

Daftar Pustaka

- Baillie, HS, Pacey, AA, Warren, MA, Scudamore, IW and Barratt, CL (1997). Greater numbers of human spermatozoa associate with endosalpingeal cells derived from the isthmus compared with those from the ampulla. *Hum Reprod* 12, 1985–1992.
- Banmeyer I, Marchand C, Clippe A, & Knoops, B (2005). Human mitochondrial peroxiredoxin 5 protects from mitochondrial DNA damages induced by hydrogen peroxide. *FEBS letters*, 579(11), 2327–2333.
- Beerthuizen RJ, Van Wijck JA, Eskes TK, Vermeulen AH & Vooijs GP (1982). IUD and salpingitis: a prospective study of pathomorphological changes in the oviducts in IUD-users. *Eur J Obstet Gynecol Reprod Biol*, 13(1), 31–41. [https://doi.org/10.1016/0028-2243\(82\)90035-1](https://doi.org/10.1016/0028-2243(82)90035-1)
- Bhadra P, Baxi S, Shah A, Hazra MN (1996). Effects of aging on microscopic changes in fallopian tube. *J Obstet Gynaecol India*, (2):85-89
- Blatt, EN, Yan, XH, Wuerffel, MK, Hamilos, DL, & Brody, SL (1999). Forkhead transcription factor HFH-4 expression is temporally related to ciliogenesis. *Am J Respir Cell Mol Biol*. 21(2), 168–176. <https://doi.org/10.1165/ajrcmb.21.2.3691>
- Bouyer J, Coste J, Shojaei T, Pouly JL, Fernandez H, Gerbaud L and Jo Spira N (2003) Risk factors for ectopic pregnancy: a comprehensive analysis based on a large case-control, population-based study in France. *Am J Epidemiol* 157,185–194.
- Bulletti, C., Coccia, M. E., Battistoni, S., & Borini, A. (2010). Endometriosis and infertility. *J Assist Reprod Genet*, 27(8), 441–447. <https://doi.org/10.1007/s10815-010-9436-1>
- Burney RO & Giudice LC. (2012). Pathogenesis and pathophysiology of endometriosis. *Fertil steril*, 98(3), 511–519.
- Capmas, P, Suarhana, E, & Tulandi, T (2021). Management of Hydrosalpinx in the Era of Assisted Reproductive Technology: A Systematic Review and Meta-analysis. *J Minim Invasive Gynecol*, 28(3), 418–441. <https://doi.org/10.1016/j.jmig.2020.08.017>
- Choksi, SP, Lauter, G, Swoboda, P, & Roy, S (2014). Switching on cilia: transcriptional networks regulating ciliogenesis. *Development* 141(7), 1427–1441. <https://doi.org/10.1242/dev.074666>
- Croxatto HB (2002). Physiology of gamete and embryo transport through the fallopian tube. *Reprod biomed online*, 4(2), 160–169. [https://doi.org/10.1016/s1472-6483\(10\)61935-9](https://doi.org/10.1016/s1472-6483(10)61935-9)
- Cohen CR, Gichui J, Rukaria R, Sinei SS, Gaur LK and Brunham RC (2003) Immunogenetic correlates for Chlamydia trachomatis-associated tubal infertility. *Obstet Gynecol* 101, 438–444.
- Cooper, MD, Rapp, J, Jeffery-Wiseman, C, Barnes, RC and Stephens, DS (1990). Chlamydia trachomatis infection of human fallopian tube organ cultures. *J Gen Microbiol* 136, 1109–1115.
- Croxatto, HB and Villalon, M (1995). Oocyte transport. In Grudzinskas JG, Yovich JL (eds) Cambridge Reviews in Human Reproduction. Gametes – The Oocyte. Cambridge University Press, Cambridge, pp. 253–276.
- Dahlan, M.S. (2016). Besar Sampel Dalam Penelitian Kedokteran dan Kesehatan. Jakarta: Epidemiologi Indonesia.
- Dean, D and Powers, VC (2001). Persistent Chlamydia trachomatis infections resist apoptotic stimuli. *Infect Immun* 69, 2442–2447.
