

## Curriculum Vitae - 10/09

**Name:** THEODORE R. MILLER, M.D.

**Position:** Professor of Clinical Hospital Pathology, Step 7  
Department of Pathology  
School of Medicine

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### **EDUCATION:**

1961-65	Georgetown College, Georgetown, KY	BS	Biology
1965-69	Univ. of Louisville, Louisville, KY	MD	Medicine
1969-70	Univ. of California, San Francisco, CA	Intern	Pathology
1970-73	Univ. of Louisville, Louisville, KY	Resident	Pathology
1973-74	Univ. of California, San Francisco, CA	Chief Resident	Pathology
1979 (Oct - Dec)	Harvard Medical School and Massachusetts General Hospital	Fellow	Gyn. Pathology

### **LICENSES, CERTIFICATIONS, ETC.:**

1971	Medical license, Kentucky
1972	Medical license, California
1975	Certified, American Board of Pathology (Anatomic Pathology)
1998	Re-certified, American Board of Pathology (Anatomic Pathology)

### **PRINCIPAL POSITIONS HELD:**

1970-1972	Assistant Instructor of Pathology University of Louisville School of Medicine, Kentucky
1972-1973	Instructor of Pathology University of Louisville School of Medicine, Kentucky
1975-1977	Assistant Research Pathologist University of California, San Francisco
1977-1983	Assistant Clinical Professor, Department of Pathology School of Medicine, University of California, San Francisco
1977-1994	Director, Cytology Service, Department of Pathology School of Medicine, University of California, San Francisco

1983-1987 Associate Clinical Professor, Department of Pathology  
School of Medicine, University of California, San Francisco  
1987-1988 Clinical Professor, Department of Pathology, School of Medicine, UCSF  
1987-1994 Vice Chairman, Department of Pathology, School of Medicine, UCSF  
1988-present Professor of Clinical Anatomic Pathology, School of Medicine, UCSF  
1992-1993 Acting Chairman, Department of Pathology, School of Medicine, UCSF  
1994-1999 Interim Chair, Department of Pathology, School of Medicine, UCSF  
2000-present Director, Cytology Service, Department of Pathology

**ANCILLARY POSITIONS HELD CONCURRENTLY:**

1977-1996 Naval Regional Med. Ctr., Oakland, CA Consultant in Pathology  
1978-now Veterans Adm. Med. Ctr., San Francisco Consultant in Pathology  
1980-1992 Veterans Adm. Med. Ctr., Martinez, CA Consultant in Pathology

**MILITARY SERVICE:**

1974-1977 Staff Pathologist, Naval Regional Medical Center, Oakland CA  
1974-1975 Assistant Chief of Cytopathology  
1975-1977 Chief of Cytology

**HONORS AND AWARDS:**

1972-73 American Cancer Society Fellowship  
1980 Nominated for Kaiser Teaching Award  
1980 Outstanding Teacher Award, Dept. Ob/Gyn, UCSF  
1981 Outstanding Teacher Award, Dept. Ob/Gyn, UCSF  
1983 Kaiser Teaching Award  
2009 Papanicolaou Award, American Society of Cytopthology

**KEYWORDS/AREAS OF INTEREST:**

Fine needle aspiration biopsy of palpable masses, Gene assay of tumors, teaching of post graduate MDs, consulting to researchers in regard to tumor histology.

**PROFESSIONAL ACTIVITIES**

**CLINICAL**

Director of Service Cytology: I have overseen the running of this division for 21 years.

Vice Chairman, Department of Pathology, School of Medicine UCSF: Directed the daily running of the clinical activities of the department for 7 years.

Acting Chairman, Department of Pathology, School of Medicine UCSF: Oversaw the departmental research and clinical activities during Dr. Bainton's sabbatical (1 year).

Interim Chair, Department of Pathology, School of Medicine UCSF: Directed all aspects of the department for 5 years.

#### SUMMARY OF CLINICAL ACTIVITIES

I assume clinical duties on the cytology service in rotation with the other faculty members of the division i.e. April thru June 2004; of 64 service days I was on 42 days (66%). This percent is basically constant thru out the year. I take night call at Mount Zion 4 nights per month. I am the co-director of the cytology division.

