

BAB VII

DAFTAR PUSTAKA

Adhikari D, Gorre N, Risal S, Zhao Z, Zhang H, Shen Y, et al. The safe use of a PTEN inhibitor for the activation of dormant mouse primordial follicles and generation of fertilizable eggs. *Plos ONE*. 2012;7(6):1–7.

Araújo VR, Silva GM, Duarte ABG, Magalhães DM, Almeida AP, Gonçalves RFB, et al. Vascular endothelial growth factor-A165 (VEGF-A165) stimulates the in vitro development and oocyte competence of goat preantral follicles. *Cell and Tissue Research*. 2011;346: 273–281.

Ayuandari S, Khasanah N, Riyanti IW, Dewanto A, Enisar Sangun DI, Wiweko B. Current awareness and attitude toward fertility preservation in Indonesia: A nationwide survey among health-care providers. *J Hum Reprod Sci*. 2021;14:81-86.

Ayuandari S, Katharina W, Paulitsch M, Wagner C, Zavadil C, anzl C, et al. Follicular growth after xenotransplantation of cryopreserved/thawed human ovarian tissue in SCID mice: dynamics and molecular aspects. *Journal of assisted reproduction and genetics*. 2016;33 (12), 1585-1593.

Beck K, Singh J, Dar MA, Anzar M. Angiogenesis and follicular development in ovarian tissue of cattle following vitrification and post-warming culture on chicken chorioallantoic membrane. *Animal Reproduction Science*. 2019; 212:106254.

Behringer K, Breuer K, Reineke T, May M, Nogova L, Klimm B, et al. Sekunder amenorrhea after Hodgkin's lymphoma is influenced by age at treatment, stage of disease, chemotherapy regimen, and the use of oral contraceptives during therapy: a report from the German Hodgkin's Lymphoma Study Group. *J Clin Oncol*. 2005 Oct 20;23(30):7555–64.

Brougham MFH, Wallace WHB. Subfertility in children and young people treated for solid and haematological malignancies. *Br J Haematol*. 2005 Oct;131(2):143–55.

Cacciottola L, Manavella DD, Amorim CA, Donnez J, Dolmans MM. In vivo characterization of metabolic activity and oxidative stress in grafted human ovarian tissue using microdialysis. *Fertil Steril*. 2018;110: 534–544.

Cohen Y, Dafni H, Avni R, Raz T, Biton I, Hemmings B, et al. In search of signaling pathways critical for ovarian graft reception: Akt1 is essential for long-term survival of ovarian grafts. *Fertil Steril*. 2014 February;101(2):0015-0282.

Cushman RA, Wahl CM, Fortune JE. Bovine ovarian cortical pieces grafted to chick embryonic membranes: a model for studies on the activation of primordial follicles. *Hum Reprod*. 2002;17:48–54.

Delgado-Rosas F, Gaytán M, Morales C, Gómez R, Gaytán F. Superficial ovarian cortex vascularization is inversely related to the follicle reserve in normal cycling ovaries and is increased in polycystic ovary syndrome. *Hum. Reprod*. 2009;24:1142–1151.

Dolmans M-M, Donnez J, Cacciottola L. Fertility preservation: the challenge of freezing and transplanting ovarian tissue. *Trends in Molecular Medicine*. 2020 Dec 9;S1471-4914(20)30386-0.

Donfack NJ, Alves KA, Araújo VR, Cordova A, Figueiredo JR, Smitz J, et al. Expectations and limitations of ovarian tissue transplantation. *Zygote*. 2017 Aug;25(4):391-403.

Donnez J, Dolmans M-M, Diaz C, Pellicer A. Ovarian cortex transplantation: time to move on from experimental studies to open clinical application. *Fertil Steril*. 2015a Nov;104(5):1097–8.

Donnez J, Dolmans M-M. Ovarian cortex transplantation: 60 reported live births brings the success and worldwide expansion of the technique towards routine clinical practice. *J Assist Reprod Genet*. 2015b;9–13.

Donnez J, Dolmans M-M, Pellicer A, Diaz-Garcia C, Sanchez SM, Schmidt KT, et al. Restoration of ovarian activity and pregnancy after transplantation of cryopreserved ovarian tissue: a review of 60 cases of reimplantation. *Fertil Steril*. 2013a May;99(6):1503–13.