- Donnez, J, Casanas-Roux, F, Ferin, J and Thomas, K (1984). Fimbrial ciliated cells percentage and epithelial height during and after salpingitis. *Eur J Obstet Gynecol Reprod Biol.*, 17(4), 293–299. [https://doi.org/10.1016/0028-2243\(84\)90072-8](https://doi.org/10.1016/0028-2243(84)90072-8)

- Dorrington, MG, & Fraser, I (2019). NF- κ B Signaling in Macrophages: Dynamics, Crosstalk, and Signal Integration. *Front Immunol*, 10, 705. <https://doi.org/10.3389/fimmu.2019.00705>
- Dun, EC, & Nezhat, CH (2012). Tubal factor infertility: diagnosis and management in the era of assisted reproductive technology. *Obstet Gynecol Clin North Am*. 39(4), 551–566. <https://doi.org/10.1016/j.ogc.2012.09.006>
- Ersahin, A. A., Ersahin, S., & Gungor, N. D. (2020). Surgical Removal of Hydrosalpinx Improves Endometrium Receptivity by Decreasing Nuclear Factor-Kappa B Expression. *Reprod sci*, 27(3), 787–792. <https://doi.org/10.1007/s43032-019-00136-y>
- Gao Y, Ge X, Wang X, Gu Z. (2021). The Association between the Decreased Expression Levels of FOXJ1 and the Activation of the NF- κ B Pathway in Interstitial Lung Disease of MR L/Lpr Mice. *Iran J Immunol*, 18(3):210-219. doi:10.22034/iji.2021.89385.1944
- Gilmore, TD (2006). Introduction to NF-kappaB: players, pathways, perspectives. *Oncogene*, 25(51):6680-6684. doi:10.1038/sj.onc.1209954
- Greydanus, D. E., Cabral, M. D., & Patel, D. R. (2022). Pelvic inflammatory disease in the adolescent and young adult: An update. *Disease-a-month:DM*, 68(3), 101287. <https://doi.org/10.1016/j.disamonth.2021.101287>
- Grimes, DA. (2000). Intrauterine device and upper-genital-tract infection. *Lancet*, 356(9234):1013-1019. doi:10.1016/S0140-6736(00)02699-4
- Gaudoin, M, Rekha, P, Morris, A, Lynch, J and Acharya, U (1999) Bacterial vaginosis and past chlamydial infection are strongly and independently associated with tubal infertility but do not affect in vitro fertilization success rates. *Fertil Steril* 72,730–732
- Hagiwara, H, Ohwada, N, Aoki, T and Takata, K (2000) Ciliogenesis and ciliary abnormalities. *Med Electron Microsc* 33,109–114.
- Hagiwara, H., Ohwada, N., Aoki, T., Suzuki, T., & Takata, K. (2008). The primary cilia of secretory cells in the human oviduct mucosa. *Med Mol Morphol*, 41(4), 193–198.
- Haggerty, C. L., Gottlieb, S. L., Taylor, B. D., Low, N., Xu, F., & Ness, R. B. (2010). Risk of sequelae after Chlamydia trachomatis genital infection in women. *J Infect Dis*, 201 Suppl 2, S134–S155. <https://doi.org/10.1086/652395>
- Herzog, S. A., Althaus, C. L., Heijne, J. C., Oakeshott, P., Kerry, S., Hay, P., & Low, N. (2012). Timing of progression from Chlamydia trachomatis infection to pelvic inflammatory disease: a mathematical modelling study. *BMC infectious diseases*, 12, 187. <https://doi.org/10.1186/1471-2334-12-187>
- Hillis, S. D., Joesoef, R., Marchbanks, P. A., Wasserheit, J. N., Cates, W., Jr, & Westrom, L. (1993). Delayed care of pelvic inflammatory disease as a risk factor for impaired fertility. *Am J Obstet Gynecol*, 168(5), 1503–1509. [https://doi.org/10.1016/s0002-9378\(11\)90790-x](https://doi.org/10.1016/s0002-9378(11)90790-x)
- Hildebrandt, F., Benzing, T., & Katsanis, N. (2011). Ciliopathies. *N Engl J Med*. 364(16), 1533–1543. <https://doi.org/10.1056/NEJMra1010172>
- Hinton, E. L., Bobo, L. D., Wu, T. C., Kurman, R. J., & Viscidi, R. P. (2000). Detection of Chlamydia trachomatis DNA in archival paraffinized specimens from chronic salpingitis cases using the polymerase chain reaction. *Fertil steril*, 74(1), 152–157. [https://doi.org/10.1016/s0015-0282\(00\)00556-2](https://doi.org/10.1016/s0015-0282(00)00556-2)
- Jackson, BC, Carpenter, C, Nebert, DW, Vasiliou, V (2010). Update of human and mouse forkhead box (FOX) gene families. *Hum Genomics*, 4(5), 345–52. doi:10.1186/1479-7364-4-5-345. PMC 3500164. PMID 20650821
- Ji Y, Chae S, Lee HK, et al.(2019). Peroxiredoxin5 Controls Vertebrate Ciliogenesis by Modulating Mitochondrial Reactive Oxygen Species. *Antioxid Redox Signal*, 30(14), 1731-1745.