#### **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:**

1977-now	United States and Canadian Academy of Pathology
1977-now	American Society of Cytology
1977-now	South Bay Pathology Society
1980-1985	American Trauma Society
1980-now	California Society of Pathologists
1990-now	Papanicolaou Society of Cytology
1991-now	College of American Pathologists
1993-now	Arthur Purdy Stout Society
1994-1999	Association of Pathology Chairs
1994-1999	Universities Associated for Research and Education in Pathology (UAREP)

#### **Professional Organizational:**

1978	American Society of Cytology (ASC) Committee for Educational Development
1978-80	ASC Committee on New Members
1978-80	ASC Local Arrangements Committee, 27th Annual Scientific Meeting
1986-92	ASC Scientific Advisory Committee
1987-90	ASC Education Committee
1988-91	ASC Director of Workshops
1989-1995	ASC Executive Committee
1992-1995	ASC Scientific Program Director
1993-now	Consultant, International Board of Cytopathology
1994-1999	Pathology Advisor to California Medical Association
1995	Centers for Disease Control and Prevention (CDC), Cytology Education Consortium

1995-2005 College of American Pathologists, Cytopathology Committee  
 1997-2005 College of American Pathologists, Non-Gyn Working Group  
 1995-2000 California Medical Association, Scientific Advisory Panel on Pathology  
 1995-2000 Papanicolaou Society of Cytopathology, Standards of Practice Task Force  
 1995-2000 The International Academy of Cytology, Committee on Continuing Education and Quality Assurance  
 1995-1996 ASC Vice-President  
 1996-1997 ASC President Elect  
 1997-1998 ASC President  
 1999-2000 ASC Nominating Committee, Chair

### **Service To Professional Publications:**

1978-now ARCHIVES OF PATHOLOGY AND LABORATORY MEDICINE, Ad hoc Reviewer  
 1985-now GASTROENTEROLOGY, Ad hoc Reviewer  
 1987-now JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION, Ad hoc Reviewer  
 1987-now DIAGNOSTIC CYTOPATHOLOGY, Ad hoc Reviewer  
 1987-now CYTOMETRY, Ad hoc Reviewer  
 1994-now DIAGNOSTIC CYTOPATHOLOGY, Editorial Board  
 1994-now ACTA CYTOLOGICA, Ad hoc Reviewer  
 1996-now CANCER CYTOPATHOLOGY, Editorial Advisory Board  
 1999-2000 ACTA CYTOLOGICA, Editor, USA

### **UNIVERSITY SERVICE:**

#### **Campus Wide:**

1977-1978 Extended Programs in Medical Education (Advisory Board)  
 1977-1978 Sub-Committee on the Curriculum in Exfoliative Cytology (Chairman)  
 1987-now Ad Hoc Peer Review for Promotions  
 1990-1991 Committee on Rules and Jurisdiction, San Francisco Division, Academic Senate  
 1994-1999 Dean's committee, Veterans Administration Medical Center  
 1994-1999 Executive Medical Board  
 1994-1999 Deans Advisory Board-UCSF Comprehensive Cancer Center  
 1994-1999 Clinical Strategies Committee  
 1994-1995 Tertiary Care Pricing Committee  
 1994-2003 Credentials Committee  
 1997-2000 UCSF Stanford Health Care, Academic Mission Committee  
 1997-2000 UCSF-Stanford Health Care, Finance Committee  
 1998-2000 UCSF-Stanford Health Care, Children's Hematology/Oncology/BMT Executive Committee

**School of Medicine:**

1987-90	General Clinical Research Advisory Committee
1988-91	Executive Board, Clinical Practice Organization
1994-1999	Deans Department Chairs, and Organized Research Unit Directors
1994-1999	Basic Science Chairs Committee
1994-1999	Basic and Clinical Science Chairs and ORU Directors
1994-1999	Board of Directors, Medical Group at UCSF
1996-2000	Dean's Compensation Plan Committee
1997	Chair, Committee for Five-Year Review of UCSF-Mount Zion, Department of Dermatology
1998-1999	Continuing Medical Education Governing Board

