CURRICULUM VITAE

 **Date prepared:** September 21, 2018

**Name:** Lester J. Layfield, M.D.

**Primary academic appointment:** Pathology

**Present academic rank and title:** Professor and Chairman

Pathology and Anatomical Sciences

 University of Missouri School of Medicine

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**University Medical School Committees:**

Executive Committee, Department of Pathology

Cancer Committee, University of Utah Medical Center

 Pathology Representative to Sarcoma Service

 UUMG Contracting Committee

**Medical Licensure:** Missouri, 2012, #2012029315

Utah, 1997, #97-347231-1205

 North Carolina, 1992, Permanent, #35013

 California, 1980, Permanent, # G43684

**Specialty certification and dates:**

 Diplomat, National Board of Medical Examiners, 1980

 American Board of Pathology (Anatomic Pathology), November 1983

 American Board of Pathology (Clinical Pathology), November 1983

 American Board of Pathology (Cytopathology), July 1997

**Date of birth:** October 1, 1952  **Place:** Vancouver, British Columbia

 **Citizen of:** United States

**Education:** **Place Date Degree**

 High School California High School 1970 HSD

 Whittier CA

 College University of California 1974 B.S. Irvine, California

 (Magna Cum Laude)

 Graduate School

 or Professional School University of California 1979 M.D.

 Los Angeles, California

**Scholarly societies:** Phi Beta Kappa

 Alpha Omega Alpha

The Arthur Purdy Stout Society of Surgical Pathologists

 The International Academy of Cytology

Papanicolaou Society of Cytopathology (President-elect)

 American Society of Cytopathology

American Association of Heads of Anatomic and Surgical Pathology

 International Society of Breast Pathology

 American Society of Clinical Pathology

 United States & Canadian Academy of Pathology

**Professional training and academic career:**

1979-80 Internship, University of Washington, Seattle, Washington

1980-83 Residency, University of California at Los Angeles, California

1983-84 Chief Resident, University of California at Los Angeles, California

1983-84 Adjunct Professor of Pathology

 University of California at Los Angeles, California

1984-89 Assistant Professor, Department of Pathology

 University of California at Los Angeles, California

1984-90 Children’s Cancer Study Group Pathology

 University of California at Los Angeles, California

1984-90 Director of Fine Needle Aspiration Service

 University of California at Los Angeles, California

1989-90 Associate Professor, Department of Pathology

 University of California at Los Angeles, California

1990-92 Associate Professor, Department of Pathology

 University of Iowa Hospitals and Clinics, Iowa City, Iowa

1990-92 Co-Director of Cytology

 University of Iowa Hospitals and Clinics, Iowa City, Iowa

1992-96 Associate Professor, Department of Pathology

 Duke University Medical Center, Durham, North Carolina

1992-97 Director of FNA Service (2100 specimens per year). Department of Pathology, Duke University Medical Center, Durham, North Carolina

1992-97 Director of Image Analysis Laboratory (2000 tests per year). Department of Pathology, Duke University Medical Center, Durham, North Carolina

1993-97 Head, Section of Surgical Pathology, Department of Pathology

 Duke University Medical Center, Durham, North Carolina

1996-97 Professor, Department of Pathology

 Duke University Medical Center, Durham, North Carolina

1997 - 2012 Director, Surgical Pathology, Department of Pathology

 University of Utah Health Sciences Center

Vice President for Anatomic Pathology, ARUP Laboratories

2000 – 2012 Director, Anatomic Molecular Diagnostics Laboratory, ARUP Institute for Clinical and Experimental Pathology

2012-2018 Chairman, Pathology and Anatomical Sciences, University of Missouri, Columbia, Missouri

2018-present Professor, and Director of Anatomic Pathology, Pathology and Anatomical Sciences, University of Missouri, Columbia, Missouri

