

## REFERENCES

- About stages and grades | Ovarian cancer | Cancer Research UK. (2021). <https://www.cancerresearchuk.org/about-cancer/ovarian-cancer/stages-grades/about-stages-and-grades>
- Adami, H.-O., Lambe, M., Persson, I., Ekbom, A., Adami, H. O., Hsieh, C. C., Trichopoulos, D., Ekbom, A., Lambe, M., Leon, D., & Janson, P. O. (1994). Parity, age at first childbirth, and risk of ovarian cancer. *The Lancet*, 344(8932). [https://doi.org/10.1016/S0140-6736\(94\)90749-8](https://doi.org/10.1016/S0140-6736(94)90749-8)
- Adhikari, L., & Hassell, L. A. (2021). Pathology Outlines - WHO classification. <https://www.pathologyoutlines.com/topic/ovarytumorwhoclassif.html>
- Agarwal, R., & Kaye, S. B. (2005). Prognostic factors in ovarian cancer: how close are we to a complete picture? *Annals of Oncology*, 16(1). <https://doi.org/10.1093/annonc/mdi104>
- Alberts, B., Johnson, A., & Lewis, J. (2002). Blood Vessels and Endothelial Cells - Molecular Biology of the Cell - NCBI Bookshelf. <https://www.ncbi.nlm.nih.gov/books/NBK26848/>
- Aleskandarany, M. A., Sonbul, S. N., Mukherjee, A., & Rakha, E. A. (2015b). Molecular Mechanisms Underlying Lymphovascular Invasion in Invasive Breast Cancer. *Pathobiology*, 82(3-4), 113-123. <https://doi.org/10.1159/000433583>
- Alexander-Sefre, F. (2003). Detection of tumour lymphovascular space invasion using dual cytokeratin and CD31 immunohistochemistry. *Journal of Clinical Pathology*, 56(10). <https://doi.org/10.1136/jcp.56.10.786>
- Andrews, L., & Mutch, D. G. (2017). Hereditary Ovarian Cancer and Risk Reduction. *Best Practice & Research Clinical Obstetrics & Gynaecology*, 41. <https://doi.org/10.1016/j.bpobgyn.2016.10.017>
- Antoniou, A. C., Gayther, S. A., Stratton, J. F., Ponder, B. A. J., & Easton, D. F. (2000). Risk models for familial ovarian and breast cancer. *Genetic Epidemiology*, 18(2). [https://doi.org/10.1002/\(SICI\)1098-2272\(200002\)18:2<173::AID-GEPI6>3.0.CO;2-R](https://doi.org/10.1002/(SICI)1098-2272(200002)18:2<173::AID-GEPI6>3.0.CO;2-R)
- Arnaout-Alkarain, A., Kahn, H., Narod, S., Sun, P. and Marks, A., 2007. Significance of lymph vessel invasion identified by the endothelial lymphatic marker D2-40 in node negative breast cancer. *Modern Pathology*, 20(2), pp.183-191.
- Arora, N., Talhouk, A., McAlpine, J. N., Law, M. R., & Hanley, G. E. (2018). Long-term mortality among women with epithelial ovarian cancer: a population-based study in British Columbia, Canada. *BMC Cancer*, 18(1). <https://doi.org/10.1186/s12885-018-4970-9>
- Aziz, M. F. (2009). Gynecological cancer in Indonesia. *Journal of Gynecologic Oncology*, 20(1). <https://doi.org/10.3802/jgo.2009.20.1.8>
- Baba, A., & Cătoi, C. (2007). TUMOR CELL MORPHOLOGY - Comparative Oncology - NCBI Bookshelf. <https://www.ncbi.nlm.nih.gov/books/NBK9553/>
- Baldwin, L. A., Huang, B., Miller, R. W., Tucker, T., Goodrich, S. T., Podzielinski, I., DeSimone, C. P., Ueland, F. R., van Nagell, J. R., & Seamon, L. G. (2012). Ten-Year Relative Survival for Epithelial Ovarian Cancer. *Obstetrics & Gynecology*, 120(3). <https://doi.org/10.1097/AOG.0b013e318264f794>
- Berek, J., & Bast, R. C. Jr. (2016). Epithelial Ovarian Cancer - Holland-Frei Cancer Medicine - NCBI Bookshelf. <https://www.ncbi.nlm.nih.gov/books/NBK12433/>
- Betts, J., Young, K., Wise, J., Johnson, E., Poe, B., Kruse, D., Korol, O., Johnson, J., Womble, M. and DeSaix, P., (2022). Structure and Function of Blood Vessels.