- Kelly KA, Natarajan S, Ruther P, Wisse A, Chang MH and Ault KA (2001) Chlamydia trachomatis infection induces mucosal addressin cell adhesion molecule-1 and vascular cell adhesion molecule-1, providing an immunologic link between the fallopian tube and other mucosal tissues. *J Infect Dis* 184,885–891.
- Kropotov, A., Usmanova, N., Serikov, V., Zhivotovsky, B., & Tomilin, N. (2007). Mitochondrial targeting of human peroxiredoxin V protein and regulation of PRDX5 gene expression by nuclear transcription factors controlling biogenesis of mitochondria. *The FEBS journal*, 274(22), 5804–5814. <https://doi.org/10.1111/j.1742-4658.2007.06103.x>
- LaVerda D, Kalayoglu MV and Byrne GI (1999) Chlamydial heat shock proteins and disease pathology: new paradigms for old problems? *Infect Dis Obstet Gynecol* 7,64–71
- Leng, Z., Moore, D. E., Mueller, B. A., Critchlow, C. W., Patton, D. L., Halbert, S. A., & Wang, S. P. (1998). Characterization of ciliary activity in distal Fallopian tube biopsies of women with obstructive tubal infertility. *Hum reprod (Oxford, England)*, 13(11), 3121–3127. <https://doi.org/10.1093/humrep/13.11.3121>
- Li, S., & Winuthayanon, W. (2017). Oviduct: roles in fertilization and early embryo development. *J Endocrinol*, 232(1), R1–R26. <https://doi.org/10.1530/JOE-16-0302>
- Lin, L., Spoor, M. S., Gerth, A. J., Brody, S. L., & Peng, S. L. (2004). Modulation of Th1 activation and inflammation by the NF-kappaB repressor Foxj1. *Science (New York, N.Y.)*, 303(5660), 1017–1020. <https://doi.org/10.1126/science.1093889>
- Liu, T., Zhang, L., Joo, D., & Sun, S. C. (2017). NF-κB signaling in inflammation. *Signal Transduct Target Ther*, 2, 17023–. <https://doi.org/10.1038/sigtrans.2017.23>
- Liao SB, Cheung KH, Cheung MP, To YT, O WS & Tang F (2013) Adrenomedullin increased the short-circuit current in the pig oviduct through chloride channels via the CGRP receptor: mediation by cAMP and calcium ions but not by nitric oxide. *Biol Reprod*, 89-99.
- Livak, KJ, & Schmittgen, TD (2001). Analysis of relative gene expression data using real-time quantitative PCR and the 2(-Delta Delta C(T)) Method. *Methods (San Diego, Calif.)*, 25(4), 402–408. <https://doi.org/10.1006/meth.2001.1262>
- Lyons, R. A., Saridogan, E., & Djahanbakhch, O. (2006). The reproductive significance of human Fallopian tube cilia. *Hum reprod update*, 12(4), 363–372. <https://doi.org/10.1093/humupd/dml012>
- Ma, P, Zhou, Y, Fang, P, Ke, W, Xiao, S, Fang, L (2022). Molecular cloning, prokaryotic expression and the anti-inflammatory activity of porcine PRDX5. *Dev Comp Immunol*, 136:104515. doi:10.1016/j.dci.2022.104515
- Mahmood, T, Saridogan, E, Smutna, S, Habib, AM and Djahanbakhch, O (1998) The effect of ovarian steroids on epithelial ciliary beat frequency in the human fallopian tube. *Hum Reprod* 13,2991–2994.