**PUBLICATIONS:**

 **I. Refereed Journals:**

1. Sherwin RP, Layfield, LJ. Proteinuria in guinea pigs exposed to 0.5 ppm nitrogen dioxide. Arch Environ Health 24:331- 336, 1972.
2. Sherwin RP, Layfield LJ. Protein leakage in the lungs of mice exposed to 0.5 ppm nitrogen dioxide. Arch Environ Health 31: 116-118, 1976.
3. Child JS, MacAlpin RV, Moyer GH, Layfield LJ. Coronary ostial embolus and mitral vegetation simulating a left mitral myxoma. Clin Cardiol 2:43-48, 1979.
4. De Keyer L, Layfield LJ, Van Herle A, Costin A, Lewin K. Biochemical and immunohisto­chemical characterization of proteins in Hurthle cell carcinoma. J Endocrinol Invest 7:449- 454, 1984.
5. Lewin KJ, Layfield LJ, Cheng L. Disseminated bombesin-producing carcinoid tumor of pulmonary origin. Am J Clin Pathol 9:129-134, 1985.
6. Glasgow BJ, Anders K, Layfield LJ, et al. Clinical and pathologic findings of the liver in the Acquired Immune Deficiency Syndrome (AIDS). Am J Clin Pathol 83:582-588, 1985.
7. Glasgow BJ, Steinsapir KD, Anders K, Layfield LJ. Adrenal pathology in the Acquired Immune Deficiency Syndrome. Am J Clin Pathol 84:594-597, 1985.
8. Ulich TR, Layfiled LJ, Grody W, Cheng L, Lewin KJ, Brambilla C. Absence of death antigen in a series of needle biopsies of chronic active hepatitis. Arch Pathology Lab Med. 1985;109(12):1061.
9. Anders K, Steinsapir K, Zverson DJ, Glasgow BJ, Layfield LJ, et al. Neuropathologic findings in the Acquired Immunodeficiency Syndrome (AIDS). Clin Neuro Pathol 5:1-20, 1986.
10. Layfield LJ. Fine needle aspiration cytology of a trabecular adenoma of the parotid gland. Acta Cytol 29: 999-1002, 1985.
11. Layfield LJ, Glasgow BJ, Du Puis MH. Fine needle aspiration of lymphadenopathy of suspected infectious etiology. Arch Pathol Lab Med 109:810-812, 1985.
12. Levitt S, Cheng L, Du Puis MH, Layfield LJ. Fine needle aspiration diagnosis of malignant lymphoma with confirmation by immunoperoxidase staining. Acta Cytol 29:895- 902, 1985.
13. Ulich TR, Layfield LJ, et al. Fatal septic shock after fine needle aspiration of a pancreatic pseudocyst. Acta Cytol 29: 879-881, 1985.
14. Ulich TR, Anders K, Layfield LJ, et al. Chronic active hepatitis of Hepatitis B and non-A Non-B etiology. Arch Pathol Lab Med 109: 403-407, 1985.
15. Layfield LJ, Anders K, Glasgow BJ, Mirra JM. Fine needle aspiration cytology of primary soft tissue tumors. Arch Pathol Lab Med 110:420-424, 1986.
16. Layfield LJ, Ulich TR, Liao R, et al. Neuroendocrine carcinoma of the skin: An immuno-histochemical study of tumor markers and neuroendocrine products. J Cutaneous Pathol 13: 268- 273, 1986.
17. Lewin KJ, Ulich TR, Yang K, Layfield LJ. The endocrine cells of the gastrointestinal tract. II Tumor Path Annual Part 2, 1986.
18. Agastein EH, Hernandez FJ, Layfield LJ, et al. Utilization of fine needle aspiration for detection of stage A prostate carcinoma prior to TURP: A clinical trial. J Urol 138: 551-3, 1987.
19. Ulich TR, Liao SY, Layfield LJ. et al. Neuroendocrine and tumor differentiation markers in small cell carcinomas of the cervix and vagina. Arch Pathol Lab Med 110: 1054-1057, 1986.
20. Hilborne L, Glasgow BJ, Layfield LJ. Aspiration cytology of a juvenile hemangioma of the parotid gland: A case report and review of the literature. Diagn Cytol Pathol 3:117-119, 1987.
21. Layfield LJ, Anders K, Glasgow BJ, Mirra JM. Fine needle aspiration cytology of primary bone lesions. Acta Cytol 31: 177-184, 1987.
22. Layfield LJ, Glasgow B, Du Puis MH, Bhuta S. Aspiration of cytology and immuno­histochemistry of a pheochromocytoma-ganglioneuroma of the adrenal gland. Acta Cytol 31: 33-39, 1987.
23. Layfield LJ, Tan P, Glasgow B. Fine needle aspiration accuracy and pitfalls in the diagnosis of salivary gland lesions. Arch Pathol Lab Med 11: 346-333, 1987.
24. Layfield LJ, Hilborne L, Glasgow BJ, Mukamel E, DeKernion J. Utilization of fine needle aspiration cytology in grading of prostatic carcinoma. J Urol 138: 798-800, 1987.
25. Mukamel E, Layfield L, Hankins R, de Kerion JB. The effect of Bacilus Calmette-Guerin on the urinary tract of pigs. J Urol 136: 165-169, 1988.
26. Layfield LJ, Hilborne LH, Ljung, BM, Feig S, Ehrich RM. Use of fine needle aspiration cytology for the diagnosis of testicular relapse in patients with acute lymphoblastic leukemia. J Urol 139: 1020-1022, 1988.
27. Layfield LJ, Bhuta S. Fine needle aspiration cytology of histiocytosis X: A case report. Diagn Cytopathol 4: 140- 143, 1988.
28. Layfield LJ, Weinstein W, Cheng L, Ulich TR, Lewin KJ. Serotonin and polypeptide hormone production in Barrett's esophagus. Surg Pathol 1: 131-136, 1988.
29. Layfield LJ, Ferreiro JA. Fine needle aspiration cytology of chondromyxoid fibroma - A case report. Diagn Cytopathol 4: 148-151, 1988.
30. Ostrzega N, Cheng L, Layfield LJ. Keratin immunoreactivity in fine needle aspiration of the prostate. An aid in the differentiation of benign epithelium from well-differentiated adenocarcinoma. Diagn Cytopathol 4: 38-41, 1988.
31. Ritchie AWS, Dorey F, Layfield LJ, Hannah J, Lovrekovich H, de Kerion JB: The relationship of DNA content to conventional prognostic factors in clinically localized carcinoma of the prostate. Brit J Urol 62: 254-260, 1988.
32. Ritchie AWS, Layfield LJ, de Kerion JB. Spontaneous regression of liver metastasis from a renal cell carcinoma. J Urol 140: 596-597, 1988.
33. Barsky SH, Layfield LJ, Verki N, Bhuta S. Two human tumors with high basement membrane - producing potential. Cancer 61: 1798-1806, 1988.
34. Ritchie AWS, Layfield LJ, Turcillo P, de Kerion JB. The significance of atypia in fine needle aspiration cytology of the prostate. J Urol 110: 761-765, 1988.
35. Layfield LJ, Glasgow BJ, Cramer H. Fine needle aspiration in the management of breast masses. In Pathology Annual 1989 Part II, PP Rosen, RE Fechner (eds). Appleton-Century-Crofts, Norwalk, CT 1989, 23-62.
36. Layfield LJ, Ritchie AWS, de Kerion JB. Fine needle aspiration of the prostate: Technique and interpretation. Proceedings of the Organ Systems Program of the National Cancer Institute Maine Conference, 1987.
37. Hart J, Layfield LJ, Trumbull WE, Barker W, Giuliano AE. Practical aspects in the diagnosis and management of cystosarcoma phyllodes. Arch Surg 123: 1079-1083, 1988.
38. Ostrzega N, Cheng L, Layfield LJ. Glial fibrillary acid protein immunoreactivity in fine needle aspiration of salivary gland neoplasms. Diagn Cytopathol 5: 145-149, 1989.
39. Kioumehr F, Cochran ST, Layfield LJ, et al. Wilms' Tumor in the adult patient: Clinical and radiological manifestations. Am J Radiol 152: 299-302, 1989.
40. Hall TL, Layfield LJ, Philippe A, Rosenthal DL. Sources of diagnostic error in fine needle aspiration of the thyroid. Cancer 63: 718-725, 1989.
41. Layfield LJ, Ostrzega N. Fine needle aspiration smear morphology of metastatic melanoma. Acta Cytol 33: 606-612, 1989.
42. Turner RR, Layfield LJ, Bishop PC, Epstein AL, Parker JW. Flow cytometric measurements of proliferation associated nuclear antigen p105 and DNA content in non-Hodgkin's lymphomas. Arch Pathol Lab Med 113: 907-911, 1989.
43. Layfield LJ, Hall T, Fu YS. Discrimination of benign versus malignant mixed tumors of the salivary gland using digital image analysis. Cytometry 10: 217-222, 1989.
44. Gritsch HA, Randazzo RF, Layfield LJ, de Kernion JB. Invasive giant condyloma acuminata: A case report. J Urol 141: 950-952, 1989.
45. Trapp T, Lufkin R, Abemayer E, Layfield LJ, et al. A new needle and technique for MRI-guided aspiration cytology of the head and neck. Laryngoscope 99: 105-108, 1989.
46. Kopald KH, Layfield LJ, Mohrmann R, Giuliano AE. Clarifying the role of fine needle aspiration cytology and frozen section examination in the operative management of thyroid cancer. Arch Surg 124:1201-1204, 1988.
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50. Lufkin R, Layfield LJ. Technical note: New coaxial needle system for MR and CT guided aspiration cytology. J Comp Assist Tomogr 13: 1105-1107, 1989.
51. Layfield LJ. Fine needle aspiration cytologic findings in a case of sinus histiocytosis with massive lymphadenopathy (Rosai-Dorfman Syndrome). Acta Cytol 34: 767-770, 1990.
52. Castro DJ, Saxton RE, Layfield LJ, Fetterman HR, et al. Interstitial laser phototherapy assisted by magnetic resonance imaging: A new technique for monitoring of laser- tissue interaction. Laryngoscope 100: 541-547, 1990.
53. Lufkin R, Robinson J, Castro D, Wilson C, Levesque M, Jabour B, Duckwiler G, Layfield LJ, Hanafee W. Interventional MRI in the head and neck. TMRI 2: 76-80, 1990.
54. Layfield LJ, Glasgow BJ. Rhabdomyosarcomatous differentiation in a neuroblastoma: A potential pitfall in the cytologic diagnosis of small round cell tumors of childhood. Diagn Cytopathol 7:193-197, 1991.
55. Layfield LJ, Lones MA. Necrosis in thyroid nodules after fine needle aspiration biospy: A report of two cases. Acta Cytol 35:427-430, 1991.
56. Seeger LL, Butler DL, Eckardt JJ, Layfield LJ, Adams JS. Tumoral calcinosis-like lesions of the proximal linea aspera. Skeletal Radiol 19:579-583, 1990.
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58. Goldstein N, Layfield LJ. Thyromegaly secondary to the simultaneous occurrence of papillary carcinoma and histiocytosis X: A case report and review of the literature. Acta Cytol 35:422-426, 1991.
59. Layfield LJ, Reichman A. Fine-needle aspiration cytology: Utilization in pediatric pathology. Dis Markers 8:301-315, 1990.
60. Layfield LJ, Heaps JM, Berek JS. Fine needle aspiration cytology accuracy with palpable gynecologic neoplasms. Gynecol Oncol 40:70-73, 1991.
61. Wenokur R, Andrews JC, Abemayor E, Bailet J, Layfield L, Canalis RF, Jabour B, Lufkin RB. Magnetic resonance imaging-guided fine needle aspiration for the diagnosis of skull base lesions. Skull Base Surg. 2(3):167-70, 1992.
62. Layfield LJ, Glasgow BJ. Diagnosis of salivary gland tumors by fine needle aspiration cytology. A review of clinical utility and pitfalls. Diagn Cytopathol 7:267-272, 1991.
63. Glasgow BJ, Layfield LJ. Fine needle aspiration biopsy of orbital and periorbital masses. Diagn Cytopathol 7:132- 141, 1991.
64. Layfield LJ, Glasgow BJ, Goldstein N, Lufkin R. Lipomatous lesions of the parotid gland: Potential pitfalls for aspiration biopsy diagnosis. Acta Cytol 35:553-556, 1991.
65. MacFarlane M, Stein A, Layfield LJ, De Kernion JB. Preoperative endoscopic diagnosis of fibroepithelial polyp of the renal pelvis: A case report and review of the literature. J Urol 145:549-551, 1991.
66. Layfield LJ. Fine-needle aspiration biopsy in the diagnosis of pediatric tumors. West J Med 154:90, 1991.
67. Castro DJ, Saxton RF, Ward PH, Oddie, JW, Layfield LJ, Lufkin RB, Calcaterra JC. Flexible Nd: YAG laser palliation of obstructive tracheal metastatic malignancies. Laryngoscope 100: 1208-1214, 1990.
68. Layfield LJ, Mohrmann RL, Kopold KH, Gialiano AE. Utilization of aspiration cytology and frozen section examination for management of benign and malignant thyroid nodules. Cancer 68:130-134, 1991.
69. Layfield LJ, Goldstein N. Morphometric analysis of atypia in prostatic fine needle aspiration. J Anal Quan Cyto 13:288-292, 1991.
70. Layfield LJ, Glasgow BJ, Ostrezega N, Reynolds CP. Fine needle aspiration cytology and the diagnosis of small cell neoplasms in the pediatric age group. Diagn Cytopathol 7:451-461, 1991.
71. Layfield LJ. Fine needle aspiration cytology of cystic parathyroid lesions: A cytomorphologic overlap with cystic lesions of the thyroid. Acta Cytol 35:447-450, 1991.
72. Layfield LJ, Lenarsky C. Desmoplastic small cell tumors of the peritoneum coexpressing mesenchymal and epithelial markers. Am J Clin Pathol 96:536-543, 1991.
73. Castro DJ, Gaskin A, Saxton RE, Reisler E, Nishimura E, Stephen YC, Rogerson DD, Layfield LJ, Tartell PB, Castro DJ, Ward PH. Photodynamic therapy using Rhodamine-123 as a new laser dye: Biodistribution, metabolism and histology in New Zealand rabbits. Laryngoscope 101:158-164, 1991.
74. Dresel SHJ, Mackey JK, Lufkin RB, Jabour BA, Desalles AAF, Layfield LJ, et al. Meckel cave lesions: Percutaneous fine-needle-aspiration biopsy cytology. Radiology 179:579-582, 1991.
75. Layfield LJ, Parkinson B, Wong J, Giuliano AE, Bassett LW. Mammographically guided fine-needle aspiration biopsy of non-palpable breast lesions: Can it replace open biopsy? Cancer 68:2007-2011, 1991.