<https://opentextbc.ca/anatomyandphysiologyopenstax/chapter/structure-and-function-of-blood-vessels/>

- Bosse, T., Peters, E. E. M., Creutzberg, C. L., Jürgenliemk-Schulz, I. M., Jobsen, J. J., Mens, J. W. M., Lutgens, L. C. H. W., van der Steen-Banasik, E. M., Smit, V. T. H. B. M., & Nout, R. A. (2015). Substantial lymph-vascular space invasion (LVSI) is a significant risk factor for recurrence in endometrial cancer – A pooled analysis of PORTEC 1 and 2 trials. *European Journal of Cancer*, 51(13). <https://doi.org/10.1016/j.ejca.2015.05.015>
- Breast Cancer Linkage Consortium, T. (1999). Cancer Risks in BRCA2 Mutation Carriers. *JNCI Journal of the National Cancer Institute*, 91(15). <https://doi.org/10.1093/jnci/91.15.1310>
- Brett M., R., Jennifer B., P., Thomas A., S., Brett M., R., Jennifer B., P., & Thomas A., S. (2017). Epidemiology of ovarian cancer: a review. *Cancer Biology & Medicine*, 14(1). <https://doi.org/10.20892/j.issn.2095-3941.2016.0084>
- Brewster, D. H. (2001). Relation between socioeconomic status and tumour stage in patients with breast, colorectal, ovarian, and lung cancer: results from four national, population based studies. *BMJ*, 322(7290). <https://doi.org/10.1136/bmj.322.7290.830>
- Brinton, L. A., Lamb, E. J., Moghissi, K. S., Scoccia, B., Althuis, M. D., Mabie, J. E., & Westhoff, C. L. (2004). Ovarian Cancer Risk After the Use of Ovulation-Stimulating Drugs. *Obstetrics & Gynecology*, 103(6). <https://doi.org/10.1097/01.AOG.0000128139.92313.74>
- Brown, H. M., & Russell, D. L. (2014). Blood and lymphatic vasculature in the ovary: Development, function and disease. *Human Reproduction Update*, 20(1), 29–39. <https://doi.org/10.1093/humupd/dmt049>
- Budiana, I.N.G., Angelina, M., & Pemayun, T.G.A., 2019. Ovarian cancer: Pathogenesis and current recommendations for prophylactic surgery. *J. Turkish Ger. Gynecol. Assoc.* 20: 41–46. doi:10.4274/jtgga.galenos.2018.2018.0039
- Bunde, S., Baskota, S., Fine, J. and Khader, S., (2021). Educational Case: High-Grade Serous Carcinoma of the Ovary. *Academic Pathology*, 8, p.23742895211032339.
- Chang, L.C., Huang, C.F., Lai, M.S., Shen, L.J., Wu, F.L. L., & Cheng, W.F. (2018). Prognostic factors in epithelial ovarian cancer: A population-based study. *PLOS ONE*, 13(3). <https://doi.org/10.1371/journal.pone.0194993>
- Chan, J. (2003). Stages III and IV invasive epithelial ovarian carcinoma in younger versus older women: what prognostic factors are important? *Obstetrics & Gynecology*, 102(1). [https://doi.org/10.1016/S0029-7844\(03\)00399-5](https://doi.org/10.1016/S0029-7844(03)00399-5)
- Chen, M., Jin, Y., Bi, Y., Li, Y., Shan, Y., & Pan, L. (2015). Prognostic Significance of Lymphovascular Space Invasion in Epithelial Ovarian Cancer. *Journal of Cancer*, 6(5). <https://doi.org/10.7150/jca.11242>
- Choi, J.-H., Wong, A. S. T., Huang, H.-F., & Leung, P. C. K. (2007). Gonadotropins and Ovarian Cancer. *Endocrine Reviews*, 28(4). <https://doi.org/10.1210/er.2006-0036>
- Cortez, A. J., Tudrej, P., Kujawa, K. A., & Lisowska, K. M. (2018). Advances in ovarian cancer therapy. *Cancer Chemotherapy and Pharmacology*, 81(1). <https://doi.org/10.1007/s00280-017-3501-8>
- Daniilidis, A., & Karagiannis, V. (2007). Epithelial ovarian cancer. Risk factors, screening and the role of prophylactic oophorectomy. *Hippokratia*, 11(2).
- Dekker, T. J. A., van de Velde, C. J. H., van Bruggen, D., Mesker, W. E., van der Hoeven, J. J. M., Kroep, J. R., Tollenaar, R. A. E. M., & Smit, V. T. H. B. M. (2013). Quantitative assessment of lymph vascular space invasion (LVSI) provides important prognostic

- information in node-negative breast cancer. *Annals of Oncology*, 24(12), 2994–2998. <https://doi.org/10.1093/annonc/mdt400>
- Delgado-Ortega, L., González-Domínguez, A., Borrás, J. M., Oliva-Moreno, J., González-Haba, E., Menjón, S., Pérez, P., Vicente, D., Cordero, L., Jiménez, M., Simón, S., Hidalgo-Vega, Á., & Moya-Alarcón, C. (2019). The economic burden of disease of epithelial ovarian cancer in Spain: the OvarCost study. *The European Journal of Health Economics*, 20(1). <https://doi.org/10.1007/s10198-018-0986-y>
- Desai, A. (2014). Epithelial ovarian cancer: An overview. *World Journal of Translational Medicine*, 3(1). <https://doi.org/10.5528/wjtm.v3.i1.1>
- Doubeni, C. A., Doubeni, A. R., & Myers, A. E. (2016). Diagnosis and Management of Ovarian Cancer. *American Family Physician*, 93(11), 937–944. [www.aafp.org/afp](http://www.aafp.org/afp)
- Doyle, E. M., Foley, M., Kelehan, P., & Mooney, E. E. (2007). Histological grading of epithelial ovarian carcinomas. *Journal of Obstetrics and Gynaecology*, 27(1). <https://doi.org/10.1080/01443610601056434>
