, CYP3A5, GSTA1, GSTP1, ALDH1A1 and ALDH3A1) on the pharmacokinetics of cyclophosphamide and 4-hydroxycyclophosphamide', *Pharmacogenetics and Genomics*, Vol 18, No. 6, hlm.515-523, diakses 19 Juli 2019.  
[https://journals.lww.com/jpharmacogenetics/Abstract/2008/06000/Influence\\_of\\_polymorphisms\\_of\\_drug\\_metabolizing.8.aspx](https://journals.lww.com/jpharmacogenetics/Abstract/2008/06000/Influence_of_polymorphisms_of_drug_metabolizing.8.aspx)

Emmenegger, U, Shaked, Y, Man, S, Bocci, G, Spasojevic, I, Francia, G, Kerbel, RS 2007, 'Pharmacodynamic and Pharmacokinetic Study of Chronic Low-dose Metronomic Cyclophosphamide Therapy in Mice', *American Association for Cancer Research*, Vol.6, No.8, hlm.2281, diakses 29 mei 2019.  
<https://mct.aacrjournals.org/content/6/8/2280.full-text.pdf>

Gardner, DG &Shoback, D 2011, *Greenspan's Basic and Clinical Endocrinology Ninth Edition*, McGraw-Hill Education / Medical, California.

Hall, JE 2015, *Guyton and Hall text book of Medical Physiology 13th Edition*, Elsevier Health Sciences, London.

Hambidge, KM, Krebs, NF 2007, 'Zinc Deficiency: A Special Challenge', *The Journal of Nutrition*, Vol.137, No.4, hlm.1101-1105, diakses 30 Juni 2019.  
[Hill, M n.d., \*BGD Practical 3 - Gametogenesis\*, diakses 12 Juli 2019, Embryology:\[https://embryology.med.unsw.edu.au/embryology/index.php/2010\\\_BGD\\\_Practical\\\_3\\\_-\\\_Gametogenesis\]\(https://embryology.med.unsw.edu.au/embryology/index.php/2010\_BGD\_Practical\_3\_-\_Gametogenesis\).](https://watermark.silverchair.com/1101.pdf?token=AQECAHi208BE49Ooa_n9kKhW_Ercy7Dm3ZL_9Cf3qfKAc485ysgAAAlcwggtJBgkqhkiG9w0BBwagggJEMIICQAIBADCCAjkGCSqGSIB3DQEHAeBglghkgBZQMEA S4wEQQM9yP3bePt4rnLiKyAAgEQgIICCjObGLMRaKqNhqaBmaucLt9qfJzhyc594q3s31PmLzjbbvDNYE1rVCCvAX0EBdfpxZGWNy14i_5u9NGGauQhLvTnxA_K7gNS7HbLSFYooDCasdJ0yayArany32w5ZTQvGSEFG8-n0xZQXCW9gyUiY65TvoVPKCrYG6pLmOjR6_pao7bptwUsGwy-eIE5mcfr_UZzUF163HOjG5DNe6Xt SZPv5_wFaQl869oBuw8Cg6FfFC78J0C3kITc9Fy3YHKLg05br9vZ-9jiq39yjaeo9c_nkUDVupUQyVSB1_FPiS5kp43vpfJ0irQN9f4UeEwzAFwOre2XjutFbOpfu6CsOIPhZlFsxhWfbhNUb0U6zNPXfAnNXK3Tv9lg0LXGACSB9B6bzoVPDxA1yDT1sBE0_9_Sd_C_nfJx_QbaQY8xStTl0CBJtKT_KzRBNwfMLyGjS4YOZn4kcZpRPx6xIjvpg8XzhmTojoQHy_xAilrz3YQjy0wb5MrVbN9McraJUh2fQTi0KL6NtsWOsl9zAso-wFPxQXE7Dwlcw-UGcZXAZWVvyqZUo5yXpFrujhUmaV4KQvcv0E8vag8-tfQPD2p_Z-bWxd-owqaEDe1cWvou4f_rI0AG9XHRZyVCEcvcw1A1nz99SRPO_MRP9RyszXtAYTa9BVI5Zbgmhg_USyAHELNVYkVwq4W8SIrw</a></p>
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Himpunan Endokrinologi Reproduksi dan Fertilitas Indonesia & Perhimpunan Fertilitas In Vitro Indonesia 2013, *Konsensus Penanganan Infertilitas*, Himpunan Endokrinologi Reproduksi dan Fertilitas Indonesia & Perhimpunan Fertilitas In Vitro Indonesia , Jakarta.