76. Layfield LJ, Reichman A, Weinstein WM. Endoscopically directed fine needle aspiration biopsy of gastric and esophageal lesions. Acta Cytol 36:69-74, 1992.
77. Layfield LJ, Fain JS. Pleomorphic fibroma of skin: A case report and immunohistochemical study. Arch Pathol Lab Med 115:1046-1049, 1991.
78. Bottles K, Reznick MJ, Holly EA, Ahn DK, Layfield LJ, Cohen MB. Cytologic criteria used to diagnose adenocarcinoma in pleural effusions. Mod Pathol 4: 667-681, 1991.
79. Layfield LJ, Robert ME, Cramer H, Giuliano A. Aspiration biopsy smear pattern as a predictor of biologic behavior in adenocarcinomas of the breast. Acta Cytol 36:208-214, 1992.
80. Layfield LJ, Reznicek M, Lowe M, Bottles K. Spontaneous infarction of a parotid gland pleomorphic adenoma: Cytologic and radiographic overlap with a primary salivary gland malignancy. Acta Cytol 36:381-386; 1992.
81. Anzai Y, Lufkin RB, Saxton RE, Fetterman H, Furghani K, Layfield LJ, Jolesz FC, Hanafee WH, Castro DJ. Nd:YAG interstitial laser phototherapy guided by magnetic resonance imaging in an ex vivo model: Dosimetry of laser - MR - Tissue interaction. Laryngoscope 101:755-760, 1991.
82. Anzai Y, Lufkin RB, Castro DJ, Farahani K, Jabour BA, Layfield LJ, Udkoff R, Hanafee WN. Imaging-guided interstitial Nd:YAG laser phototherapy: Dosimetry study of acute tissue damage in an in vivo model. JMRI 1:553-559, 1991.
83. Layfield LJ, Reichman A, Bottles K, Guiliano A. Clinical determinants for the management of thryoid nodules by fine-needle aspiration cytology. Arch Otolaryng Head Neck Surg 118:717-721; 1992.
84. Han MH, Jabour B, Andrews J, Lufkin R, Layfield LJ, Becker D, Hanafee W. MR-guided aspiration and drainage of a nasopharyngeal mucus retention cyst. Am J Neuroradiol 12:1185-1186, 1991.
85. Wenokur R, Andrews JC, Abemayor E, Bailet J, Layfield, et al. Magnetic resonance imaging guided fine needle aspiration for the diagnosis of skull base lesions. Skull Base Surg. 1992, 2 (3):167-70.
86. Cramer H, Layfield LJ, Lampe H. Fine needle aspiration of salivary gland lesions. Cytopathology Annual 93 Baltimore, Williams and Wilkins, 1993, pp. 181-206.
87. Robinson JD, Castro DJ, Layfield LJ, Lufkin RB. Magnetic resonance imaging of laser phototherapy: Initial experience. Eur Radiol 2:24-28; 1992.
88. Castro DJ, Lufkin RB, Saxton RE, Nyerges A, Soudant J, Layfield LJ et al. Metastatic head and neck malignancy treated using MRI guided interstitial laser phototherapy: An initial case report. Larynscope 102:26-32, 1992.
89. Layfield LJ, Armstrong K, Zaleski S, Eckhardt J. Diagnostic accuracy and clinical utility of fine needle aspiration cytology in the diagnosis of clincally primary bone lesions. Diagn Cytopathol 9:168-173; 1993.
90. Cohen MB, Layfield LJ. Fine needle aspiration biopsy of soft tissue tumors. Cytopathology Annual, Chicago, ASCP Press, 1994, pp. 101-132.
91. Layfield LJ, Glasgow BJ. Aspiration biopsy cytology of primary cutaneous tumors. Acta Cytol 37:679-688, 1993.
92. Layfield LJ, Chrischilles EA, Cohen MB, Bottles K. The palpable breast nodule: A cost-effectiveness analysis of alternate diagnostic approaches. Cancer 72:1642-1651; 1993.
93. Layfield LJ, Glasgow BJ. Aspiration cytology of clear cell lesions of the parotid gland: Morphologic features and differential diagnosis. Diagn Cytopathol 9:705-712; 1993.
94. Kerns BJ, Jordan PA, Huper G, Marks JR, Iglehart JD, Layfield LJ. Assessment of c-erb-B-2 amplification by immunohistochemistry in paraffin-embedded breast cancer. Mod Pathol 6:673-678, 1993.
95. Kerns BJ, Jordan PA, Faerman LL, Berchuck A, Bast RC, Layfield LJ. Determination of proliferation index with MIB-1 in advanced ovarian cancer using quantitative image analysis. Am J Clin Pathol 101:192-197; 1994.
96. Wax TD, Layfield LJ, Zaleski S, Bhargara V, Cohen M, Lyerly HK, Fisher SR. Cytomegalovirus sialdenitis in patients with the acquired immunodeficiency syndrome. A potential diagnostic pitfall with fine-needle aspiration cytology. Diagn Cytopathol 10:169-174, 1994.
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99. Layfield LJ, Zaleski S, Bottles K, Cohen MB. Laboratory compliance with Federal Government and professional society recommendations. Diagn Cytopathol 11:85-92, 1994.
100. Layfield LJ. Focal fatty change of the liver: Cytologic findings in a radiographic mimic of metastases. Diagn Cytopathol 11:385-389, 1994.
101. Prose NS, Fahrner LJ, Miller CR, Layfield LJ. Pustular psoriasis with chronic recurrent multifocal osteomyelitis and spontaneous fractures. JAA Derm 31:376-379, 1994.
102. Layfield LJ, Berek JS. Fine-needle aspiration cytology in the management of gynecologic oncology patients. Cancer Treat Res. 1994;70:1-13/
103. Layfield LJ, Thompson JK, Dodge RK, Kerns BJ. Prognostic indicators for neuroblastoma; stage, grade, DNA ploidy, MIB-1 proliferation index, p53, Her-2/neu and EGFr. A survival study. J Surg Oncol 59:21-27, 1995.
104. Layfield LJ, Wax TD, Lee JG, Cotton, PB. Accuracy and morphologic aspects of pancreation biliary duct brushings. Acta Cytol 39:11-18, 1995.
105. Glasgow BJ, Goldberg RA, Gordon L, Krauss H, Layfield LJ. Fine needle aspiration of the orbit. Ophthalmology Clinics of North America 8:73-82, 1995.
106. Dodd LG, Madigan SK, Robertson CN, Coogan AC, Layfield LJ. Collecting duct carcinoma occurring in a horseshoe kidney. J Urol Pathol 3: 51-59, 1995.
107. Dodd LG, Farrell TA, Layfield LJ. Mucinous cystic tumor of the pancreas: An analysis of FNA findings. Diagn Cytopathol 12:113-119, 1995.
108. Lee JG, Leung JW, Baillie J, Layfield LJ, Cotton PB. Benign, dysplastic or malignant - making sense of endoscopic bile duct brush cytology: Results of 149 consecutive patients. Am J Gastroenterol 90:722-726, 1995.
109. Layfield LJ. Fine needle aspiration of the breast: Review of the technique and a comparison with excisional biopsy. Current Diagnostic Pathology 2:138-145, 1995.
110. Layfield LJ, Kerns BJ, Conlon DH, Iglehart JD, Marks JR, Dodge RK. Determination of proliferation index by MIB-1 in early stage breast cancer using quantitative image analysis. Breast J 1:362-371, 1995.
111. Raab SS, Isacson C, Layfield LJ, Lenel JC, Slagel DD, Thomas PA. Atypical glandular cells of undetermined significance: cytologic criteria to separate clinically significant from benign lesions. Am J Clin Pathol 104:574-582, 1995.
112. Lee JG, Leung JW, Cotton PB, Layfield LJ, Mannon PJ. Diagnostic utility of K-ras mutational analysis on bile obtained by endoscopic retrograde cholangiopancreatography. Gastrointest Endosc 42:317-320, 1995.
113. Lo J, Kerns BJ, Amling CL, Robertson CN, Layfield LJ. Correlation of DNA ploidy and histological diagnosis from prostate core-needle biopsies. Is DNA ploidy more sensitive than histology for the diagnosis of carcinoma in small specimens? J Surg Oncol. 1996;63(1):41-45.
114. Layfield LJ, Conlon DH, Dodge R, Saria E, Kerns BJ. Immunohistochemically determined estrogen and progesterone receptor levels: A comparison of three commercially available antibodies with the ligand-binding assay. The Breast Journal 2:362-371, 1996.
115. Layfield LJ, Saria E., Conlon DH, Kerns BJ. Estrogen and progesterone receptor status determined by the Ventana ES 320TM automated immunohistochemical stainer and the CAS 200TM image analyzer in 236 early stage breast carcinomas: Prognostic significance. J Surg Oncol 61:177-184, 1996.
116. Brizel DM, Scully SP, Harrelson JM, Layfield LJ, et al. Tumor oxygenation predicts for the likelihood of distant metastases in human soft tissue sarcoma. Cancer Res 56:941-943, 1996.
117. Vredenburgh JJ, Silvo O, Tyer C, DeSombre K, Cook M, Layfield L, Peters WP, Bast RC Jr. A comparison of immunohistochemistry, two-color immunofluorescence and flow cytometry with cell sorting for the detection of micrometastatic breast cancer in the bone marrow. Hematotherapy 5:57-62, 1996
118. Krigman HR, Iglehart JD, Coogan AC, Layfield LJ. Fine needle aspiration of low grade adenosquamous carcinoma of the breast. Diagn Cytopathol 14:321-324, 1996.
119. Dodd LG, Moffatt EJ, Hudson ER, Layfield LJ. Fine-needle aspiration of primary gallbladder carcinoma. Diagn Cytopathol 15:151-156, 1996.
120. Layfield LJ, Coogan A, Johnston WB, Patz EF. Transthoracic fine-needle aspiration biopsy: Sensitivity in relation to guidance technique and lesion size and location. Acta Cytol 40:687-690, 1996.
121. Layfield LJ. Fine-needle aspiration of the head and neck. Pathology (Philia) 1996; 4(2):409-438.
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123. Jones DN, McCowage BG, Sostman HD, Brizel DM, Layfield LJ, Charles HC, Dewhirst MW, Prescott DM, Friedman HS, Harrelson JM, Scully SP. Monitoring of neoadjuvant therapy responses of soft tissue and musculoskeletal sarcoma using fluorine-18-FDG PET. J Nucl Med 37:1438-1444, 1996.
124. Brizel DM, Scully SP, Harrelson JM, Layfield LJ, et al. Radiation therapy and hyperthermia improve the oxygenation of human soft tissue sarcomas. Cancer Res 56:5347-5350, 1996.
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128. Layfield LJ, Dodd LG. Cytologically low grade malignancies. An important interpretative pitfall responsible for false negative diagnoses in fine needle aspiration of the breast. Diagn Cytopathol 15:250-259, 1996.
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130. Dodd LG, Layfield LJ. Fine-needle aspiration cytology of ganglion cysts. Diagn Cytopathol 15:377-381, 1996.
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110. Witt BL, Adler DG, Hilden K, Layfield LJ. A Comparative Needle Study: EUS-FNA Procedures Using the HD ProCore™ and EchoTip® 22-Gauge Needle Types. ASC Annual Meeting, November 2-6, 2012 in Las Vegas, NV.
111. Witt BL, Layfield LJ and Schmidt RL. Impact of Rapid On-Site Evaluation (ROSE) on the Adequacy of Fine Needle Aspiration Cytology (FNAC) for Thyroid Lesions: A Systematic Review and Meta-Analysis. American Society for Cytopathology, National Meeting, Las Vegas, 2012.
112. Schmidt RL, Cook JB, Affolter KE, Factor RE, Hall BJ, Narra KK, Witt BL and Layfield LJ. Variability in Methods Specification for Diagnostic Test Accuracy Studies in Fine-Needle Aspiration Cytology: A Survey of Reporting Practice. ASCP Annual Meeting. October, 2011. Las Vegas.
113. Matynia AP, Schmidt RL, Barraza G, Layfield LJ and Adler DG. Impact of Rapid On-Site Evaluation on Adequacy of EUS-FNA for Solid Pancreatic Lesions: A Systematic Review and Meta-Analysis. ASCP Annual Meeting, Boston, October 31-November 3, 2012.
114. Lopez L, Schmidt RL, Witt BL, and Layfield LJ. Impact of Rapid On-Site Evaluation (ROSE) on Adequacy of FNAC: A Systematic Review and Meta-Analysis. ASCP Annual Meeting, Boston, October 31-November 3, 2012.
115. Schmidt RL, Howard K, Hall BJ, and Layfield LJ. The Comparative Effectiveness of FNA-Sampling Policies: A Simulation Study. ASCP National Meeting, Boston, October 31-November 3, 2012.
116. Schmidt RL, Factor RE, Witt BJ and Layfield LJ. A Survey of Study Quality in Diagnostic Accuracy Studies of FNAC: Risk of Bias and Study Comparability. ASCP Annual Meeting, Boston, MA, October 31-November 3, 2012.
117. Bastien RL, Wallander ML, Vaughn CP, Crockett DK, Layfield LJ, Samowitz WS, Bernard PS. Analysis of Two Next Generation Sequencing Cancer Panels. AMP 2012 Annual Meeting on Genomic Medicine, Long Beach, CA, October 25-27, 2012.
118. Huffman BM, Esebua M, Layfield LJ, Witt BL, Schmidt RL. Risk stratification using morphological features in endoscopic- ultrasonography guided fine needle aspiration of pancreatic ductal adenocarcinoma . ASCP Annual Meeting, Chicago, IL. September 2013
119. Ewing E, Layfield LJ, Joshi CL, Travis MD. Relationship Between Frequency of False-Negative Diagnoses and Lymph Node Size and Percentage of Nodal Replacement by Metastases and Axillary Lymph Nodes Undergoing FNA in Breast Cancer Patients. USCAP Spring Meeting, Boston, MA, March 21-27, 2015.
120. Layfield LJ, Esebua M, Schmidt RL, Witt B. Malignancy Risk Associated with the EUS-FNA Diagnostic Categories “Non Diagnostic”, Benign”, “Atypical”, “Suspicious for Malignancy” and “Malignant” for Lymph Node. USCAP Spring Meeting, Boston, MA, March 21-27, 2015.
121. Layfield LJ, Schmidt RL, Chadwick BE, Esebua M, Witt BL. Interobserver Reproducibility and Agreement with Original Diagnosis in the Categories “Atypical” and “Suspicious for Malignancy” in Bile and Pancreatic Duct Brushings. USCAP Spring Meeting, Boston, MA, March 21-27, 2015.