Donnez J. Fertility preservation in women. *Nat Rev Endocrinol*. 2013b Dec;9(12):735-49.

Du Cheyne C, Tay H, De Spiegelaere W. The complex TIE between macrophages and angiogenesis. *Anatomia, histologia, embryologia*. 2019 Nov 27;49(5):585-596.

Fertility preservation in patients undergoing gonadotoxic therapy or gonadectomy: a committee opinion. *Fertil Steril*. Elsevier; 2013 Nov 11;100(5):1214–23.

Fraser HM. Regulation of the ovarian follicular vasculature. *Reprod Biol Endocrinol* 2006;4:18.

Gabrielli MG, Accili D. The chick chorioallantoic membrane: a model of molecular, structural, and functional adaptation to transepithelial ion transport and barrier function during embryonic development. *J Biomed Biotechnol*. 2010:940741

Gavish Z, Spector I, Peer G, Schlatt S, Wistuba J, Roness H, et al. Follicle activation is a significant and immediate cause of follicle loss after ovarian tissue transplantation. *J Assist Reprod Genet*. 2018;35(1):61–69.

Gavish Z, Peer G, Hadassa R, Cohen Y, Meirow D. Follicle activation and 'burn-out' contribute to post-transplantation follicle loss in ovarian tissue grafts: the effect of graft thickness. *Hum Reprod*. 2014 May;29(5):9.

Getreu N. 2014. Comparison of AMH, Ki67 & FSH receptor expression in xenografted fresh and frozen post pubertal human ovarian tissue biopsies. University College London.

Gougeon A. Dynamics of follicular growth in the human: a model from preliminary results. *Hum Reprod*. 1986 Feb;1(2):81–7.

Haque Z, Haque A, Quasem MA. Morphologic and morphometric analysis of the ovary of black bengal goat (*Capra hircus*), *Int. J. Morphol.* 2016;34(1):13-16.

Herraiz S, Monzo S, Gomez-Gimenez B, Pellicer A, Díaz-García C. Optimizing ovarian tissue quality before cryopreservation: comparing outcomes of three decortication methods on stromal and follicular viability. *Fertil Steril.* 2020;113:609–17.

Isachenko V, Mallmann P, Petrunkina AM, Rahimi G, Nawroth F, Hancke K, et al. Comparison of in vitro- and chorioallantoic membrane (CAM) -culture systems for cryopreserved medulla- contained human ovarian tissue. *PloS One.* 2012;7(3):1–9.

Isachenko V, Orth I, Isachenko E, Mallmann P, Peters D, Schmidt T, et al. Viability of human ovarian tissue confirmed 5 years after freezing with spontaneous ice-formation by autografting and chorio-allantoic membrane culture. *Cryobiology.* 2013;66(3):233–8.

Jensen AK, Macklon KT, Fedder J, Ernst E, Humaidan P, Andersen CY. 86 successful births and 9 ongoing pregnancies worldwide in women transplanted with frozen-thawed ovarian tissue : focus on birth and perinatal outcome in 40 of these children. *Journal of Assisted Reproduction and Genetics.* 2017 Mar;34(3):325-336.

Kaczmarek MAM, Schams, DZieci mAJ. Role of vascular endothelial growth factor in ovarian physiology - an overview. *Reproductive biology.* 2005;5:111–36

Kalich-Philosoph L, Roness H, Carmely A, Fishel-Bartal M, Ligumsky H, Paglin S, et al. Cyclophosphamide triggers follicle activation and burn-out; AS101 prevents follicle loss and preserves fertility. *Sci Transl Med.* 2013 May 15;5(185):185ra62.

Kawamura K, Cheng Y, Suzuki N, Deguchi M, Sato Y, Takae S, et al. Hippo signaling disruption and Akt stimulation of ovarian follicles for infertility treatment. *Proc Natl Acad Sci USA.* 2013 Oct 22;110(43):17474–9.

Kim SS, Soules MR, Battaglia DE. Follicular development, ovulation, and corpus luteum formation in cryopreserved human ovarian tissue after xenotransplantation. *Fertil Steril.* 2002 Jul 7;78(1):77–82.

Li R, Albertini DF. The road to maturation: somatic cell interaction and self-organization of the mammalian oocyte. *Nat Rev Mol Cell Biol.* 2013 Mar;14(3):141–52.