- Elattar, A., Bryant, A., Winter-Roach, B. A., Hatem, M., & Naik, R. (2011). Optimal primary surgical treatment for advanced epithelial ovarian cancer. *Cochrane Database of Systematic Reviews*. <https://doi.org/10.1002/14651858.CD007565.pub2>
- Elsherif, S., Javadi, S., Viswanathan, C., Faria, S., & Bhosale, P. (2019). Low-grade epithelial ovarian cancer: what a radiologist should know. *The British Journal of Radiology*, 92(1095). <https://doi.org/10.1259/bjr.20180571>
- Epithelial ovarian cancer | Cancer Research UK. (2021). <https://www.cancerresearchuk.org/about-cancer/ovarian-cancer/types/epithelial-ovarian-cancers/epithelial>
- Ezzati, M., Abdullah, A., Shariftabrizi, A., Hou, J., Kopf, M., Stedman, J. K., Samuelson, R., & Shahabi, S. (2014). Recent Advancements in Prognostic Factors of Epithelial Ovarian Carcinoma. *International Scholarly Research Notices*, 2014. <https://doi.org/10.1155/2014/953509>
- Falconer, H., Yin, L., Gronberg, H., & Altman, D. (2015). Ovarian Cancer Risk After Salpingectomy: A Nationwide Population-Based Study. *JNCI Journal of the National Cancer Institute*, 107(2). <https://doi.org/10.1093/jnci/dju410>
- Fathalla, M. F. (1971). Incessant Ovulation—A Factor in Ovarian Neoplasia? *The Lancet*, 298(7716). [https://doi.org/10.1016/S0140-6736\(71\)92335-X](https://doi.org/10.1016/S0140-6736(71)92335-X)
- Félétou, M. (2011). Multiple Functions of the Endothelial Cells. <https://www.ncbi.nlm.nih.gov/books/NBK57148/>
- Ferlay, J., Colombet, M., Soerjomataram, I., Mathers, C., Parkin, D. M., Piñeros, M., Znaor, A., & Bray, F. (2019). Estimating the global cancer incidence and mortality in 2018: GLOBOCAN sources and methods. *International Journal of Cancer*, 144(8), 1941–1953. <https://doi.org/10.1002/IJC.31937>
- Frumovitz, M., & Sood, A. K. (2007). Vascular endothelial growth factor (VEGF) pathway as a therapeutic target in gynecologic malignancies. *Gynecologic Oncology*, 104(3). <https://doi.org/10.1016/j.ygyno.2006.10.062>
- Gates, M. A., Rosner, B. A., Hecht, J. L., & Tworoger, S. S. (2010). Risk Factors for Epithelial Ovarian Cancer by Histologic Subtype. *American Journal of Epidemiology*, 171(1). <https://doi.org/10.1093/aje/kwp314>
- Gonzalez, H., Hagerling, C., & Werb, Z. (2018). Roles of the immune system in cancer: from tumor initiation to metastatic progression. *Genes & Development*, 32(19–20). <https://doi.org/10.1101/gad.314617.118>

- Govindarajan, M., Wohlmuth, C., Waas, M., Bernardini, M. Q., & Kislinger, T. (2020). High-throughput approaches for precision medicine in high-grade serous ovarian cancer. *Journal of Hematology & Oncology*, 13(1). <https://doi.org/10.1186/s13045-020-00971-6>
- Grading ovarian cancer | Canadian Cancer Society. (n.d.). Retrieved December 6, 2021, from <https://cancer.ca/en/cancer-information/cancer-types/ovarian/grading>
- Hankinson, S. E., Colditz, G. A., Hunter, D. J., Willett, W. C., Stampfer, M. J., Rosner, B., Hennekens, C. H., & Speizer, F. E. (1995). A prospective study of reproductive factors and risk of epithelial ovarian cancer. *Cancer*, 76(2). [https://doi.org/10.1002/1097-0142\(19950715\)76:2<284::AID-CNCR2820760219>3.0.CO;2-5](https://doi.org/10.1002/1097-0142(19950715)76:2<284::AID-CNCR2820760219>3.0.CO;2-5)
- Hisamatsu, T., Mabuchi, S., Sasano, T., Kuroda, H., Takahashi, R., Matsumoto, Y., Kawano, M., Kozasa, K., Takahashi, K., Sawada, K., Matsuo, K., Tamada, Y., Morii, E., Kitadai, Y., & Kimura, T. (2015). The significance of lymphatic space invasion and its association with vascular endothelial growth factor-C expression in ovarian cancer. *Clinical & Experimental Metastasis*, 32(8). <https://doi.org/10.1007/s10585-015-9751-0>
- Hsieh, S.-F., Lau, H.-Y., Wu, H.-H., Hsu, H.-C., Twu, N.-F., & Cheng, W.-F. (2019). Prognostic Factors of Early Stage Epithelial Ovarian Carcinoma. *International Journal of Environmental Research and Public Health*, 16(4). <https://doi.org/10.3390/ijerph16040637>
- Huang, Z., Zheng, Y., Wen, W., Wu, C., Bao, P., Wang, C., Zhong, W., Gao, Y.-T., Jin, F., Xiang, Y.-B., Shu, X.-O., & Beeghly-Fadiel, A. (2016). Incidence and mortality of gynaecological cancers: Secular trends in urban Shanghai, China over 40 years. *European Journal of Cancer*, 63. <https://doi.org/10.1016/j.ejca.2016.04.016>
- Ishioka, S., Sagae, S., Terasawa, K., Sugimura, M., Nishioka, Y., Tsukada, K., & Kudo, R. (2003). Comparison of the usefulness between a new universal grading system for epithelial ovarian cancer and the FIGO grading system. *Gynecologic Oncology*, 89(3). [https://doi.org/10.1016/S0090-8258\(03\)00133-1](https://doi.org/10.1016/S0090-8258(03)00133-1)