1. Layfield LJ, The Papanicolaou Society of Cytopathology Guidelines on respiratory cytology samples in advance of recommendations. 39th European Congress of Cytology Milan, Sept 20, 2015
2. Layfield LJ, Rapid on site evaluation: Symposium 2 Respiratory: New prospective for lung cytology. 39th European Congress of Cytology Milan, Sept. 21, 2015.
3. Layfield, LJ. Fine Needle Aspiration of solid and cystic pancreatic lesions. 6th Annual Papanicolaou Tutorial on Updated Diagnostic Cytopathology. New York, July 23, 2015.
4. Baloch Z, Geiginger K, Layfield, LJ. The Papanicolaou Society of Cytopathology Guidelines on Respiratory Cytology: In advance of recommendations. ASCP Annual Meeting Long Beach, CA October 28, 2015.
5. Layfield LJ, Zarka M. The Papanicolaou Society of Cytopathology Guidelines on Respiratory Cytology in advance of recommendations American Society of Cytopathology. Annual Meeting Chicago, IL November 14, 2015.
6. Layfield LJ. Quality Assurance of Anatomic Pathology Diagnoses: Comparison of Alternate Approaches and Detection of Diagnostic Error. United States & Canadian Academy of Pathology 105th Annual Meeting. Seattle, WA, March 12-March 18 2015.
7. Layfield LJ, Hammer RD, Frazier SR, Esebua M, Bivin WW, Laziuk K, Nguyen VT, Johannesen E, Schmidt RL. Impact of Consensus Conference Review on Diagnostic Disagreements in the Evaluation of Cervical Biopsies. USCAP 106th Annual Meeting, San Antonio, TX, March 4-10, 2017.
8. Layfield LJ, Long T, Schmidt RL, Esebua M, Frazier SR, Giorgadze T. Interobserver Reproducibility of the Paris System for Reporting Urinary Cytology. USCAP 106th Annual Meeting, San Antonio, TX, March 4-10, 2017.
9. Esebua M, Kumar SR, Layfield LJ. Testis Specific Y-Like Gene-5(Tspyl-5) a Potential Biomarker to Stratify Tumor Phenotype in Prostate Cancer Patients. USCAP 106th Annual Meeting, San Antonio, TX, March 4-10, 2017.
10. Miller JA, An D, Fadda G, Phanichkul TE, Rao RA, Shafique K, Song S, Viswanathan K, Wiles A, Ali Sz, Baloch Z, Barkan GA, Kohlovu I, Layfield L, Etal. Diagnostic Accuracy, Risk of Neoplasm, and Risk of Malignancy for Common Salivary Gland Carcinomas on Fine Needle Aspiration: A Multi Institutional Study, USCAP 107th Annual Meeting Vancouver BC Canada March 20, 2018.
11. Layfield LJ, Baloch Z, Hirschowitz S, Rossi E. Impact on Clinical Follow-up of the Milan System for Salivary Gland Cytology: A Comparison with a Traditional Diagnostic Classification. USCAP 107th Annual Meeting. Vancouver BC Canada March 20, 2018.
12. Layfield LJ, Esebua M, Dodd L, Giorgadze, Schmidt RL. The Papanicolaon Society of Cytopathology Guidelines for Respiratory Cytology: Reproducibility of Categories Among Observers. USCAP 107th Annual Meeting. Vancouver BC Canada, March 20 2018.
13. Layfield LJ, Hammer RD, White S, Schmidt RL. Utilization of Next Generation Sequencing vs Sequential Individual Testing for Therapeutically Important Mutations in Pulmonary Adenocarcinoma: A Cost Effectiveness Study. USCAP 107th Annual Meeting, Vancouver BC Canada March 21, 2018.
14. Cao, Z, Esebua M, Rawlings A, Layfield L. Mast Cell Infiltration and Activation in the Gallbladder Wall: Implications for the Pathogenesis of Functional Gallbladder Disorder in Adult Patients USCAP 107th Annual Meeting Vancouver BC Canada March 21, 2018.
15. De La Sancha C, Cramer H, Wu HH, Layfield LJ. Bile Duct Brushing Cytology: A Large, singleinstitutional Retrospective Review with an Emphasis on Sensitivity, Specificity and Positive Predictive Value. USCAP Annual meeting. National Harbor, Maryland. March 16-21, 2019.
16. Layfield LJ, Crim JR, Schmidt RL. Pathology Assessment of Hip Arthroplasty specimens: An important quality assurance procedure. USCAP Annual Meeting. National Harbor, Maryland. March 16-21, 2019. Abstract 250.
17. Maleki Z, Muller S, Layfield LJ, Rekhtman, N, Pantanowitz, L. Scleroging Pneumocytoma of Lung: Cyto Morphologic Findings and Immunoprofile of a Rare Entity. USCAP Annual Meeting. National Harbor, Maryland. March 16-21, 2019. Abstract 1748.
18. Layfield LJ, Pearson L, Walker BS, White SK, Schmidt RL. Diagnostic Accuracy of Fine-Needle Aspiration Cytology for Discrimination of Sqummous Cell Carcinoma from Adenocarcinoma in Pulmonary Cytology Samples: A systemic reiew and meta-analysis. USCAP Annual Meeting. National Harbor, Maryland. March 16-21, 2019. Abstract 247.
19. Layfield LJ, Eyehan M, Sun L, Schmidt RL. Cytomorphologic criteria for separation of Pulmonary Adenocarcinomas from Squamous cell carcinomas: A linear Regression Analysis. USCAP Annual Meeting. National Harbor, Maryland. March 16-21, 2019. Abstract 249.