Liu K, Rajareddy S, Liu L, Jagarlamudi K, Boman K, Selstam G, et al. Control of mammalian oocyte growth and early follicular development by the oocyte PI3 kinase pathway: new roles for an old timer. *Dev Biol.* 2006 Nov 1;299(1):1–11.

Manavella DD, Cacciottola L, Desmet CM, Jordan BF, Donnez J, Amorim CA, et al. Adipose tissue-derived stem cells in a fibrin implant enhance neovascularization in a peritoneal grafting site: a potential way to improve ovarian tissue transplantation. *Hum Reprod.* 2018;33: 270–9.

Martelli A, Russo V, Mauro A, Di Giacinto O, Nardinocchi D, Mattioli M, et al. Insights into ovarian follicle angiogenesis: morphological and chronological vascular remodeling from primordial to ovulating follicles. *SM Vasc Med.* 2017;2(1):1009.

Martinez-Madrid B, Donnez J, Van Eyck AS, Veiga-Lopez A, Dolmans MM, Van Langendonck A. Chick embryo chorioallantoic membrane (CAM) model: a useful tool

to study short-term transplantation of cryopreserved human ovarian tissue. *Fertil Steril*. 2009 Jan 1;91(1):285-92.

McLaughlin M, Kinnell HL, Anderson R a, Telfer EE. Inhibition of phosphatase and tensin homologue (PTEN) in human ovary in vitro results in increased activation of primordial follicles but compromises development of growing follicles. *Mol Hum Reprod*. 2014 Aug;20(8):736–44.

Meirow D, Biederman H, Anderson RA, Wallace WHB. Toxicity of chemotherapy and radiation on female reproduction. *Clin Obstet Gynecol*. 2010;53(4):727–39.

Morgan S, Anderson RA, Gourley C, Wallace WH, Spears N. How do chemotherapeutic agents damage the ovary? *Hum Reprod Update*. 2012 Jan 1;18(5):525–35.

Morgan S, Lopes F, Gourley C, Anderson R a, Spears N. Cisplatin and doxorubicin induce distinct mechanisms of ovarian follicle loss; imatinib provides selective protection only against cisplatin. *PLoS One*. 2013 Jan;8(7):e70117.

Myers M, Britt KL, Wreford NGM, Ebling FJP, Kerr JB. Methods for quantifying follicular numbers within the mouse ovary. *Reproduction*. 2004 May;127(5):569–80.

Nelson SM, Telfer EE, Anderson RA. The ageing ovary and uterus : new biological insights. *Hum Reprod Update*. 2013;19(1):67–83.

Nisolle M, Brichant G, Henry L. Optimizing the outcomes of ovarian tissue transplantation. *Fertil Steril*. 2020 Mar;113(3):547-548.

Nisolle M, Casanas-Roux F, Qu J, Motta P, Donnez J. Histologic and ultrastructural evaluation of fresh and frozen-thawed human ovarian xenografts in nude mice. *Fertil Steril*. 2000 Jul;74(1):122–29.

Novella-Maestre E, Herraiz S, Rodríguez-Iglesias B, Díaz-García C, Pellicer A. Short-term PTEN inhibition improves in vitro activation of primordial follicles, preserves follicular viability, and restores amh levels in cryopreserved ovarian tissue from cancer patients. *PLoS One*. 2015;10(5):e0127786.

Reddy P, Adhikari D, Zheng W, Liang S, Hämäläinen T, Tohonen V, et al. PDK1 signaling in oocytes controls reproductive aging and lifespan by manipulating the survival of primordial follicles. *Hum Mol Genet*. 2009 Aug 1;18(15):2813–24.

Reddy P, Liu L, Adhikari D, Jagarlamudi K, Rajareddy S, Shen Y, et al. Oocyte-specific deletion of Pten causes premature activation of the primordial follicle pool. *Science*. 2008 Feb 1;319(5863):611–3.

Reddy P, Zheng W, Liu K. Mechanisms maintaining the dormancy and survival of mammalian primordial follicles. *Trends Endocrinol Metab*. 2010 Feb;21(2):96–103.

Ribatti D, Ranieri G, Annese T, Nico B. Aquaporins in cancer. *biochimica et biophysica acta (bba)-general subjects*. *Biochim Biophys Acta*. 2014 May 1;1840(5):1550-3.