- Jordan, S., Green, A., Whiteman, D., & Webb, P. (2007). Risk factors for benign, borderline and invasive mucinous ovarian tumors: Epidemiological evidence of a neoplastic continuum? *Gynecologic Oncology*, 107(2). <https://doi.org/10.1016/j.ygyno.2007.06.006>
- Kaku, T., Ogawa, S., Kawano, Y., Ohishi, Y., Kobayashi, H., Hirakawa, T., & Nakano, H. (2003). Histological classification of ovarian cancer. *Medical Electron Microscopy*, 36(1). <https://doi.org/10.1007/s007950300002>
- Kariri, Y. A., Aleskandarany, M. A., Joseph, C., Kurozumi, S., Mohammed, O. J., Toss, M. S., Green, A. R., & Rakha, E. A. (2020). Molecular Complexity of Lymphovascular Invasion: The Role of Cell Migration in Breast Cancer as a Prototype. *Pathobiology*, 87(4). <https://doi.org/10.1159/000508337>
- Karst, A. M., & Drapkin, R. (2010). Ovarian Cancer Pathogenesis: A Model in Evolution. *Journal of Oncology*, 2010. <https://doi.org/10.1155/2010/932371>
- Kim, S. J., Rosen, B., Fan, I., Ivanova, A., McLaughlin, J. R., Risch, H., Narod, S. A., & Kotsopoulos, J. (2017). Epidemiologic factors that predict long-term survival following a diagnosis of epithelial ovarian cancer. *British Journal of Cancer*, 116(7). <https://doi.org/10.1038/bjc.2017.35>
- Kleppe, M., Kraima, A. C., Kruitwagen, R. F. P. M., van Gorp, T., Smit, N. N., van Munsteren, J. C., & DeRuiter, M. C. (2015). Understanding Lymphatic Drainage Pathways of the Ovaries to Predict Sites for Sentinel Nodes in Ovarian Cancer. *International Journal of Gynecological Cancer*, 25(8). <https://doi.org/10.1097/IGC.0000000000000514>



- Kotsopoulos, J., Gronwald, J., Karlan, B., Rosen, B., Huzarski, T., Moller, P., Lynch, H. T., Singer, C. F., Senter, L., Neuhausen, S. L., Tung, N., Eisen, A., Foulkes, W. D., Ainsworth, P., Sun, P., Lubinski, J., & Narod, S. A. (2018). Age-specific ovarian cancer risks among women with a BRCA1 or BRCA2 mutation. *Gynecologic Oncology*, 150(1). <https://doi.org/10.1016/j.ygyno.2018.05.011>
- Kukko, H. M., Koljonen, V. S. K., Tukiainen, E. J., Haglund, C. H., & Böhling, T. O. (2010). Vascular invasion is an early event in pathogenesis of Merkel cell carcinoma. *Modern Pathology*, 23(8), 1151–1156. <https://doi.org/10.1038/modpathol.2010.100>
- Kurman, R. J., & Shih, I.-M. (2010). The Origin and Pathogenesis of Epithelial Ovarian Cancer: A Proposed Unifying Theory. *American Journal of Surgical Pathology*, 34(3). <https://doi.org/10.1097/PAS.0b013e3181cf3d79>
- Kvåle, G., Heuch, I., Nilssen, S., & Beral, V. (1988). Reproductive factors and risk of ovarian cancer: A prospective study. *International Journal of Cancer*, 42(2). <https://doi.org/10.1002/ijc.2910420217>
- Kwon, M., Kang, H., Soh, J., Lim, H., Kim, J., Park, C., Park, H. and Nam, E., 2016. Lymphovascular invasion in more than one-quarter of small rectal neuroendocrine tumors. *World Journal of Gastroenterology*, 22(42), p.9400.
- Lengyel, E. (2010). Ovarian Cancer Development and Metastasis. *The American Journal of Pathology*, 177(3). <https://doi.org/10.2353/ajpath.2010.100105>
- Leppink, J., Winston, K. and O'Sullivan, P., (2016). Statistical significance does not imply a real effect. *Perspectives on Medical Education*, 5(2), pp.122-124.
- Li, J., Li, S., Chen, R., & Lu, X. (2017). Increased risk of poor survival in ovarian cancer patients with high expression of SNAI2 and lymphovascular space invasion. *Oncotarget*, 8(6). <https://doi.org/10.18632/oncotarget.14192>
- Lu, K. H., & Daniels, M. (2013). Endometrial and ovarian cancer in women with Lynch syndrome: update in screening and prevention. *Familial Cancer*, 12(2). <https://doi.org/10.1007/s10689-013-9664-5>
- Madsen, C., Baandrup, L., Dehlendorff, C., & Kjaer, S. K. (2015). Tubal ligation and salpingectomy and the risk of epithelial ovarian cancer and borderline ovarian tumors: a nationwide case-control study. *Acta Obstetrica et Gynecologica Scandinavica*, 94(1). <https://doi.org/10.1111/aogs.12516>
- Malpica, A., Deavers, M. T., Lu, K., Bodurka, D. C., Atkinson, E. N., Gershenson, D. M., & Silva, E. G. (2004). Grading Ovarian Serous Carcinoma Using a Two-Tier System. *The American Journal of Surgical Pathology*, 28(4). <https://doi.org/10.1097/00000478-200404000-00009>
- Marko, J., Marko, K. I., Pachigolla, S. L., Crothers, B. A., Mattu, R., & Wolfman, D. J. (2019). Mucinous Neoplasms of the Ovary: Radiologic-Pathologic Correlation. *RadioGraphics*, 39(4). <https://doi.org/10.1148/rg.2019180221>
- Matsuno, R. K., Sherman, M. E., Visvanathan, K., Goodman, M. T., Hernandez, B. Y., Lynch, C. F., Ioffe, O. B., Horio, D., Platz, C., Altekruze, S. F., Pfeiffer, R. M., & Anderson, W. F. (2013). Agreement for tumor grade of ovarian carcinoma: analysis of archival tissues from the surveillance, epidemiology, and end results residual tissue repository. *Cancer Causes & Control*, 24(4). <https://doi.org/10.1007/s10552-013-0157-5>