**Department of Pathology:**

1979-2000	Resident Selection Committee
1980-now	Faculty Search Committee
1980-2000	Executive Committee
1980-82	Developed computer program for Cytology Service
1981-2000	Anatomic Pathology Committee
1981-1995	Director of service cytology
1987-94	Vice Chairman
1988-2000	Chair, Committee on Fellowships
1988-91	Committee on Academic Status
1994-1999	Interim Chairman
1994-now	QA/QI Committee, Chair-2000
1999-now	Director of service cytology

**PUBLIC SERVICE:**

1986-1991	Board member, Telegraph Hill Neighborhood Center, President 1987-88 (a non-profit, public service organization supported by United Way)
1992-1995	Vestry St. Luke's Episcopal Church San Francisco Ca.
1993-1994	Vice President, Broadway Home Owner's Association
1994-1995	President, Broadway Home Owner's Association
1994-now	Altar Guild St. Luke's Episcopal Church San Francisco Ca.
1998-now	Lay Eucharist Minister St. Luke's Episcopal Church San Francisco Ca.
2000-now	Vestry St. Luke's Episcopal Church, San Francisco Ca.
2000-now	Vice President, Broadway HOA
2002-2004	Senior Warden St. Luke's Church

**SCIENTIFIC AND PROFESSIONAL MEETINGS, INVITED LECTURES, & WORKSHOPS**

1. Panelist, "Diagnostic Cytology Seminar," Annual Meeting, American Society of Cytology, Houston, TX (November, 1977).

2. "Needle Biopsy," American Thyroid Association, Postgraduate Course, San Francisco, CA (November, 1979).
3. "Urinary Tract Cytology," Massachusetts Society of Cytology, Boston, MA (December, 1979).
4. Lecturer: "Fluid Cytopathology," California Society of Pathologists, Annual Meeting, San Diego, CA (December, 1979).
5. "Urinary Tract Cytology," University of Connecticut, Department of Pathology, Farmington, CT (December, 1979).
6. "Diagnosis of Deep-seated Lesions by Thin Needle Aspiration," Recent Advances in Pathology, Continuing Medical Education Course, U.C., San Francisco (May, 1980). Post Graduate Course, Sponsored by UCSF.
7. "Fine Needle Aspiration, Current Management of Common Office Problems," Continuing Medical Education, U.C., San Francisco (September, 1980).
8. "Fine Needle Aspiration in the Diagnosis of Breast Masses," Department of Pathology, University of Louisville, School of Medicine, Louisville, KY (November, 1980).
9. Co-Director (with Abele, J.S.): "Fine Needle Aspiration of Breast and Thyroid," Continuing Medical Education Course, U.C., San Francisco (October, 1981).
10. "Fine Needle Aspiration of Breast and Thyroid," California Medical Association 31st Annual Regional Postgraduate Institute for West Coast Counties, Monterey, CA (October, 1981).
11. "FNA of Thyroid, Lecture and Workshop," Department of Pathology, University of Louisville School of Medicine, Louisville, KY (March, 1982).
12. "Fine Needle Aspiration of Breast and Thyroid," 18th Annual Workshop Seminar, California Association of Cytotechnologists, Sacramento, CA (June, 1982).
13. "Fine Needle Aspiration of Breast, Thyroid, and Selected Body Sites," Extended Programs in Medical Education, Department of Pathology, UCSF, Aspen, CO (August, 1982).
14. "Bay Area Seminars in Cytopathology," Continuing Medical Education Course, Departments of Pathology and Epidemiology and International Health, UCSF (1983).
15. "Fine Needle Aspiration Biopsy," 11th Annual Clinical Conference, AMI - Community Hospital of Santa Cruz (April, 1983).
16. "Histobiology of Neoplasia," Workshop, UCLA-NIH, Keystone, CO (June, 1983).
17. "Third Annual Symposium on Fine Needle Aspiration," Extended Programs in Medical Education, Maui, HI (August, 1983).
18. "Comparative Cytomorphology of Breast Cancer and its Precursors," American Society of Cytology, Annual Meeting, Denver, CO (November, 1983).
19. "Bay Area Seminars in Cytopathology," Continuing Medical Education Course, Departments of Pathology and Epidemiology and International Health, UCSF, (1984).
20. "Histobiology of Neoplasia," Workshop, UCLA-NIH, Keystone, CO (June, 1984).
21. "Fine Needle Aspiration Cytology," Houston Society of Clinical Pathologists, Houston, TX (April, 1984).
22. "Fine Needle Aspiration," Grand Rounds, Riverside Methodist Hospital, Columbus, OH (July, 1984).
23. Workshop, Cytotechnology Program, University of Louisville, KY (July, 1984).
24. Co-Chair: "Fourth Annual Symposium on Fine Needle Aspiration," Department of Pathology (UCSF), Cytology Department, Karolinska Hospital, Stockholm, Sweden (August, 1984).
25. "Fine Needle Aspiration: Breast," Workshop, American Society of Cytology, Atlanta, GA (November, 1984).