Rosendahl M, Andersen CY, la Cour Freiesleben N, Juul A, Løssl K, Andersen AN. Dynamics and mechanisms of chemotherapy-induced ovarian follicular depletion in women of fertile age. *Fertil Steril*. 2010 Jun;94(1):156–66

Schmidt KL, Kryger-Baggesen N, Byskov AG, Andersen CY. Antimullerian hormone initiates growth of human primordial follicles in vitro. *Mol Cell Endocrinol*. 2005;234:87–93.

Siegel R, Naishadham D, Jemal A. Cancer statistics, 2013. *CA Cancer J Clin*. 2013;63(1):11–30.

Silber S. Unifying theory of adult resting follicle recruitment and fetal oocyte arrest. *Reprod Biomed Online*. 2015;31(4):472–5.

Soleimani R, Heytens E, Darzynkiewicz Z, Oktay K. Mechanisms of chemotherapy-induced human ovarian aging: double strand DNA breaks and microvascular compromise. *Aging (Albany NY)*. 2011 Aug;3(8):782.

Suzuki N, Yoshioka N, Takae S, Sugishita Y, Tamura M, Hashimoto S, et al. Successful fertility preservation following ovarian tissue vitrification in patients with primary ovarian insufficiency. *Hum Reprod*. 2015a;30(6):608–15.

Suzuki N. Ovarian tissue cryopreservation using vitrification and/or in vitro activated technology. *Hum Reprod*. 2015b;30(11):2461–2.

Tandel M. Histology of blood vessel. *Health and Medicine.net*. 2019.

Terren C, Munaut C. Molecular basis associated with the control of primordial follicle activation during transplantation of cryopreserved ovarian tissue. *Reproductive Sciences*. 2021;28(5):1257–1266.

Van Eyck AS, Bouzin C, Feron O, Romeu L, Van Langendonck A, Donnez J, et al. Both host and graft vessels contribute to revascularization of xenografted human ovarian tissue in a murine model. *Fertil Steril*. 2010 Mar 15;93(5):1676–85.

Vatanparast MA, Khalili N, Yari M, Omid M, Mohsenzadeh. Evaluation of sheep ovarian tissue cryopreservation with slow freezing or vitrification after chick embryo chorioallantoic membrane transplantation. *Cryobiology*. 2018 Apr;81:178–184.

Vilela JMV, Leonel ECR, D'Oliveira L, Paiva REG, Miranda-Vilela AL, Amorim CA, et al. Culture of domestic cat ovarian tissue in vitro and in the chick embryo chorioallantoic membrane. *Theriogenology*. 2016 Oct 15;86(7):1774–81.

Wallace WHB, Thomson AB, Saran F, Kelsey TW. Predicting age of ovarian failure after radiation to a field that includes the ovaries. *Int J Radiat Oncol Biol Phys*. 2005 Jul 1;62(3):738–44.

Widad S, Nurdianti DS, Ayuandari S, Hamurajib KC, Rahmana MDR, Alma NA, et al. Primordial follicle survival of goat ovarian tissue after vitrification and transplantation on chorioallantoic membrane. *Middle East Fertility Society Journal*. 2020;25(34).

Winkler-Crepaz K, Ayuandari S, Ziehr SC, Hofer S, Wildt L. Fertility preservation in cancer survivors. *Minerva Endocrinol*. 2015;40(2):105–18.

Wiweko B, Andriyana H, Aulia A. Ovarian tissue vitrification as a method for ovarian preservation in women with cancer: an analysis of granulosa cell apoptosis immunohistochemical (IHC) staining of bax and BCL - 2 protein in fresh and vitrified human ovarian tissue. *Indones J Obstet Gynecol*. 2003;4(2):88–92.

Wiweko B, Maidarti M, Mansyur E, Yuningsih T, Ahmad A, Boediono A, et al. Ovarian tissue vitrification as a method for fertility preservation : A study of follicle number and morphology after vitrification. IVF Life. 2014;1(3):148–52.

Yancopoulos GD, Davis S, Gale NW, Rudge JS, Wiegand SJ, Holash J. Vascular-specific growth factors and blood vessel formation. Nature. 2000;407:242–8.