- Matsuo, K., Sheridan, T. B., Mabuchi, S., Yoshino, K., Hasegawa, K., Studeman, K. D., Im, D. D., Rosenshein, N. B., Roman, L. D., & Sood, A. K. (2014). Estrogen receptor expression and increased risk of lymphovascular space invasion in high-grade serous ovarian carcinoma. *Gynecologic Oncology*, 133(3). <https://doi.org/10.1016/j.ygyno.2014.03.563>

- Matsuo, K., Sheridan, T. B., Yoshino, K., Miyake, T., Hew, K. E., Im, D. D., Rosenshein, N. B., Mabuchi, S., Enomoto, T., Kimura, T., Sood, A. K., & Roman, L. D. (2012). Significance of lymphovascular space invasion in epithelial ovarian cancer. *Cancer Medicine*, 1(2). <https://doi.org/10.1002/cam4.31>
- Matsuo, K., Wong, K.-K., Fotopoulou, C., Blake, E. A., Robertson, S. E., Pejovic, T., Frimer, M., Pardeshi, V., Hu, W., Choi, J.-S., Sun, C. C., Richmond, A. M., Marcus, J. Z., Hilliard, M. A. M., Mostofizadeh, S., Mhawech-Fauceglia, P., Abdulfatah, E., Post, M. D., Saglam, O., ... Gershenson, D. M. (2017). Impact of lympho-vascular space invasion on tumor characteristics and survival outcome of women with low-grade serous ovarian carcinoma. *Journal of Surgical Oncology*, 117(2). <https://doi.org/10.1002/jso.24801>
- Matsuo, K., Yoshino, K., Hiramatsu, K., Banzai, C., Hasegawa, K., Yasuda, M., Nishimura, M., Sheridan, T. B., Ikeda, Y., Shiki, Y., Mabuchi, S., Enomoto, T., Kimura, T., Fujiwara, K., Roman, L. D., & Sood, A. K. (2014). Effect of Lymphovascular Space Invasion on Survival of Stage I Epithelial Ovarian Cancer. *Obstetrics & Gynecology*, 123(5). <https://doi.org/10.1097/AOG.0000000000000240>
- Matz, M., Coleman, M. P., Sant, M., Chirlaque, M. D., Visser, O., Gore, M., Allemani, C., Bouzbid, S., Hamdi-Chérif, M., Zaidi, Z., Bah, E., Swaminathan, R., Nortje, S. H., Stefan, D. C., el Mistiri, M. M., Bayo, S., Malle, B., Manraj, S. S., Sewpaul-Sungkur, R., ... Lewis, C. (2017). The histology of ovarian cancer: worldwide distribution and implications for international survival comparisons (CONCORD-2). *Gynecologic Oncology*, 144(2). <https://doi.org/10.1016/j.ygyno.2016.10.019>
- Mitra, A. K. (2016). Ovarian Cancer Metastasis: A Unique Mechanism of Dissemination. In *Tumor Metastasis*. InTech. <https://doi.org/10.5772/64700>
- Moatasim, A., Hameed, Z., & Ahmad, I. (2021). Assessment of lymphovascular invasion in early stage endometrial carcinoma -a retrospective study. *Surgical and Experimental Pathology*, 4(1). <https://doi.org/10.1186/s42047-021-00091-6>
- Mohammed, Z., McMillan, D., Edwards, J., Mallon, E., Doughty, J., Orange, C. and Going, J., (2013). The relationship between lymphovascular invasion and angiogenesis, hormone receptors, cell proliferation and survival in patients with primary operable invasive ductal breast cancer. *BMC Clinical Pathology*, 13(1).
- Mok, S. C., Kwong, J., Welch, W. R., Samimi, G., Ozbun, L., Bonome, T., Birrer, M. J., Berkowitz, R. S., & Wong, K.-K. (2007). Etiology and Pathogenesis of Epithelial Ovarian Cancer. *Disease Markers*, 23(5–6). <https://doi.org/10.1155/2007/474320>
- Momenimovahed, Z., Tiznobaik, A., Taheri, S., & Salehiniya, H. (2019). Ovarian cancer in the world: epidemiology and risk factors. *International Journal of Women's Health*, Volume 11. <https://doi.org/10.2147/IJWH.S197604>
- Moorman, P. G., Schildkraut, J. M., Calingaert, B., Halabi, S., Vine, M. F., & Berchuck, A. (2002). Ovulation and ovarian cancer: a comparison of two methods for calculating lifetime ovulatory cycles. *Cancer Causes and Control*, 13(9). <https://doi.org/10.1023/A:1020678100977>
- Muhabat, Q., Waheed, F., & W., & Jabeen, N. (2016). Clinical Presentation of Ovarian Tumors. *Open Journal of Obstetrics and Gynecology*, 06(04). <https://doi.org/10.4236/ojog.2016.64026>
- Nakamura, K., Banno, K., Yanokura, M., Iida, M., Adachi, M., Masuda, K., Ueki, A., Kobayashi, Y., Nomura, H., Hirasawa, A., Tominaga, E., & Aoki, D. (2014). Features of ovarian cancer

- in Lynch syndrome (Review). *Molecular and Clinical Oncology*, 2(6). <https://doi.org/10.3892/mco.2014.397>
- Novak, C., Horst, E., & Mehta, G. (2018). Review: Mechanotransduction in ovarian cancer: Shearing into the unknown. *APL Bioengineering*, 2(3). <https://doi.org/10.1063/1.5024386>
- Ong, J.-S., Cuellar-Partida, G., Lu, Y., Fasching, P. A., Hein, A., Burghaus, S., Beckmann, M. W., Lambrechts, D., van Nieuwenhuysen, E., Vergote, I., Vanderstichele, A., Anne Doherty, J., Anne Rossing, M., Chang-Claude, J., Eilber, U., Rudolph, A., Wang-Gohrke, S., Goodman, M. T., Bogdanova, N., ... MacGregor, S. (2016). Association of vitamin D levels and risk of ovarian cancer: a Mendelian randomization study. *International Journal of Epidemiology*, 45(5). <https://doi.org/10.1093/ije/dyw207>