26. "Bay Area Seminars in Cytopathology," Continuing Medical Education Course, Departments of Pathology and Epidemiology and International Health, UCSF (1985).
27. "FNA of Thyroid Papillary Carcinoma: Pitfalls," Current Concepts in Surgical Pathology, Stanford, University, Stanford, CA (March 27, 1985).
28. "FNA of Head and Breast Tumors," Current Concepts in Surgical Pathology, Stanford University (March 30, 1985).
29. "Clinical Aspects of Breast FNA," Depart. Rounds, Mayo Clinic, Rochester, MN (April, 1985).
30. "Cytopathology of Breast," Minnesota Society of Cytology, Rochester, MN (April, 1985).
31. "FNA of Breast, Problem Areas," Current Issues in Anatomic Pathology, San Francisco, CA (May 23-25, 1985).
32. Workshop, "Histopathobiology of Neoplasia," Keystone Conference, UCLA (June, 1985).
33. "Fifth Annual Symposium on Fine Needle Aspiration," Department of Pathology (UCSF), Santa Barbara, CA (August, 1985).
34. "FNAB of Subcutaneous Masses," Medical Grand Rounds, Baptist Memorial Hospital, Memphis, TN (September, 1985).
35. "FNA of Thyroid," Memphis Pathology Society (September, 1985).
36. "Comparative Cytopathology of Breast Cancer and Its Precursors," Annual Meeting, American Society of Cytology, New York, NY (November 1985).
37. Panelist, Diagnostic Cytology Seminar, Annual Meeting, American Society of Cytology, New York, NY (November, 1985).
38. "FNA: Thyroid Diagnosis and Techniques," Veterans Administration Hospital, San Diego, CA (February, 1986).
39. "Indications & Technique of Fine Needle Aspiration," Tutorial in Gynecologic Surgery and Anatomy, UCSF (April 7, 1986).
40. "The Role of Fine Needle Aspiration Biopsy in the Diagnosis of Round Cell Tumors," Current Issues in Anatomic Pathology, San Francisco, CA (May 22-23, 1986).
41. "Cytologic Criteria for Papillary Carcinoma of the Thyroid and Diagnostic Pitfalls," American Society of Cytology Cytoteleconference (May 27, 1986)
42. Workshop, "Histopathobiology of Neoplasia," Keystone Conference, UCLA (June, 1986).
43. "Aspiration Cytology of the Lung," Current Concepts in Surgical Pathology, Stanford University, Stanford, CA (June 18-21, 1986).
44. "FNA of the Thyroid I & II"; "FNA of Miscellaneous Body Sites"; and "Discussion of Selected Cases Including Thyroid and Miscellaneous Body Sites," Sixth Annual Symposium on Fine Needle Aspiration (Co-Director), San Francisco, CA (August, 10-16, 1986).
45. "Breast Disease, the Gynecologist's Role," Comprehensive Review Course and Annual Postgraduate Course, San Francisco, CA (October, 1986)
46. Visiting Lecture, "Selected Topics in Needle Aspiration," Northwestern Medical School, Chicago, IL (November 13-14, 1986).
47. "Comparative Cytopathology of Breast Cancer and its Precursors," Annual Meeting, American Association of Cytology, Detroit, MI (November, 1986).
48. "Update of Problem Areas in Fine Needle Aspiration Biopsy," Annual Symposium, California Society of Pathologists, 39th Annual Meeting, San Francisco, CA (December, 1986).
49. "Unusual Breast FNA Cytology," UCSF-Bay Area Seminars in Cytopathology, San Francisco, CA (1987).