Hoffmen II, HN, Phyliky, RL, Fleming, GR 1988, 'Zinc-Induced Copper Deficiency', *GASTROENTEROLOGY*, Vol.94, No.2, hlm.508-512, diakses 03 Juli 2019.  
[https://www.gastrojournal.org/article/0016-5085\(88\)90445-3/pdf?referrer=https%3A%2F%2Fwww.ncbi.nlm.nih.gov%2F](https://www.gastrojournal.org/article/0016-5085(88)90445-3/pdf?referrer=https%3A%2F%2Fwww.ncbi.nlm.nih.gov%2F)

International Agency for Research on Cancer (IARC) 2012, *Cyclophosphamide*, World Health Organization, Lyon.

Jungwirth, A, Diemer, T, Dohle, G, Kopa, Z, C, Krausz, Tournaye, H 2017, Guidelines on Male Infertility, European Association of Urology, Arnhem, diakses 14 Juli 2019  
<https://uroweb.org/wp-content/uploads/EAU-Guidelines-Male-Infertility-2016-2.pdf>

- Kageyama, K 2013, 'Regulation of Gonadotropins by Corticotropin-Releasing Factor and Urocortin', *Frontiers In Endocrinology*, Vol.4, No.12, hlm.1-7, diakses 22 Juli 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3576618/pdf/fendo-04-00012.pdf>
- Kanno, TY, Sensiate, LA, Paula, NA, Salles, MJ 2009, 'Toxic Effects of Different Doses of Cyclophosphamide on the Reproductive Parameters of Male Mice', *Brazilian Journal of Pharmaceutical Sciences*, Vol.45, No.2, hlm.313-319, diakses 17 Juli 2019.  
<http://www.scielo.br/pdf/bjps/v45n2/v45n2a17.pdf>
- Kartika, AA, Siregar, HC, Fuah, AM 2013, 'Strategi Pengembangan Usaha Ternak Tikus (*Rattus norvegicus*) Dan Mencit (*Mus musculus*) di Fakultas Peternakan IPB', *Jurnal Ilmu Produksi dan Teknologi Hasil Peternakan*, Vol.1 No.3, hlm.147-153, diakses 12 Agustus 2019.  
<https://journal.ipb.ac.id/index.php/ipthp/article/viewFile/15543/11447>
- Knobil, E 2005, *Knobil and Neill's Physiology of Reproduction*, Elsevier, San Diego.
- Malole, M & Pramono 1989, *Penggunaan Hewan-hewan Percobaan di Laboratorium*. PAU - IPB, Bogor.
- Maremada, KP, Khan, S, Jena, G 2014, 'Zinc Protects Cyclophosphamide-induced Testicular Damage in Rat: Involvement of Metallothionein, Tesmin and Nrf2', *Biochemical and Biophysical Research Communications*, Vol.445, No.3, hlm.591-596, diakses 23 November 2019.  
<https://doi.org/10.1016/j.bbrc.2014.02.055>
- Mescher, AL 2014, *Histologi Dasar Junquiera Teks dan Atlas Edisi 12*, Penerbit Buku EGC, Jakarta.
- Moge, A, Ghare, S, Lamoreau, B, Mohammad, M, Barve, S, McClain, C, Joshi-Barve, S 2015, 'Molecular Mechanisms of Acrolein Toxicity: Relevance to Human Disease', *Toxicological Science*, Vol.143, No.2, hlm.242-255, diakses 30 Juni 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4306719/pdf/kfu233.pdf>
- Muliani, H 2011, 'Pertumbuhan Mencit (*Mus Musculus L.*) Setelah Pemberian Biji Jarak Pagar (*Jatropha curcas L.*)', *Buletin Anatomi dan Fisiologi*, Vol.19, No.1, hlm.44-54, diakses 17 Juni 2019.  
<https://doi.org/10.14710/baf.v19i1.2583>