- Pan, S. Y., Ugnat, A.-M., Mao, Y., Wen, S. W., & Johnson, K. C. (2004). Association of cigarette smoking with the risk of ovarian cancer. *International Journal of Cancer*, 111(1). <https://doi.org/10.1002/ijc.20242>
- Paoli, P., Giannoni, E., & Chiarugi, P. (2013). Anoikis molecular pathways and its role in cancer progression. *Biochimica et Biophysica Acta (BBA) - Molecular Cell Research*, 1833(12). <https://doi.org/10.1016/j.bbamcr.2013.06.026>
- Patni, R. (2019). Screening for ovarian cancer: An update. *Journal of Mid-Life Health*, 10(1). [https://doi.org/10.4103/jmh.JMH\\_46\\_19](https://doi.org/10.4103/jmh.JMH_46_19)
- Pavone, M. E., & Lyttle, B. (2015). Endometriosis and ovarian cancer: links, risks, and challenges faced. *International Journal of Women's Health*. <https://doi.org/10.2147/IJWH.S66824>
- Pearl, M., Tornos, C., & Chen, W. (2019, September 18). Correlation of lymphovascular space invasion and invasive circulating tumor cells in patients with epithelial ovarian cancer. E-Poster Viewings. <https://doi.org/10.1136/ijgc-2019-IGCS.318>
- Peters, E. E. M., Bartosch, C., McCluggage, W. G., Genestie, C., Lax, S. F., Nout, R., Oosting, J., Singh, N., Smit, H. C. S. H., Smit, V. T. H. B. M., van de Vijver, K. K., & Bosse, T. (2019). Reproducibility of lymphovascular space invasion (LVSI) assessment in endometrial cancer. *Histopathology*, 75(1). <https://doi.org/10.1111/his.13871>
- Polterauer, S., Vergote, I., Concin, N., Braicu, I., Chakerov, R., Mahner, S., Woelber, L., Cadron, I., van Gorp, T., Zeillinger, R., Castillo-Tong, D. C., & Schouli, J. (2012). Prognostic Value of Residual Tumor Size in Patients with Epithelial Ovarian Cancer FIGO Stages IIA–IV: Analysis of the OVCAD Data. *International Journal of Gynecologic Cancer*, 22(3). <https://doi.org/10.1097/IGC.0b013e31823de6ae>
- Poole, E. M., Merritt, M. A., Jordan, S. J., Yang, H. P., Hankinson, S. E., Park, Y., Rosner, B., Webb, P. M., Cramer, D. W., Wentzensen, N., Terry, K. L., & Tworoger, S. S. (2013). Hormonal and Reproductive Risk Factors for Epithelial Ovarian Cancer by Tumor Aggressiveness. *Cancer Epidemiology Biomarkers & Prevention*, 22(3). <https://doi.org/10.1158/1055-9965.EPI-12-1183-T>
- Pradeep, S., Kim, S. W., Wu, S. Y., Nishimura, M., Chaluvally-Raghavan, P., Miyake, T., Pecot, C. V., Kim, S.-J., Choi, H. J., Bischoff, F. Z., Mayer, J. A., Huang, L., Nick, A. M., Hall, C. S., Rodriguez-Aguayo, C., Zand, B., Dalton, H. J., Arumugam, T., Lee, H. J., ... Sood, A. K. (2014). Hematogenous Metastasis of Ovarian Cancer: Rethinking Mode of Spread. *Cancer Cell*, 26(1). <https://doi.org/10.1016/j.ccr.2014.05.002>
- Præstegaard, C., Kjaer, S. K., Nielsen, T. S. S., Jensen, S. M., Webb, P. M., Nagle, C. M., Høgdall, E., Risch, H. A., Rossing, M. A., Doherty, J. A., Wicklund, K. G., Goodman, M. T., Modugno, F., Moysich, K., Ness, R. B., Edwards, R. P., Goode, E. L., Winham, S. J., Fridley,

- B. L., ... Jensen, A. (2016). The association between socioeconomic status and tumour stage at diagnosis of ovarian cancer: A pooled analysis of 18 case-control studies. *Cancer Epidemiology*, 41. <https://doi.org/10.1016/j.canep.2016.01.012>
- Qian, X., Xi, X., & Jin, Y. (2010). The Grading of Lymphovascular Space Invasion in Epithelial Ovarian Carcinoma. *International Journal of Gynecologic Cancer*, 20(5). <https://doi.org/10.1111/IGC.0b013e3181e02fc7>
- Ranganathan, P., Pramesh, C. and Buyse, M., (2015). Common pitfalls in statistical analysis: Clinical versus statistical significance. *Perspectives in Clinical Research*, 6(3), p.169.
- Rauh-Hain, J. A., Krivak, T. C., del Carmen, M. G., & Olawaiye, A. B. (2011). Ovarian cancer screening and early detection in the general population. *Reviews in Obstetrics & Gynecology*, 4(1).
- Reigstad, M. M., Storeng, R., Myklebust, T. Å., Oldereid, N. B., Omland, A. K., Røsbjerg, T. E., Brinton, L. A., Vangen, S., Furu, K., & Larsen, I. K. (2017). Cancer Risk in Women Treated with Fertility Drugs According to Parity Status—A Registry-based Cohort Study. *Cancer Epidemiology Biomarkers & Prevention*, 26(6). <https://doi.org/10.1158/1055-9965.EPI-16-0809>
- Riman, T., Dickman, P. W., Nilsson, S., Correia, N., Nordlinder, H., Magnusson, C. M., & Persson, I. R. (2001). Risk Factors for Epithelial Borderline Ovarian Tumors: Results of a Swedish Case-Control Study. *Gynecologic Oncology*, 83(3). <https://doi.org/10.1006/gyno.2001.6451>
- Risch, H. A., Marrett, L. D., Jain, M., & Howe, G. R. (1996). Differences in Risk Factors for Epithelial Ovarian Cancer by Histologic Type: Results of a Case-Control Study. *American Journal of Epidemiology*, 144(4). <https://doi.org/10.1093/oxfordjournals.aje.a008937>
- Robbins Basic Pathology. (2013).