- Marshall, CB, Mays, DJ, Beeler, JS, Rosenbluth, JM, Boyd, KL, Santos Guasch, GL, et al. (2016). "p73 Is Required for Multiciliogenesis and Regulates the Foxj1-Associated Gene Network". *Cell Reports*. 14 (10): 2289–300. doi:10.1016/j.celrep.2016.02.035. PMC 4794398. PMID 26947080
- Matsuda, N, Jwa, SC, Tamura, S (2022). Factors associated with an unfavorable clinical course in hospitalized patients with pelvic inflammatory disease: a retrospective cohort study of 117 patients from a Japanese academic institution. *BMC Womens Health*, 22(1):348. doi:10.1186/s12905-022-01925-5
- Matthews, SJ, Shires, S, Picton, HM, Rutherford, AJ, Balen, AH, Sharma, V, et al. (2002) Pre- and post-natal tobacco exposure and tubal disease. *Hum Reprod* 17,Abstract Book 1,80

- Maillo, V, Sánchez-Calabuig, MJ, Lopera-Vasquez, R, et al. (2016) Oviductal response to gametes and early embryos in mammals. *Reprod.* 152(4):127-141. doi:10.1530/REP-16-0120
- McGee, ZA, Clemens, CM, Jensen, RL, Klein, JJ, Barley, LR and Gorby, GL (1992) Local induction of tumor necrosis factor as a molecular mechanism of mucosal damage by gonococci. *Microb Pathog* 12,333–341.
- Morales P, Palma V, Salgado AM and Villalon M (1996) Sperm interaction with human oviductal cells in vitro. *Hum Reprod* 11,1504–1509.
- Muglia U and Motta PM (2001) A new morpho-functional classification of the fallopian tube based on its three-dimensional myoarchitecture. *Histol Histopathol* 16,227–237
- Neto, E. P., Fuhrich, D. G., Carson, D. D., Engel, B. J., & Savaris, R. F. (2014). Elafin expression in mucosa of fallopian tubes is altered by hydrosalpinx. *Reprod sciences (Thousand Oaks, Calif.)*, 21(3), 401–407. <https://doi.org/10.1177/1933719113497291>
- Ombelet, W., Cooke, I., Dyer, S., Serour, G., & Devroey, P. (2008). Infertility and the provision of infertility medical services in developing countries. *Human reproduction update*, 14(6), 605–621. <https://doi.org/10.1093/humupd/dmn042>
- Owhor LE, Reese S, Kölle S. (2019) Salpingitis Impairs Bovine Tubal Function and Sperm-Oviduct Interaction. *Sci Rep*, 9(1):10893. Published 2019 Jul 26. doi:10.1038/s41598-019-47431-x
- Pacey, AA, Hill, CJ, Scudamore, IW, Warren, MA, Barratt, CLR and Cooke, ID (1995) The interaction in vitro of human spermatozoa with epithelial cells from the human uterine (fallopian) tube. *Hum Reprod* 10,360–366.
- Paltieli Y, Eibschitz I, Ziskind G, Ohel G, Silbermann M, Weichselbaum A. (2000). High progesterone levels and ciliary dysfunction--a possible cause of ectopic pregnancy. *J Assist Reprod Genet*, 17(2):103-106. doi:10.1023/a:1009465900824
- Perfettini JL, Darville T, Dautry-Varsat A, Rank RG and Ojcius DM (2002) Inhibition of apoptosis by gamma interferon in cells and mice infected with Chlamydia muridarum (the mouse pneumonitis strain of Chlamydia trachomatis). *Infect Immun* 70,2559–2565.
- Perfettini JL, Darville T, Gachelin G, Souque P, Huerre M, Dautry-Varsat A and Ojcius DM (2000) Effect of Chlamydia trachomatis infection and subsequent tumor necrosis factor alpha secretion on apoptosis in the murine genital tract. *Infect Immun* 68,2237–2244.
- Pier, B., Kazanjian, A., Gillette, L., Streng, K., & Burney, R. O. (2013). Effect of cigarette smoking on human oviductal ciliation and ciliogenesis. *Fertil steril*, 99(1), 199–205. <https://doi.org/10.1016/j.fertnstert.2012.08.041>
- Ramírez-Pavez, T. N., Martínez-Esparza, M., Ruiz-Alcaraz, A. J., Marín-Sánchez, P., Machado-Linde, F., & García-Peñarrubia, P. (2021). The Role of Peritoneal Macrophages in Endometriosis. *Int J Mol Sci*, 22(19), 10792. <https://doi.org/10.3390/ijms221910792>
- Reeve L, Lashen H and Pacey AA (2005) Endometriosis affects sperm endosalpingeal interactions. *Hum Reprod* 20,448–451.
- Rhoton-Vlasak A. (2000). Infections and infertility. *Prim Care Update Ob Gyns*, 7(5):200-206. doi:10.1016/s1068-607x(00)00047-0
- Saridogan E, Djahanbakhch O, Puddefoot JR, Demetroulis C, Collingwood K, Mehta JG and Vinson GP (1996) Angiotensin II receptors and angiotensin II stimulation of ciliary activity in human fallopian tube. *J Clin Endocrinol Metab* 81,2719–2725
- Satir, P (1992) Mechanisms of ciliary movement: contributions from electron microscopy. *Scanning Microsc* 6,573–579.