- Pal, A 2015, 'Role of Copper and Selenium in Reproductive Biology: A Brief Update', *Biochemistry & Pharmacology*, Vol.4, No.4, hlm.1-5, diakses 27 November 2019.  
<https://www.longdom.org/open-access/role-of-copper-and-selenium-in-reproductive-biology-a-brief-update-2167-0501-1000181.pdf>
- Panahi, S, Abdollahifar, MA, Aliaghaei, A, Nazarian, H, Paktinat, S, Abdi, S, Farahani, R 2017, 'Application of Stereological Methods for Unbiased Estimation of Sperm Morphology in the Mice Induced by Busulfan', *Anatomy & Cell Biology*, Vol.50, No.4, hlm.301-305, diakses 17 Juni 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5768567/pdf/acb-50-301.pdf>
- Patricia , E 2007, *Endocrine Physiology 2nd Edition*, Lange McGraw-Hil, USA.
- Payaran, KO, Wantouw, B, Tendean, L 2014, 'Pengaruh Pemberian Zink Terhadap Kualitas Spermatozoa pada Mencit Jantan (Mus musculus)', *Jurnal e-Biomedik (eBM)*, Vol.2, No.2, hlm.496-500, diakses 27 Mei 2019.  
<https://ejournal.unsrat.ac.id/index.php/ebiomedik/article/view/5044/4561>
- Perhimpunan Dokter Paru Indonesia 2003, *Kanker Paru*, Perhimpunan Dokter Paru Indonesia, Jakarta.
- Powell, SR 2019, 'The Antioxidant Properties of Zinc', *The Journal Of Nutrition*, Vol.130, No.5, hlm.1477-1453, diakses 13 mei 2019.  
[https://watermark.silverchair.com/4w05t0s1447.pdf?token=AQECAHi208BE49Ooan9kkhW\\_Ercy7Dm3ZL\\_9Cf3qfKAc485ysgAAAmAwggJcBgkqhkiG9w0BBwagggJNMIICSQIBADCCAkIGCSqGSIb3DQEHTAeBglghkgBZQMEAS4wEQQM-b4ZTpD3KF3D3AH6AgEQgIICE7A8INuhCrotCiWvv9tYFnTEoMCaaUf1vFN-rVM1EaJEXGFT2qT3wwZEA-87fQRR7cu8KCIJ3xNHm20-](https://watermark.silverchair.com/4w05t0s1447.pdf?token=AQECAHi208BE49Ooan9kkhW_Ercy7Dm3ZL_9Cf3qfKAc485ysgAAAmAwggJcBgkqhkiG9w0BBwagggJNMIICSQIBADCCAkIGCSqGSIb3DQEHTAeBglghkgBZQMEAS4wEQQM-b4ZTpD3KF3D3AH6AgEQgIICE7A8INuhCrotCiWvv9tYFnTEoMCaaUf1vFN-rVM1EaJEXGFT2qT3wwZEA-87fQRR7cu8KCIJ3xNHm20-)  
[AFKZwjy6L3fMGTFNWxlrx5MmRMkOiv99LqUesu8mAlbZzN70CD07jkrkBSTcf7He1LAHvEhAFoGvbiUYBjf\\_9BV7jKAXJwJLCsblmgY8aSv9aJjzIexKROzJPjVXZ-Cwyin6PTHax7NtdWR5koYb\\_0BuTy-pUEFwW78Pwm\\_XELmfyZpwGr-aTJzJ3s\\_S9nZj3k\\_PuYKo-Z9oZwx5lGwiz7pSNgx9q16-eCOWMSqoAw36dsSd54uYT0cv1YToRQAD27KLF6ok4\\_p2Umo4QbJ4JsfXpFnJ3PWxdMwxUifdiwmnoqwlgIP7bHQShg2VHcCqTeZow1t\\_kVgYkhsJcBzrq-fmVmclheCBGGKn-XCJ3jAByNdCJGJVC7FezQdtQ1EvFV2xm4yg5mh\\_7sf7Ioh4wEqNWyaz6Nh1GdcFWnQB7OY8Jh7EwuZGDv6vIC\\_pwz5RPh16K1WhrFPgKxXu7lCreeBV60nSzohEE87WpgNZgRL-MUCEYYoAl2B\\_8hU59HwM2VwPiuhqgrN9jFu3X6bgLpzdBZR1z6a77N3dI8YaCty71vbsIiRQh06Q3Guz6HDQCzppqrPIAWTy\\_sQnymQsNee\\_1CU67EcDj69xJ-4ggumnf-vMeQ">https://watermark.silverchair.com/4w05t0s1447.pdf?token=AQECAHi208BE49Ooan9kkhW\\_Ercy7Dm3ZL\\_9Cf3qfKAc485ysgAAAmAwggJcBgkqhkiG9w0BBwagggJNMIICSQIBADCCAkIGCSqGSIb3DQEHTAeBglghkgBZQMEAS4wEQQM-b4ZTpD3KF3D3AH6AgEQgIICE7A8INuhCrotCiWvv9tYFnTEoMCaaUf1vFN-rVM1EaJEXGFT2qT3wwZEA-87fQRR7cu8KCIJ3xNHm20-](https://watermark.silverchair.com/4w05t0s1447.pdf?token=AQECAHi208BE49Ooan9kkhW_Ercy7Dm3ZL_9Cf3qfKAc485ysgAAAmAwggJcBgkqhkiG9w0BBwagggJNMIICSQIBADCCAkIGCSqGSIb3DQEHTAeBglghkgBZQMEAS4wEQQM-b4ZTpD3KF3D3AH6AgEQgIICE7A8INuhCrotCiWvv9tYFnTEoMCaaUf1vFN-rVM1EaJEXGFT2qT3wwZEA-87fQRR7cu8KCIJ3xNHm20-)