- Royar, J., Becher, H., & Chang-Claude, J. (2001). Low-dose oral contraceptives: Protective effect on ovarian cancer risk. *International Journal of Cancer*, 95(6). [https://doi.org/10.1002/1097-0215\(20011120\)95:6<370::AID-IJC1065>3.0.CO;2-T](https://doi.org/10.1002/1097-0215(20011120)95:6<370::AID-IJC1065>3.0.CO;2-T)
- Ryu, Y. J., Kang, S. J., Cho, J. S., Yoon, J. H., & Park, M. H. (2018). Lymphovascular invasion can be better than pathologic complete response to predict prognosis in breast cancer treated with neoadjuvant chemotherapy. *Medicine*, 97(30). <https://doi.org/10.1097/MD.00000000000011647>
- Saad, A. F., Hu, W., & Sood, A. K. (2010). Microenvironment and Pathogenesis of Epithelial Ovarian Cancer. *Hormones and Cancer*, 1(6). <https://doi.org/10.1007/s12672-010-0054-2>
- Savant, S., Sriramkumar, S., & O'Hagan, H. (2018). The Role of Inflammation and Inflammatory Mediators in the Development, Progression, Metastasis, and Chemoresistance of Epithelial Ovarian Cancer. *Cancers*, 10(8). <https://doi.org/10.3390/cancers10080251>
- Seidman, J., Horkayne-Szakaly, I., Cosin, J., Ryu, H., Haiba, M., Boice, C. and Yemelyanova, A., (2006). Testing of two binary grading systems for FIGO stage III serous carcinoma of the ovary and peritoneum. *Gynecologic Oncology*, 103(2), pp.703-708.
- Sharma, H., (2021). Statistical significance or clinical significance? A researcher's dilemma for appropriate interpretation of research results. *Saudi Journal of Anaesthesia*, 15(4), p.431.
- Shih, I.-M., & Kurman, R. J. (2004). Ovarian Tumorigenesis. *The American Journal of Pathology*, 164(5). [https://doi.org/10.1016/S0002-9440\(10\)63708-X](https://doi.org/10.1016/S0002-9440(10)63708-X)
- Shimizu, Y., Kamoi, S., Amada, S., Akiyama, F., & Silverberg, S. G. (1998). Toward the development of a universal grading system for ovarian epithelial carcinoma. *Cancer*, 82(5). [https://doi.org/10.1002/\(SICI\)1097-0142\(19980301\)82:5<893::AID-CNCR14>3.0.CO;2-W](https://doi.org/10.1002/(SICI)1097-0142(19980301)82:5<893::AID-CNCR14>3.0.CO;2-W)



- Sieh, W., Salvador, S., McGuire, V., Weber, R. P., Terry, K. L., Rossing, M. A., Risch, H., Wu, A. H., Webb, P. M., Moysich, K., Doherty, J. A., Felberg, A., Miller, D., Jordan, S. J., Goodman, M. T., Lurie, G., Chang-Claude, J., Rudolph, A., Kjær, S. K., ... Whittemore, A. S. (2013). Tubal ligation and risk of ovarian cancer subtypes: a pooled analysis of case-control studies. *International Journal of Epidemiology*, 42(2). <https://doi.org/10.1093/ije/dyt042>
- Sköld, C., Bjørge, T., Ekbom, A., Engeland, A., Gissler, M., Grotmol, T., Madanat-Harjuoja, L., Gulbech Ording, A., Stephansson, O., Trabert, B., Tretli, S., Troisi, R., Sørensen, H. T., & Glimelius, I. (2018). Preterm delivery is associated with an increased risk of epithelial ovarian cancer among parous women. *International Journal of Cancer*, 143(8). <https://doi.org/10.1002/ijc.31581>
- Soegaard, M., Jensen, A., Høgdall, E., Christensen, L., Høgdall, C., Blaakær, J., & Kjaer, S. K. (2007). Different Risk Factor Profiles for Mucinous and Nonmucinous Ovarian Cancer: Results from the Danish MALOVA Study. *Cancer Epidemiology Biomarkers & Prevention*, 16(6). <https://doi.org/10.1158/1055-9965.EPI-07-0089>
- Stages and grades | Target Ovarian Cancer. (2021). <https://targetovariancancer.org.uk/about-ovarian-cancer/what-ovarian-cancer/stages-and-grades>
- Statistics Solutions. 2022. My results were not significant... now what? - Statistics Solutions. [online] Available at: <<https://www.statisticssolutions.com/my-results-were-not-significant-now-what/>>.
- Steber, C., (2022). Why Your Sample Size Is Probably Too Small. [online] Cfrinc.net. Available at: <<https://www.cfrinc.net/cfrblog/why-your-sample-size-is-probably-too-small-cfr-inc>>.