**B. Editorials, position or background papers:**

1. Ulich TR, Layfield LJ, Brambilla C. et al: Letter to the Editor. Arch Pathol Lab Med 109:1061, 1985.

2. Glasgow BJ, Layfield LJ, Anders KH: Mycobacterium Avium-Intracellulare and Adrenal Insufficiency in AIDS. Human Path. 19:245, 1988.

3. Layfield LJ.: Editorial: Can Fine-Needle Aspiration Replace Open Biopsy in the Diagnosis of Palpable Breast Lesions? AJCP August 1992.

4. Layfield LJ, Guiliano AE: Authors reply: Use of Aspiration Cytology and Frozen Section Examination for Management of Benign and Malignant Thyroid Nodules. Cancer 1992.

5. Layfield LJ: Book Review: Breast Cytology in Clinical Practice by Catania S. and Ciatto S. Reviewed in Annals of Surgery.

6. Cramer H, Layfield L, Lampe H: Letter to Editor in Response to "Fine Needle Aspirates of Salivary Glands: Its Utility and Tissue Effects. Ann Otol. Rhinol Laryngol 102:483-484, 1993.

7. Dodd, LG, Layfield LJ. Reply: Cardiac Myxoma immunohistochemistry: Value of CD34, CD31, and factor XIIIa staining. Diagn Cytopathol 15:455-456, 1996.

8. Layfield LJ, Dodd LG. Cytologic Findings in a Case of Postirradiation Angiosarcoma of the Breast. Acta Cytol 41:612-614, 1997.

9. Dodd L, Layfield LJ: Letter to Editor in Response to Dysplastic Tubular Epithelium in "Normal" Kidney Associated with Renal Cell Carcinoma. Am J Surg Pathol Nov;19(11):1335-1337, 1995.

10. Akhtar M, Layfield LJ: Editorial Comment: Mimics of Pilomatrixoma in Fine-Needle Aspirates. Diag Cytopathol (In press).

1. Layfield, LJ, Mooney, E. Specimen adequacy in FNAB of the breast. (Letter to the editor) AJCP 109:494, 1998
2. Layfield LJ. Ductal carcinoma in situ of the breast. Hum Pathol 29:1329-1332, 1998.
3. Layfield LJ, Goldstein NS. Her-2/Neu evaluation methodologies. Are we measuring the correct marker? Mod Pathol (in press)
4. Layfield LJ. Fine-needle aspiration cytology: An accurate technique for the investigation of musculoskeletal lesions. Lab Medica International 18:18-20; 2001.
5. Layfield LJ, Emerson LE. Hepatic bile duct cystadenoma: a case report and review of the literature. Associated Regional and University Pathologists Electronic Journal, Sept 2002
6. Layfield LJ, Goldstein N, Perkinson KR, Proia AD. Letter to the Editor: Inter-laboratory variation in results from immunohistochemical assessment of estrogen receptor status. The Breast Journal 9:257-259, 2003.
7. Zubair B, Layfield LJ. Quest for a uniform cyto-diagnostic approach to thyroid aspirates: a consensus proposal.
8. Layfield LJ. Pancreatic Cytopathology: Past, Present and Future. The ASC Bulletin 2012;49 (6): 131-136.
9. Layfield LJ. Presidential Message for Focus. Focus 2012;12 (2): 1 and 3.