Pusat data dan informasi, Kementerian Kesehatan, Pemerintah Republik Indonesia 2015, *Buletin jendela datan dan Informasi Kesehatan - Situasi Penyakit Kanker*, Pemerintah Republik Indonesia, diakses tanggal 12 juli 2019  
<https://www.depkes.go.id/resources/download/pusdatin/infodatin/infodatin-kanker.pdf>

Rahman, M, Lee, JS, Kwon, WS, Pang, MG 2013, 'Review Article ; Sperm Proteomics: Road to Male Fertility and Contraception', *Hindawi Publishing Corporation International Journal of Endocrinology*, hlm.1-11, diakses 28 Juli 2019.  
<http://downloads.hindawi.com/journals/ije/2013/360986.pdf>

Ray, D, Pitts, PB, Hogarth, CA, Whitmore, LS, Griswold, MD, Ye, P 2015, 'Computer Simulations of the Mouse Spermatogenic Cycle', *The Company of Biologists Ltd*, Vol.4, No.1, hlm.1-12, diakses 18 Mei 2019.  
<https://bio.biologists.org/content/biopen/4/1/1.full.pdf>

Rhamadani 2007, *Pengaruh Pemberian Ekstrak Pimpinella pruatjan Moelkenb. (Purwoceng) Fraksi Kloroform Secara Oral Terhadap Kualitas Spermatozoa Mus musculus L (Mencit) Jantan Galur DDY*, Skripsi Fakultas Kedoteran, Universitas Indonesia, diakses 16 Juni 2019.  
[http://lib.ui.ac.id/file?file=pdf/abstrak/id\\_abstrak-20175512.pdf](http://lib.ui.ac.id/file?file=pdf/abstrak/id_abstrak-20175512.pdf)

Sankako, MK, Garcia, PC, Piffer, RC, Dallaqua, B, Damasceno, DC, Pereira, OC 2012, 'Possible Mechanism by Which Zinc Protects the Testicular Function of Rats Exposed to Cigarette Smoke', *Pharmacological Reports*, Vol.64, No.6, hlm.1537-1546, diakses 11 Juli 2019.  
[http://www.if-pan.krakow.pl/pjp/pdf/2012/6\\_1537.pdf](http://www.if-pan.krakow.pl/pjp/pdf/2012/6_1537.pdf)

Sharma, A 2017, 'Male Infertility Evidences, Risk Factors, Causes, Diagnosis and Management in Human', *Annals of Clinical and Laboratory Research*, Vol.5, No.3, hlm.1-10, diakses 11 Juli 2019.  
[https://pdfs.semanticscholar.org/0514/82a78512a7096c118e96469c503a846a4edb.pdf?\\_ga=2.110660933.1769180079.1578459099-1706283820.1578459099](https://pdfs.semanticscholar.org/0514/82a78512a7096c118e96469c503a846a4edb.pdf?_ga=2.110660933.1769180079.1578459099-1706283820.1578459099)

Sharma, RK 2007, 'Physiology of Male Gametogenesis', *Reproductive Research Center Chapter 4*, hlm.74-83, diakses 19 Mei 2019.  
<https://ccf.org/reproductiveresearchcenter/docs/sharkch001.pdf>

Sherwood, L 2013, *Fisiologi Manusia dari Sel ke Sistem Edisi 8*, Penerbit Buku EGC, Jakarta.