- Song, Y., Wang, Q., Huang, W., Xiao, L., Shen, L., & Xu, W. (2012). NF κ B expression increases and CFTR and MUC1 expression decreases in the endometrium of infertile

- patients with hydrosalpinx: a comparative study. *Reprod boil endocrin: RB&E*, 10, 86. <https://doi.org/10.1186/1477-7827-10-86>
- Soper, D. E., & Wiesenfeld, H. C. (2021). The Continued Challenges in the Diagnosis of Acute Pelvic Inflammatory Disease: Focus on Clinically Mild Disease. *J infect dis*, 224(12 Suppl 2), S75–S79. <https://doi.org/10.1093/infdis/jiab158>
- Stubbs, J. L., Oishi, I., Izpisua Belmonte, J. C., & Kintner, C. (2008). The forkhead protein Foxj1 specifies node-like cilia in *Xenopus* and zebrafish embryos. *Nature genetics*, 40(12), 1454–1460. <https://doi.org/10.1038/ng.267>
- Taylor-Robinson AW, Borriello SP and Taylor-Robinson D (1993) Identification and preliminary characterization of a cytotoxin isolated from *Mobiluncus* spp. *Int J Exp Pathol* 74,357–366.
- Tung, C. K., & Suarez, S. S. (2021). Co-Adaptation of Physical Attributes of the Mammalian Female Reproductive Tract and Sperm to Facilitate Fertilization. *Cells*, 10(6), 1297. <https://doi.org/10.3390/cells10061297>
- Varga, I., Miko, M., Kachlík, D., Žiškova, M., Danihel, L., Jr, & Babál, P. (2019). How many cell types form the epithelial lining of the human uterine tubes? Revision of the histological nomenclature of the human tubal epithelium. *Annals of anatomy = Anatomischer Anzeiger : official organ of the Anatomische Gesellschaft*, 224, 73–80. <https://doi.org/10.1016/j.aanat.2019.03.012>
- Villalon M and Cardina-Danovaro M (1994) ATP increases the frequency of ciliary beat of human oviductal ciliated cells. *Prog Clin Biol Res* 80,59–65
- Weström L. V. (1994). Sexually transmitted diseases and infertility. *Sexually transmitted diseases*, 21(2 Suppl), S32–S37
- Workowski KA, Bachmann LH, Chan PA, et al. Sexually Transmitted Infections Treatment Guidelines, 2021. *MMWR Recomm Rep*. 2021;70(4):1-187. Published 2021 Jul 23. doi:10.15585/mmwr.rr7004a1
- World Health Organization. Global Health Observatory (GHO) data – Overweight and obesity (2020) [Available from: https://www.who.int/gho/ncd/risk_factors/overweight_obesity/obesity_adults/en/]
- Wiesenfeld HC, Hillier SL, Krohn MA, Amortegui AJ, Heine RP, et al. (2002) Lower genital tract infection and endometritis: insight into subclinical pelvic inflammatory disease. *Obstet Gynecol* 100,456–463.
- Wilcox, AJ, Weinberg, CR and Baird, DD (1995) Timing of sexual intercourse in relation to ovulation. Effects on the probability of conception, survival of the pregnancy, and sex of the baby. *N Engl J Med* 333,1517–1521
- Witkin, SS (2002) Immunological aspects of genital chlamydia infections. *Best Pract Res Clin Obstet Gynaecol* 16,865–874.
- Xu, J., Luo, X., Qu, S., Yang, G., & Shen, N. (2019). B cell activation factor (BAFF) induces inflammation in the human fallopian tube leading to tubal pregnancy. *BMC pregnancy and childbirth*, 19(1), 169. <https://doi.org/10.1186/s12884-019-2324-5>
- Yohannes, E., Kazanjian, A. A., Lindsay, M. E., Fujii, D. T., Ieronimakis, N., et al. (2019). The human tubal lavage proteome reveals biological processes that may govern the pathology of hydrosalpinx. *Scientific reports*, 9(1), 8980.
- Yu X, Ng CP, Habacher H, Roy S (December 2008). "Foxj1 transcription factors are master regulators of the motile ciliogenic program". *Nature Genetics*. 40 (12): 1445–53. doi:10.1038/ng.263. PMID 19011630. S2CID 205347068