**C. Invited Papers, Lectures, and Presentations:**

1. Ljung BM, Layfield LJ: Fine Needle Aspiration of Breast Lesions. 35th Annual Meeting California Society of Pathologists. San Francisco, California, 1982.

 2. Ljung BM, Layfield LJ: Fine Needle Aspiration of Breast Lesions. 36th Annual California Society of Pathologists, Los Angeles, California. December 1983.

 3. Weisman J, Ljung BM, Layfield LJ: Fine Needle Aspiration of Thyroid and Breast Lesions. New York University Post Graduate Medical Program. November 1985.

 4. Layfield LJ: Fine Needle Aspiration of Salivary Gland Lesions. USC-LACMC Grand Rounds, March 1987.

 5. Layfield LJ: Fine Needle Aspiration of Salivary Gland Lesions. Los Angeles County Pathology Society 1986.

 6. Layfield LJ: Fine Needle Aspiration of Breast Lesions. 23rd National Conference on Breast Cancer, Los Angeles, California. February 29-March 4, 1988.

 7. Layfield LJ: Fine Needle Aspiration of Breast Lesions. U.S.C. - L.A.C.M.C. Grand Rounds, March 1988.

 8. Layfield LJ: Fine Needle Aspiration in Ophthalmologic Practice-Jules Stein Ocular Course, May 20, 1988.

 9. Layfield LJ: Biopsy Techniques in Surgical Oncology. "Living with Cancer" Support group. Jonsson Multidisciplinary Oncology Clinic, September. 19, 1988.

10. Layfield LJ: Fine Needle Aspiration Cytology in the Diagnosis of Mammary Lesions. Continuing Education May 18, 1989, St. Joseph's Medical Center, Burbank.

11. Layfield LJ: Fine Needle Aspiration of the Breast: Pitfalls and Promise. Current Concepts in Surgical Pathology. Stanford University, September 21, 1989

12. Layfield LJ: Pediatric Pathology. Grand Rounds. Department of Pediatrics. UCLA, August 29, 1989.

13. Layfield LJ: Cytology in Urologic Practice. Grand Rounds. Department of Urology. UCLA-Harbor Medical Center. September 1989.

14. Layfield LJ: Fine Needle Aspiration Cytology in Clinical Practive. California Medical Association Meeting, February, 1990.

15. Layfield LJ: Fine Needle Aspiration Cytology in the Management of Primary Bone Neoplasms. American Society of Cytology/Annenberg Center Teleconferencing, March 27, 1990.

16. Layfield LJ: Fine Needle Aspiration of Sarcoma and Related Lesions. California Association of Cytotechnologists, Spring Seminar, April 7, 1990.

17. Layfield LJ: Fine Needle Aspiration of the Breast. Pathology Seminar Series. UCI, September 20, 1990.

18. Layfield LJ: FNAB of Breast. The First Annual Iowa Cytology Course. May 3 & 4, 1991, Iowa City, Iowa.

19. Layfield LJ: FNAB of Salivary Glands. The First Annual Iowa Cytology Course. May 3 & 4, 1991, Iowa City, Iowa.

20. Layfield LJ: FNAB of Breast, FNAB of Head and Neck Lesions and FNAB of Prostate. Cytology Review Course, May 31 through June 3, 1991, Columbus, Ohio.

21. Layfield LJ: FNAB of Breast and FNAB of Salivary Gland Lesions. ASCP Review Course, Long Beach, June 15-16, 1991.

22. Layfield LJ: Problems in the Cytologic Diagnosis of Salivary Gland Lesions. American Society of Cytology 39th Annual Scientific Meeting November 5-10, 1991, Los Angeles, California.

23. Layfield LJ: Pulmonary Cytopathology. The Second Annual Iowa Cytology Course. May 1+2, 1992, Iowa City, Iowa.

24. Layfield LJ: FNAB of Thyroid and FNAB of Kidney. Cytology Review Course, May 31, 1992. Indianapolis, Indiana.

25. Layfield LJ: Aspiration Cytology Findings in Clear Cell Containing Lesions of the Parotid Gland. ASCP Check Sample 1992.

26. Layfield LJ: FNA Diagnosis of Thyroid Nodule. North Carolina Medical Society, 1993 Annual Meeting, Pinehurst, NC.

27. Silverman JF, Frable WJ, Layfield LJ, Sneige N, Kardos TF: Controversies, Problems and Diagnostic Solutions in FNA Cytology. ASCP Spring Meeting 1993.

28. Layfield LJ: FNA of the Salivary Gland. University of Texas, Teleconference Network of Texas. 1994 series.

29. Layfield LJ and Kerns BJ: Identification of Estrogen Receptors and Progesterone Receptors. Surgical Pathology Symposium 1994, Lutheran General Hospital, Park Ridge, IL, May 26, 1994.

30. Layfield LJ: FNA of Thyroid Lesions. Osler Institute Cytology Review Course, May 30, 1994.

31. Layfield LJ: FNA of Kidney Lesions. Osler Institute Cytology Review Course, May 30, 1994.

32. Layfield LJ: Aspiration Cytopathology of Non-Metastatic Bone Lesions. In Special Course. Bedrossian CWM. Cytopathology of the Bone and Soft Tissues. ASC 42nd Annual Scientific Meeting, Chicago, IL 1994.

33. Cramer H, Layfield LJ, Lampe HB: Fine Needle Aspiration of Salivary Gland Lesions Workshop. ASC 42nd Annual Scientific Meeting, Chicago, IL 1994.

34. Layfield LJ. Diagnostic Approaches in Breast Cancer: A Cost Comparison Study. New Challenges in Breast Cancer Clinical Trials. Philadelphia, PA, November 16, 1994.

35. Layfield LJ. Immunopathology Rounds. Immunohistochemistry as an Aid in the Differential Diagnosis of Renal Neoplasms. ASCP Spring Meeting, Orlando, FL, 1994.

36. Layfield LJ. Clinical and Practical Applications of Image Cytometry. ASCP Spring Meeting, Orlando FL 1994.

37. Fine Needle Aspiration of Salivary Gland Lesions, ASC Workshop, 43rd Annual Meeting, 1995, New York, NY

38. ASCP Teleconference, FNA of Salivary Gland Lesions, October 1995.

39. Layfield LJ, Akhtar M. Telepathology Case Presentation Symposium, Riyadh, Saudi Arabia, November 1995.

40. Layfield LJ, Silverman J. Difficult Differential Diagnoses in Aspiration Cytology. South Bay Society of Pathology, Monterey, CA, May 1996.

41. Layfield LJ. Update on Diagnostic and Prognostic Markers in Surgical Pathology. Western North Carolina Oncology Society, Fall-Winter Meeting, Asheville, NC, October, 1996.

42. Scher RL, Koch WM, Layfield LJ, Wenig B. Beyond Basic Histology: Advances in Diagnostic Head and Neck Pathology. American Academy of Otolaryngology-Head and Neck Surgery, 100th Annual Meeting, Washington, DC, October 1996.

43. Akhtar M, Pohar-Marinsgk Z, Layfield LJ, Mourad WA, Fanning TV. Childhood Tumors, 24th European Congress of Cytology, Ljubljana, Solvenia, September 25, 1997.

44. Katz RL et al. Diagnostic Unknown Slide Seminar, 45th Annual Scientific Meeting. American Society of Cytopathology, Boston, November 1997.

45. Cramer H, Layfield LJ, Lampe HB. Fine Needle Aspiration of Salivary Glands Workshop, ASC 46th Annual Scientific Meeting, Nashville Tenn, 1998.

46. Layfield LJ. Fine Needle Aspiration of Salivary Gland Lesions, North American Society of Head and Neck Pathology, March 20, 1999, San Francisco, California.

47. Layfield LJ. Head and Neck Cytopathology, Spring Meeting Mountain States Association of Cytotechnologists, Salt Lake City, UT, April 17, 1999.

48. Pisharodi L, Layfield LJ. Fine-needle aspiration of diagnostically difficult lesions in the head and neck. ASCP Spring 1999 Meeting, Orlando, Florida, April 11.

