

Stanford



Ann Folkins

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CLINICAL OFFICES

- **Pathology**

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Bio

BIO

Dr. Folkins specializes in the diagnosis and classification of gynecologic and obstetric disorders.

CLINICAL FOCUS

- Anatomic and Clinical Pathology
- Gynecologic and Obstetric Pathology

ACADEMIC APPOINTMENTS

- Assistant Professor - Med Center Line, Pathology

PROFESSIONAL EDUCATION

- Medical Education: University of California San Diego School of Medicine Registrar (2005) CA
- Board Certification: Anatomic and Clinical Pathology, American Board of Pathology (2011)
- Fellowship: Brigham and Women's Hospital Harvard Medical School (2009) MA
- Residency: Brigham and Women's Hospital Harvard Medical School (2008) MA
- Residency: Stanford Hospital and Clinics (2010) CA

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Folkins' interest is in gynecologic and obstetric pathology, specifically in ovarian and endometrial malignancies and placental clinical-pathologic disorders.

Publications

PUBLICATIONS

- **Endometriosis Malignant Transformation Review: Rhabdomyosarcoma Arising From an Endometrioma.** *JSLs : Journal of the Society of Laparoscopic Surgeons*

- Nezhat, C., Vu, M., Vang, N., Ganjoo, K., Karam, A., Folkins, A., Nezhat, A., Nezhat, F.
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- **Coexistence of BRAF V600E and TERT Promoter Mutations in Low-grade Serous Carcinoma of Ovary Recurring as Carcinosarcoma in a Lymph Node: Report of a Case** *INTERNATIONAL JOURNAL OF GYNECOLOGICAL PATHOLOGY*
Tavallae, M., Steiner, D. F., Zehnder, J. L., Folkins, A. K., Karam, A. K.
2019; 38 (4): 386–92
 - **Case 2: Infant with Early Direct Hyperbilirubinemia.** *NeoReviews*
Kumbhat, N., Folkins, A., Hawksley, C., Cohen, R.
2019; 20 (6): e350–e352
 - **Low-grade Serous Neoplasia of the Female Genital Tract.** *Surgical pathology clinics*
Folkins, A. K., Longacre, T. A.
2019; 12 (2): 481–513
 - **Molecular and Cellular Characterization of Placenta Previa and Accreta.**
Zhang, E. T., Rivera, K., Hannibal, R. L., McGowan, K., Zhu, X., Meinhardt, G., Knoefler, M., Pollheimer, J., Folkins, A., Lyell, D. J., Baker, J. C.
SAGE PUBLICATIONS INC.2019: 262A–263A
 - **Immediate intraoperative sentinel lymph node analysis by frozen section is predictive of lymph node metastasis in endometrial cancer.** *Journal of robotic surgery*
Renz, M., Marjon, N., Devereaux, K., Raghavan, S., Folkins, A. K., Karam, A.
2019
 - **Prognostic Significance of P16 Expression and P53 Expression in Primary Vaginal Cancer.** *International journal of gynecological pathology : official journal of the International Society of Gynecological Pathologists*
Nwachukwu, C. R., Harris, J. P., Chin, A., Von Eyben, R., Giaretta, S., Shaffer, J. L., Hiniker, S. M., Kapp, D. S., Folkins, A. K., Kidd, E. A.
2019; 38 (6): 588–96
 - **Prognostic Significance of P16 Expression and P53 Expression in Primary Vaginal Cancer.** *International journal of gynecological pathology : official journal of the International Society of Gynecological Pathologists*
Nwachukwu, C. R., Harris, J. P., Chin, A., Von Eyben, R., Giaretta, S., Shaffer, J. L., Hiniker, S. M., Kapp, D. S., Folkins, A. K., Kidd, E. A.
2018
 - **Omentum immune microenvironment: Metastatic niche for ovarian cancer**
Krishnan, V., Raju, P. A., Vierkoetter, K., Patel, S., Youngyupipatkul, J., Tallapragada, S., Schaar, B., Folkins, A. K., Herzenberg, L. A., Dorigo, O.
AMER ASSOC CANCER RESEARCH.2018
 - **Case of Metastatic Extramammary Paget Disease of the Vulva Treated Successfully With Trastuzumab Emtansine** *JCO PRECISION ONCOLOGY*
Hsieh, G. L., English, D. P., Tu, P., Folkins, A. K., Karam, A. K.
2018; 2
 - **Heme oxygenase-1 deficiency results in splenic T-cell dysregulation in offspring of mothers exposed to late gestational inflammation** *AMERICAN JOURNAL OF REPRODUCTIVE IMMUNOLOGY*
Ozen, M., Zhao, H., Kalish, F., Yang, Y., Folkins, A., Burd, I., Wong, R. J., Stevenson, D. K.
2018; 79 (5): e12829
 - **Coexistence of BRAF V600E and TERT Promoter Mutations in Low-grade Serous Carcinoma of Ovary Recurring as Carcinosarcoma in a Lymph Node: Report of a Case.** *International journal of gynecological pathology : official journal of the International Society of Gynecological Pathologists*