- Storey, D. J., Rush, R., Stewart, M., Rye, T., Al-Nafussi, A., Williams, A. R., Smyth, J. F., & Gabra, H. (2008). Endometrioid epithelial ovarian cancer. *Cancer*, 112(10). <https://doi.org/10.1002/cncr.23438>
- Su, D., Pasalich, M., Lee, A. H., & Binns, C. W. (2013). Ovarian cancer risk is reduced by prolonged lactation: a case-control study in southern China. *The American Journal of Clinical Nutrition*, 97(2). <https://doi.org/10.3945/ajcn.112.044719>
- Surgical Procedures: Surgical Staging for Ovarian (Epithelial), Primary Peritoneal and Fallopian Tube Cancer | OncoLink. (2021). <https://www.oncolink.org/cancers/gynecologic/ovarian-cancer/surgical-procedures-surgical-staging-for-ovarian-epithelial-primary-peritoneal-and-fallopian-tube-cancer>
- Tan, D. S., Agarwal, R., & Kaye, S. B. (2006). Mechanisms of transcoelomic metastasis in ovarian cancer. *The Lancet Oncology*, 7(11). [https://doi.org/10.1016/S1470-2045\(06\)70939-1](https://doi.org/10.1016/S1470-2045(06)70939-1)
- Taylor, A. M., Bordoni, B. (2022). Histology, Blood Vascular System. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK553217/>
- The Biology of Ovarian Cancers - Ovarian Cancers - NCBI Bookshelf. (2016). <https://www.ncbi.nlm.nih.gov/books/NBK367613/>
- Thompson, D. (2002). Cancer Incidence in BRCA1 Mutation Carriers. *Cancer Spectrum Knowledge Environment*, 94(18). <https://doi.org/10.1093/jnci/94.18.1358>
- Tortorella, L., Vizzielli, G., Fusco, D., Cho, W. C., Bernabei, R., Scambia, G., & Colloca, G. (2017). Ovarian Cancer Management in the Oldest Old: Improving Outcomes and Tailoring Treatments. *Aging and Disease*, 8(5). <https://doi.org/10.14336/AD.2017.0607>
- Toss, A., Tomasello, C., Razzaboni, E., Contu, G., Grandi, G., Cagnacci, A., Schilder, R. J., & Cortesi, L. (2015). Hereditary Ovarian Cancer: Not Only BRCA 1 and 2 Genes. *BioMed Research International*, 2015. <https://doi.org/10.1155/2015/341723>

- Vang, R., Shih, I.-M., & Kurman, R. J. (2009). Ovarian Low-grade and High-grade Serous Carcinoma. *Advances in Anatomic Pathology*, 16(5). <https://doi.org/10.1097/PAP.0b013e3181b4fffa>
- Walker, G. R., Schlesselman, J. J., & Ness, R. B. (2002). Family history of cancer, oral contraceptive use, and ovarian cancer risk. *American Journal of Obstetrics and Gynecology*, 186(1). <https://doi.org/10.1067/mob.2002.118657>
- Walsh, T., Casadei, S., Lee, M. K., Pennil, C. C., Nord, A. S., Thornton, A. M., Roeb, W., Agnew, K. J., Stray, S. M., Wickramanayake, A., Norquist, B., Pennington, K. P., Garcia, R. L., King, M.-C., & Swisher, E. M. (2011). Mutations in 12 genes for inherited ovarian, fallopian tube, and peritoneal carcinoma identified by massively parallel sequencing. *Proceedings of the National Academy of Sciences*, 108(44). <https://doi.org/10.1073/pnas.1115052108>
- Weber, S., McCann, C. K., Boruta, D. M., Schorge, J. O., & Growdon, W. B. (2011). Laparoscopic surgical staging of early ovarian cancer. *Reviews in Obstetrics & Gynecology*, 4(3–4).
- Winter-Roach, B. A., Kitchener, H. C., & Dickinson, H. O. (2009). Adjuvant (post-surgery) chemotherapy for early stage epithelial ovarian cancer. In B. A. Winter-Roach (Ed.), *Cochrane Database of Systematic Reviews*. John Wiley & Sons, Ltd. <https://doi.org/10.1002/14651858.CD004706.pub3>
- Winter-Roach, B. A., Kitchener, H. C., & Dickinson, H. O. (2011). Epidemiology. *Cochrane Database of Systematic Reviews*, 3. <https://doi.org/10.1002/14651858.CD004706.PUB3>
- Yan, W., Qiu, S., Ding, Y., Zhang, Q., Si, L., Lv, S., & Liu, L. (2019). Prognostic value of lymphovascular space invasion in patients with early stage cervical cancer in Jilin, China. *Medicine*, 98(40). <https://doi.org/10.1097/MD.00000000000017301>
- Yeung, T.-L., Leung, C. S., Yip, K.-P., Au Yeung, C. L., Wong, S. T. C., & Mok, S. C. (2015). Cellular and molecular processes in ovarian cancer metastasis. A Review in the Theme: Cell and Molecular Processes in Cancer Metastasis. *American Journal of Physiology-Cell Physiology*, 309(7). <https://doi.org/10.1152/ajpcell.00188.2015>
- Yousefi, M., Dehghani, S., Nosrati, R., Ghanei, M., Salmaninejad, A., Rajaie, S., Hasanzadeh, M., & Pasdar, A. (2020). Current insights into the metastasis of epithelial ovarian cancer - hopes and hurdles. *Cellular Oncology*, 43(4). <https://doi.org/10.1007/s13402-020-00513-9>
- Yuan, Y., Jiang, Y.-C., Sun, C.-K., & Chen, Q.-M. (2016). Role of the tumor microenvironment in tumor progression and the clinical applications (Review). *Oncology Reports*, 35(5). <https://doi.org/10.3892/or.2016.4660>
- Zaorsky, N., Patil, N., Freedman, G. and Tuluc, M., (2012). Differentiating Lymphovascular Invasion from Retraction Artifact on Histological Specimen of Breast Carcinoma and Their Implications on Prognosis. *Journal of Breast Cancer*, 15(4), p.478.
- Zheng, G., Yu, H., Kanerva, A., Försti, A., Sundquist, K., & Hemminki, K. (2018). Familial risks of ovarian cancer by age at diagnosis, proband type and histology. *PLOS ONE*, 13(10). <https://doi.org/10.1371/journal.pone.0205000>
- Zheng, W., Aspelund, A., & Alitalo, K. (2014). Lymphangiogenic factors, mechanisms, and applications. *Journal of Clinical Investigation*, 124(3). <https://doi.org/10.1172/JCI71603>