1. Layfield LJ. Head and neck cytopathology seminar, Spring Meeting, Pacific Northwest Society of Pathologist, Whistler, Canada, April 23-25, 1999.
2. Layfield LJ. Fine needle aspiration of head and neck lesions, Los Angeles Society of Pathology, Los Angeles, September 2000.
3. Layfield LJ. Cystic lesions of the head and neck, 27th European Congress of Cytology, Lillehammer, Norway, September 16-19, 2000.
4. Fanning T, Layfield LJ, Pohar-Marinsek Z, Vielh P, Walaas L. Pediatric Pathology, 27th European Congress of Cytology, Lillehammer, Norway, September 16-19, 2000.
5. Masood S, Sneige N, Layfield LJ, Ljung BM, Update in breast cytology, ASCP Fall Meeting, San Diego, September 2000.
6. Masood S, Kempson R, Layfield LJ, Press MF, Bloom KJ. Breast pathology in the new millennium, XXIII International Congress of the International Academy of Pathology, Nagoya, Japan, October 20, 2000.
7. Pitman MB, Faquin W, Wakely P, Layfield LJ, Frable WJ. Diagnostic challenges in cytopathology of the head and neck. USCAP Atlanta, March 5, 2001.
8. Gupta D, Swaminathan R, Layfield LJ. Correlation of Papillary Lesions of the Breast Diagnosed by Image-Guided Core Biopsy with Follow-up Excisional Biopsy. USCAP Atlanta, March 5, 2001.
9. Masood S, Layfield LJ. Application of Ancillary Testing in Breast Pathology. 2003 ASCP Annual Meeting. Sept. 18-21, 2003. New Orleans, CA.
10. Layfield LJ. Fine-Needle Aspiration Biopsy: A valuable tool for the diagnosis of musculoskeletal tumors. Africa Calls Teleconference Series. Oct 21, 2003.
11. Cramer H, Layfield LJ, Chappo JM, Dewitt J. Cytopathology of the pancreas. ASC Annual Meeting, Orlando, Florida. Nov. 7-12, 2003.
12. Layfield LJ. Neoplasms and precursor lesions of the biliary tract and pancreas. A cytopathologist’s perspective. ASC Teleconference. July 27, 2004.
13. Layfield LJ. Molecular diagnostic testing in clinical practice. California Association for Medical Laboratory Technology. 2004 Annual Meeting, Pasadena, CA, October 4, 2004.
14. Cramer H, Layfield LJ, Chappo JM, Dewitt J. Cytopathology of the pancreas. ASC Annual Meeting, Chicago, 2004.
15. Layfield LJ. Molecular diagnostics from research laboratory to clinical practice. Pathology Grand Rounds, University of Indiana, June 1, 2005.
16. Layfield LJ. Intraductal papillary mucinous neoplasms of the pancreas. Department of Surgery Grand Rounds, University of Indiana, Jun 1, 2005.
17. Layfield LJ and Baloch Z. Moderators, Thyroid Aspiration Cytology: The Papanicolaou Society of Cytopathology Consensus Recommendations. USCAP Companion Society Scientific Session, Atlanta, Georgia, February 11, 2006.
18. Layfield LJ. “Cytopathology of Bone Lesions” and “Cytopathology and Morphologic Diagnosis of GISTs”. CME Symposium Kuwait, Kuwait City, Kuwait, February 20-22, 2006.
19. Cramer H, Layfield LJ, Chappo JM, Dewitt J. Cytopathology of the pancreas. ASC Annual Meeting, San Diego, CA, 2005.
20. Layfield LJ. Cytology of Thyroid Lesions. Park City Pathology Conference, Park City, UT, February 2006.
21. Layfield LJ. Intraductal Papillary Mucinous Neoplasms: Biologic Concepts and Clinical Implications. Park City Pathology Conference, Park City, UT, February 2006.
22. Layfield LJ. Papanicolaou Society Recommendations for FNA of the thyroid gland. Moderator – USCAP Spring Meeting, Atlanta, GA, Spring 2006.
23. Layfield LJ. A comparison of FISH, quantitative monoplexing and traditional blotting methods used with formalin-fixed, paraffin-embedded neuroblastomas. The G.O.T. Summit, World Trade Center, Boston, MA, April 24-25, 2006.
24. Layfield LJ. ENT FNA Cytopathology. The Montebello Conference, Lilliehammer, Norway, June 17-20, 2006.
25. Layfield LJ. Chairman Committee VI, Post FNA Strategies. NCI Thyroid FNA State of the Science Conference, Bethesda, MD, October 22-23, 2007.
26. Layfield LJ. Update in Breast Pathology. ARUP Park City Surgical Pathology Seminar, Park City, UT, Jan 29, 2008.
27. Layfield LJ. Basaloid and Myoepithelial Proliferations of the Salivary Glands. Cytopathology for the Practicing Pathologist. The Grand America Hotel, Salt Lake City, UT, Feb 14-17, 2008.
28. Layfield LJ. Non-papillary Follicular Lesions of the Thyroid. Cytopathology for the Practicing Pathologist. The Grand America Hotel, Salt Lake City, UT, Feb 14-17, 2008.
29. Layfield LJ. Soft Tissue Tumors. Cytopathology for the Practicing Pathologist. The Grand America Hotel, Salt Lake City, UT, Feb 14-17, 2008.
30. Layfield LJ. Fine-Needle Aspiration Cytopathology of Muskuloskeletal Lesions. American Society for Clinical Pathology. ASCP Teleconferences. Salt Lake City, UT. Apr 24, 2008.
31. Layfield LJ. Diagnostic Categories, Criteria and Controversies in Thyroid Fine-Needle Aspiration Cytology**.** 34th European Congress of Cytology. Rovaniemi, Finland. June 15-18, 2008.
32. Layfield LJ. Diagnostic Categories, Criteria and Controversies in Thyroid Fine-Needle Aspiration Cytology**.** New York NYSSPath. Syracuse, New York. May 3, 2008.
33. Layfield LJ. Diagnostic Categories, Criteria and Controversies in Thyroid Fine-Needle Aspiration Cytology**.** Utah Society of Pathologists. Salt Lake City, Utah. September 13, 2008.
34. Layfield LJ. A Practical Approach to the Cytologic Diagnosis of Head and Neck Lesions. 35th European Congress of Cytology. Lisbon, Portugal. September 28, 2009.
35. Layfield LJ, Cibas E, Baloch Z. National Cancer Institute Thyroid FNA State of the Science Conference: Common Sense and Controversies. 35th European Congress of Cytology. Lisbon, Portugal. September 27-30, 2009.
36. Layfield LJ. Soft Tissue Lesions. 17th International Congress of Cytology. Edinburgh, Scotland. May 16-20, 2010.
37. Layfield LJ. Diagnostically Difficult Lesions of the Neck, Base of Skull and Paranasal Sinuses. 36th European Congress of Cytology. Istanbul, Turkey. September 22-25, 2011.
38. Layfield LJ. Cytopathology of Bone and Soft Tissue Lesions International Academy of Pathology. Capetown, South Africa October 3-5, 2012.
39. Layfield LJ. Cytomorphology of Bile Duct Lesions Diagnostic Criteria with Emphasis on Pit Falls ASCP Annual Meeting 2012 Las Vegas, NV November 4, 2012.
40. Layfield LJ. Cytomorphology of Bile Duct Lesions. Diagnostic Criteria with Emphasis on Diagnostic Pitfalls. USCAP Annual Meeting (ASC Scientific Session) Baltimore, MD March 2013.
41. Layfield LJ. Ancillary Testing: An Aid to Diagnosis in Pancreaticobiliary Cytology. 18th International Congress of Cytology Paris, France May 26-30 2013.
42. Layfield LJ. Video microscopic Tutorial 07 18th International Congress of Cytology Paris, France May 26-30 2013.
43. Layfield LJ. Patient Safety and Critical Values in Cytology. 18th International Congress of Cytology Paris, France May 26-30 2013.
44. Layfield LJ. Bridging the Gap: Cytopathology at the Threshold of Personalized of Medicine. 4th Annual Papaniculaor Tutorial Updated Diagnostic Cytopathology. July 27, 2013 New York, NY.
45. Layfield LJ. Bile Duct Brushing, 4th Annual Papanicolaou Tutorial: Updated Diagnostic Cytopathology July 27, 2013, New York, NY.
46. Pittman MB, Layfield LJ. Papanicolaou Society of Cytopathology Guidelines for Pancreaticobiliary Cytology XXXth Congress of the IAP October 5-10, 2014 Bangkok Thailand.
47. Layfield LJ. Approach to Pancreaticobiliary Cytology: A Step Towards Recommendations and Guidelines: Sponsored by the Papanicolaou Society of Cytopathology. ASC Annual Scientific Meeting. November 14-17, 2014Dallas, TX.
48. Layfield LJ. Cytologic Interpretation of Pancreatic and Bile Duct Brushings: Diagnostic Criteria and Challenges. November 14-17, 2014 Dallas, TX.
49. Layfield, LJ. Exfoliative Cytology of the Extrahepatic Biliary Tract: Morphologic Assessment and Ancillary Testing. American Society of Cytopathology Webinars. January 28, 2014.
50. Layfield LJ. Update of P.S.C. Guidelines for Pancreaticobiliary Lesions. 6th Annual Papanicolaou Tutorial on Updated Diagnostics Cytopathology July 23-24, 2015, New York, NY.
51. Layfield LJ. Fine Needles Aspiration of Solid and Cystic Pancreatic Lesions. 6th Annual Papanicolaou Tutorial on Updated Diagnostics Cytopathology July 23-24, 2015, New York, NY.
52. Layfield LJ. The Papanicolaou Society of Cytopathology Guidelines on Respiratory Cytology: In Advance of Recommendations. 39th European Congress of Cytology. September 20, 2015, Milan Italy
53. Layfield, LJ. Pancreatic Cytology and the Papanicolaou Society of Cytopathology Guidelines: Impact and Issues. American Society of Cytopathology Webinars. March 15, 2106
54. Layfield LJ, Baloch Z. Cytologic Diagnosis “Atypical” Criteria and Controversies. European Congress of Cytology. October 3 2016, Liverpool, United Kingdom
55. Layfield LJ. Pulmonary Cytology: A Clinical Approach to Reporting Terminology. 40th European Congress of Cytology. October 3 2016, Liverpool, United Kingdom.
56. Layfield LJ. The Papanicolaou Society of Cytology Classification for Pulmonary Specimens. The 10th Asia Pacific International Academy of Pathology (APIAP) Congress. April 26, 2017, Bali, Indonesia.
57. Layfield LJ, Pitman MB. Papanicolaou Society of Cytopathology Pancreaticobiliary Guidelines: Update on Pancreatic Cystic Lesions and Duct Brushing Specimens. ASC 65th Annual Scientific Meeting. November 10-13, 2017 Phoenix, AZ.
58. Layfield LJ, Field A. Cytology Symposium on Respiratory Thyroid and Pacreaticobiliary Cytology May 28-30, 2018 Hanoi Vietnam
59. Layfield LJ. Multimodal Approach to Cytopathology Diagnosis: More Norm than a Rarity. Pancreaticobiliary 41st European Congress of Cytology June 10, 2018 Madrid, Spain
60. Layfield LJ. Standardized Terminology and Nomenclature for Respiratory Cytology: The Papanicolaou Society of Cytopathology Guidelines for Respiratory Cytology Samples: Why Six Categories? 41st European Congress of Cytology. June 11, 2018 Madrid, Spain
61. Layfield LJ, Standardized Terminology and Nomenclature for Respiratory Cytology: The Papanicolaou Society of Cytopathology Guidelines: 41st European Congress of Cytology June 12, 2018 Madrid, Spain