Tavallae, M., Steiner, D. F., Zehnder, J. L., Folkins, A. K., Karam, A. K.
2018
 - **Utility of p16 Immunohistochemistry in Evaluating Negative Cervical Biopsies Following High-risk Pap Test Results** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Shain, A. F., Kwok, S., Folkins, A. K., Kong, C. S.
2018; 42 (1): 69–75
 - **CONGENITAL SYPHILLIS PRESENTING AS DIRECT HYPERBILIRUBINEMIA DIAGNOSED BY PLACENTAL PATHOLOGY**
Kumbhat, N. P., Folkins, A., Cohen, R.
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- **Extent of lymphovascular space invasion may predict lymph node metastasis in uterine serous carcinoma** *GYNECOLOGIC ONCOLOGY*
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2017; 147 (1): 24–29
- **Interobserver Reproducibility Among Gynecologic Pathologists in Diagnosing Heterologous Osteosarcomatous Component in Gynecologic Tract Carcinosarcomas.** *International journal of gynecological pathology*
Sangoi, A. R., Kshirsagar, M., Roma, A. A., Horvai, A. E., Chivukula, M., Ellenson, L. H., Fadare, O., Folkins, A. K., Garg, K., Hanley, K., Longacre, T. A., Haas, J., McCluggage, et al
2017
- **Low-grade Serous Carcinoma of the Ovary: Clinicopathologic Analysis of 52 Invasive Cases and Identification of a Possible Noninvasive Intermediate Lesion.** *American journal of surgical pathology*
Ahn, G., Folkins, A. K., McKenney, J. K., Longacre, T. A.
2016; 40 (9): 1165-1176
- **Nomogram to Predict Risk of Lymph Node Metastases in Patients With Endometrioid Endometrial Cancer.** *International journal of gynecological pathology*
Pollom, E. L., Conklin, C. M., von Eyben, R., Folkins, A. K., Kidd, E. A.
2016; 35 (5): 395-401
- **Hemophagocytic lymphohistiocytosis as a paraneoplastic syndrome associated with ovarian dysgerminoma.** *Gynecologic oncology reports*
Nosrati-Baskovic, M., Tan, B., Folkins, A., Chisholm, K. M., Dorigo, O.
2016; 17: 38-41
- **Placental and Clinical Characteristics of Term Small-for-Gestational-Age Neonates: A Case-Control Study** *PEDIATRIC AND DEVELOPMENTAL PATHOLOGY*
Chisholm, K. M., Folkins, A. K.
2016; 19 (1): 37-46
- **Prenatal hydrops foetalis associated with infantile free sialic acid storage disease.** *Journal of obstetrics and gynaecology*
Chock, V. Y., MILAN, K. E., Folkins, A. K., Hazard, F. K., Bernstein, J. A., Hintz, S. R.
2015; 35 (8): 850-852
- **Variable color Doppler sonographic appearances of retained products of conception: radiologic-pathologic correlation.** *Abdominal imaging*
Kamaya, A., Krishnarao, P. M., Folkins, A. K., Jeffrey, R. B., Desser, T. S., Maturen, K. E.
2015; 40 (7): 2683-2689
- **Cost and turn-around time display decreases inpatient ordering of reference laboratory tests: a time series.** *BMJ quality & safety*
Fang, D. Z., Sran, G., Gessner, D., Loftus, P. D., Folkins, A., Christopher, J. Y., Shieh, L.
2014; 23 (12): 994-1000
- **Risk of Secondary Malignancy (Including Breast) in Patients With Mismatch-repair Protein Deficiency** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*
Clay, M. R., Allison, K. H., Folkins, A. K., Longacre, T. A.
2014; 38 (11): 1494-1500
- **Evaluation of serial urine viral cultures for the diagnosis of cytomegalovirus infection in neonates and infants.** *Pediatric and developmental pathology*
Chisholm, K. M., Aziz, N., McDowell, M., Guo, F. P., Srinivas, N., Benitz, W. E., Norton, M. E., Gutierrez, K., Folkins, A. K., Pinsky, B. A.
2014; 17 (3): 176-180
- **Diagnosis of Congenital CMV Using PCR Performed on Formalin-fixed, Paraffin-embedded Placental Tissue.** *American journal of surgical pathology*
Folkins, A. K., Chisholm, K. M., Guo, F. P., McDowell, M., Aziz, N., Pinsky, B. A.
2013; 37 (9): 1413-1420
- **Hereditary gynaecological malignancies: advances in screening and treatment** *HISTOPATHOLOGY*
Folkins, A. K., Longacre, T. A.
2013; 62 (1): 2-30
- **The impact of tissue block sampling on the detection of p53 signatures in fallopian tubes from women with BRCA 1 or 2 mutations (BRCA+) and controls** *MODERN PATHOLOGY*
Mehra, K. K., Chang, M. C., Folkins, A. K., Raho, C. J., Lima, J. F., Yuan, L., Mehrad, M., Tworoger, S. S., Crum, C. P., Saleemuddin, A.