Shimizu, S 2004, 'Routes of Administration', *Elsevier Chapter 32*, hlm.527 - 541, diakses 21 Juli 2019.  
<http://www.usp.br/bioterio/Artigos/Procedimentos%20experimentais/Route administration-4.pdf>

- Skakkebaek, NE 2010, 'Normal Reference Ranges for Semen Quality and Their Relations to Fecundity', *Asian Journal of Andrology*, Vol.12, No.1, hlm.95-98, diakses 13 Agustus 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3739681/pdf/aja200843a.pdf>
- Sumedi E & Sandjaja 2015, 'Asupan Zat Besi, Vitamin A dan Zink Anak Indonesia Umur 6-23 Bulan (Low Iron, Vitamin A, and Zinc Intake of 6-23-Month old Indonesian Children)', *The Journal of Nutrition and Food Research*, Vol.38, No.2, hlm.167-175, diakses 18 Juni 2019.  
<http://ejournal.litbang.depkes.go.id/index.php/pgm/article/view/5546/4515>
- Tao, L & Kendall 2013, *Sinopsis organ sistem reproduksi*, Karisma Publishing Group, Jakarta.
- Torabi, F, Malekzadeh SM, Rezaei, N 2017, 'Combined Protective Effect of Zinc Oxide Nanoparticles and Melatonin on Cyclophosphamide-Induced Toxicity in Testicular Histology and Sperm Parameters in Adult Wistar Rats', *International Journal of Reproductive BioMedicine*, Vol.15, No.7, hlm.403-412, diakses 28 Mei 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5601931/pdf/ijrb-15-403.pdf>
- Tortorra, B & Derrickson, GJ 2014, *Dasar Anatomi & Fisiologi*, Penerbit Buku EGC, Jakarta.
- Tvrda, E, Peer, R, Sikka, SC, Agarwal, A 2015, 'Iron and Copper in Male Reproduction: a Double-edged Sword', *Journal of Assisted Reproduction and Genetics*, Vol.32, No.1, hlm.3-16, diakses 15 November 2019.  
[https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4294866/pdf/10815\\_2014\\_Article\\_344.pdf](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4294866/pdf/10815_2014_Article_344.pdf)
- Tzeng, WF, Elangovan, N, Chiou, TJ, Chu, ST 2006, 'Cyclophosphamide Treatment Causes Impairment of Sperm and Its Fertilizing Ability in Mice', *Elsevier Toxicology*, Vol.222, No.1, hlm.60-70, diakses 08 Juli 2019.  
<https://doi.org/10.1016/j.tox.2006.01.027>
- Vasan, S 2011, 'Semen Analysis and Sperm Function Tests: How Much to Test?', *Indian Journal of Urology*, Vol.27, No.1, hlm.41-48, diakses 09 Mei 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3114587/>
- Willis, MS, Monaghan, S, Miller, M, McKenna, RW, Perkins, W, Levinson, BS, Kroft, SH 2005. 'Zinc-Induced Copper Deficiency; A Report of Three Cases Initially Recognized on Bone Marrow Examination', *American Society for Clinical Pathology*, Vol.123, No.1, hlm.125-131, diakses 16 November 2019.  
<https://doi.org/10.1309/V6GVYW2QTYD5C5PJ>

WHO 2010, *Laboratory Manual for the Examination and Processing of Human Semen 5th edition*, diakses 10 Juli 2019.  
[https://apps.who.int/iris/bitstream/handle/10665/44261/9789241547789\\_eng.pdf;jsessionid=203B2FA41231E6AC1788A18D09F1E1CF?sequence=1](https://apps.who.int/iris/bitstream/handle/10665/44261/9789241547789_eng.pdf;jsessionid=203B2FA41231E6AC1788A18D09F1E1CF?sequence=1)