**Editorial Activities:**

1. Reviewer for Cancer

2. Reviewer for Journal of Urology

3. Editorial Board/Diagnostic Cytopathology

4. Editorial Board Cancer/Cytopathology

5. Reviewer Journal of Surgical Oncology

1. Editorial Board/The Breast Journal
2. Reviewer, Modern Pathology

**History of Contract and Grant Support:**

**1. Title:** Mammographic Guided FNA of Breast Lesions

 **Principal Investigator:** Lester J. Layfield, M.D.

 **Source:** UCLA Cancer Center

 **Dates of Project:** 10/01/1988 to 09/30/1989

 **Percent Effort:** 10%

 **Annual Direct Costs:** $7,000

**2. Title:**  Hyperthermia and Perfusion Effects in Cancer

Therapy

 **Principal Investigator:** Mark Dewhirst, M.D.

 **Project #:** 2P01 CA42745-09 A1

 **Source:** NIH/NCI

 **Dates of Project:** 10/10/1995 to 07/31/2000

 **Percent Effort:** 5%
 **Annual Direct Costs:** $1,767,453

**3. Title:** Registry for Breast Cancer Studies

 **Principal Investigator:** Sandra Buys, M.D.

 **Project #:** 59001560

 **Source:** NCI

 **Dates of Project:** 12/01/2003 to 11/30/2005

 **Percent Effort:** 5%

 **Annual Direct Costs:** $448,250

**4. Title:** A Phase II Surgical Trial of Intralesional Resection

of Stage 1A Chondrosarcomas of Bone

 **Principal Investigator:** R. Lor Randall, M.D.

 **Project #:** S0344

 **Percent Effort:** 5%

**5. Title:** Molecular Diagnostic Testing in Anatomic

Pathology

 **Principal Investigators:** Lester J. Layfield, M.D.

 Joseph A. Holden, M.D.

 **Project #:** N/A

 **Source:** ARUP Institute

 **Dates of Project:** June 2004 to July 2005

 **Percent Effort:** 5%

 **Annual Direct Costs:** $91,040 first year

**6. Title:** Roche/RAPID Tumor Board Workflow

 Software App

 **Principal Investigators:** Jerry C. Parker, Ph.D.

 **Co-Investigators:**  Lester Layfield, M.D.

 Richard Hammer, M.D.

 Kevin Staveley-O’Carroll, M.D.

 Talissa Altes, M.D.

 Robert Zitsch III, M.D.

 **Project #:** 00059506

 **Source:** Roche

 **Dates of Project:** May 2017 to December 2017

 **Percent Effort:** 5%

 **Annual Direct Costs:** $491,136

**Professional awards and special recognitions:**

 American Cancer Society Junior Fellowship, 1982

 Honored Faculty Award, Osler Institute, June 1999

 America’s Top Physicians, 2003, 2007

 Best Doctors, 2005-2006

 University of Utah, Department of Pathology, Best Teaching Award, 2010

Ward Burdick Award for Distinguished Service to Pathology, October 2011

**Organizations and participations:**

International Academy of Cytology

American Society of Cytopathology Panel for Thyroid FNA Criteria and Recommendations

NCI Conference on Aspiration Cytology of the Breast; Chairman, Recommendations Subcommittee, September, 1996

Secretary International Society of Breast Pathology (2000-2002)

The Arthur Purdy Stout Society of Surgical Pathologists

Member, Cytology Test Committee American Board of Pathology 2000-2006

American Society of Cytopathology, Standards Committee Chair, 2003-2006

Papanicolaou Society, Practice Guidelines Committee Chair, 2000-2004

Papanicolaou Society, Education Committee Chair, 2005-2007

Papanicolaou Society, President Elect 2009-2011

Papanicolaou Society, President 2011-2013

**Past Teaching Experience:**

Classroom, Seminar or Teaching Laboratory:

UCLA:

 1984-1990 Medical School Curriculum in Pathology

 1984-1990 Housestaff teaching in Cytopathology

 1984-1990 Housestaff teaching in Surgical Pathology

 1985-1990 Clinical teaching conference in Pediatrics

 1985-1990 Clinical teaching conference in Urology

University of Iowa:

 1990-1992 Cytology Core Course

 Didactic teaching, residents in cytology

University of Utah:

 2002-present Weekly lectures in Histopathology, pathology residents

 Monthly case conference presentations, pathology residents

 Student laboratory, pathology

**Past Clinical Experience:**

UCLA:

 1983-1990 Fine Needle Aspiration Service

 1983-1990 Surgical Pathology Sign-Out, 1 week/month

University of Iowa:

 1990-1992 Weekly sign-out, Cytology

 Monthly sign-out, Surgical Pathology

Duke University: Surgical Pathology Sign-Out (Head of Surgical Pathology)

 1992-1997 Fine-Needle Aspiration Service

**Past Academic and Administrative Activities:**

UCLA:

 Space Committee, 1983-1984

 Tissue Committee, 1983-1984

 Intern-Resident Committee, 1983-1990

 Bowyer Oncology Advisory Committee, 1984-1990