2011; 24 (1): 152-156

- **Evaluation of vascular space involvement in endometrial adenocarcinomas: laparoscopic vs abdominal hysterectomies** *98th Annual Meeting of the United-States-and-Canadian-Academy-of-Pathology*
Folkins, A. K., Nevadunsky, N. S., Saleemuddin, A., Jarboe, E. A., Muto, M. G., Feltmate, C. M., Crum, C. P., Hirsch, M. S.
NATURE PUBLISHING GROUP.2010: 1073-79
- **Utility of Chromosomal Chromogenic in Situ Hybridization as an Alternative to Flow Cytometry and Cytogenetics in the Diagnosis of Early Partial Hydatidiform Moles A Validation Study** *15th World Congress on Gestational Trophoblastic Diseases*
Folkins, A., Cruz, L., Goldstein, D. P., Berkowitz, R. S., Crum, C., Kindelberger, D.
SCI PRINTERS & PUBL INC.2010: 275-78
- **Tubal and ovarian pathways to pelvic epithelial cancer: a pathological perspective** *HISTOPATHOLOGY*
Jarboe, E. A., Folkins, A. K., Drapkin, R., Ince, T. A., Agoston, E. S., Crum, C. P.
2009; 55 (5): 619-619
- **Epidemiologic correlates of ovarian cortical inclusion cysts (CICs) support a dual precursor pathway to pelvic epithelial cancer** *GYNECOLOGIC ONCOLOGY*
Folkins, A. K., Saleemuddin, A., Garrett, L. A., Garber, J. E., Muto, M. G., Tworoger, S. S., Crum, C. P.
2009; 115 (1): 108-111
- **Intercepting early pelvic serous carcinoma by routine pathological examination of the fimbria** *MODERN PATHOLOGY*
Semmel, D. R., Folkins, A. K., Hirsch, M. S., Nucci, M. R., Crum, C. P.
2009; 22 (8): 985-988
- **Precursors to pelvic serous carcinoma and their clinical implications** *GYNECOLOGIC ONCOLOGY*
Folkins, A. K., Jarboe, E. A., Roh, M. H., Crum, C. P.
2009; 113 (3): 391-396
- **Risk factors for a serous cancer precursor ("p53 signature") in women with inherited BRCA mutations** *GYNECOLOGIC ONCOLOGY*
Saleemuddin, A., Folkins, A. K., Garrett, L., Garber, J., Muto, M. G., Crum, C. P., Tworoger, S.
2008; 111 (2): 226-232
- **Tubal and ovarian pathways to pelvic epithelial cancer: a pathological perspective** *HISTOPATHOLOGY*
Jarboe, E. A., Folkins, A. K., Drapkin, R., Ince, T. A., Agoston, E. S., Crum, C. P.
2008; 53 (2): 127-138
- **Adenofibroma of the fimbria: A common entity that is indistinguishable from ovarian adenofibroma** *INTERNATIONAL JOURNAL OF GYNECOLOGICAL PATHOLOGY*
Bossuyt, V., Medeiros, F., Drapkin, R., Folkins, A. K., Crum, C. P., Nucci, M. R.
2008; 27 (3): 390-397
- **A candidate precursor to pelvic serous cancer (p53 signature) and its prevalence in ovaries and fallopian tubes from women with BRCA mutations** *GYNECOLOGIC ONCOLOGY*
Folkins, A. K., Jarboe, E. A., Saleemuddin, A., Lee, Y., Callahan, M. J., Drapkin, R., Garber, J. E., Muto, M. G., Tworoger, S., Crum, C. P.
2008; 109 (2): 168-173
- **Serous carcinogenesis in the fallopian tube: A descriptive classification** *INTERNATIONAL JOURNAL OF GYNECOLOGICAL PATHOLOGY*
Jarboe, E., Folkins, A., Nucci, M. R., Kindelberger, D., Drapkin, R., Miron, A., Lee, Y., Crum, C. P.
2008; 27 (1): 1-9
- **Improving the Deaf community's access to prostate and testicular cancer information: a survey study** *BMC PUBLIC HEALTH*
Folkins, A., Sadler, G. R., Ko, C., Branz, P., Marsh, S., Bovee, M.
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- **Does HER2/neu expression provide prognostic information in patients with advanced urothelial carcinoma?** *CANCER*
Gandour-Edwards, R., Lara, P. N., Folkins, A. K., LaSalle, J. M., Beckett, L., Li, Y. J., Meyers, F. J., DeVere-White, R.
2002; 95 (5): 1009-1015