50. "FNA of Thyroid and Breast," 7th Annual Meeting, Peninsula Association of Cytology, White Haven, PA (February, 1987).
51. "Fine Needle Aspiration Cytology of the Breast," International Academy of Pathology, Chicago, IL (March, 1987).
52. "Fine Needle Aspiration of Palpable Lesions," Indiana Association of Pathologists, 37th Annual Seminar. Indianapolis, IN (May, 1987).
53. "Fine Needle Aspiration (FNA) of the Thyroid," American Society of Clinical Pathologists Spring 1987 Teleconference Series (May 14, 1987).
54. "Fine Needle Aspiration of the Breast: Problematic Cases," Current Issues in Anatomic Pathology, San Francisco, CA (May 21-22, 1987).
55. "FNA of the Thyroid I & II"; "FNA of Miscellaneous Body Sites"; and "Discussion of Selected Cases Including Thyroid and Miscellaneous Body Sites," Seventh Annual Symposium on Fine Needle Aspiration (Co-Director), Maui, Hawaii (August 22-29, 1987).
56. "Historical Perspective of Fine Needle Aspiration in Breast: Aspirate Case Discussions," Guest Lecturer, Combined Hartford Pathology Residents, St. Francis Hospital, Hartford, CT (September 22, 1987).
57. "Fine Needle Aspiration Biopsy of Thyroid and Prostate," Connecticut Society of Pathologists Semi-Annual Education Seminar, Hartford, CT (October 22, 1987).
58. Miller, T., Kline, T., Bedrossian, C., Howell, L. "Fine Needle Aspiration of Prostate," Panel Luncheon: American Society of Cytology, Annual Meeting, New Orleans, LA (November 4-8, 1987).
59. Miller, T., King, E.B. "Comparative Cytology of Breast Cancer and its Precursors," American Society of Cytology Workshop, New Orleans, LA (November 7, 1987).
60. "Breast Disease," Comprehensive review course and annual postgraduate course, Depart. Ob/Gyn, UCSF (November 16-20, 1987).
61. "Aspiration of Childhood Tumors," American Society of Cytology Teleconference (January, 1988).
62. "Fine Needle Aspiration Cytology of the Breast," IAP Short Course, 77th Annual Meeting, IAP, Washington DC (February 28-March 4, 1988).
63. "Fine Needle Aspiration Biopsy in the Diagnosis of and Management of Breast Cancer: Current Approaches to Radiation Oncology, Biology, and Physics," 7th Ann. Course, Radiation Oncology, University of California, San Francisco, CA (March 9-11, 1988).
64. Visiting Professor: "Thyroid Lesions: Fine Needle Aspiration & Cytology"; "Deep-Seated Lesions: Fine Needle Aspiration & Cytology"; "Diagnostic Problems in Breast Lesions"; "General Utility & Accuracy, Fine Needle Aspiration Thyroid and Breast Lesions"; "Breast Lesions: Fine Needle Aspiration & Cytology," University of Hawaii Integrated Pathology Residency Program (May 18, 1988).
65. "Fine Needle Aspiration of the Thyroid," Current Issues in Anatomic Pathology, San Francisco, CA (May 26-27, 1988).
66. "FNA, Various Topics," University of Colorado Resident Lecture Series (June, 1988).
67. Co-Director: "8th Annual Symposium of Fine Needle Aspiration," Depart. Pathology & EPME, UCSF, Maui, HI (August 13-20, 1988).
68. Northwest Medical Laboratory Symposium: Workshops on FNA of Breast, Salivary Gland, Thyroid, Prostate, and Abdominal Masses, Seattle, WA (October, 21-22, 1988).
69. "Breast Disease," Comprehensive review course and annual postgraduate course, Depart. Ob/Gyn, UCSF (November 1988).



70. Co-Director: "UCSF Bay Area Seminars in Cytopathology"; presented seminar: "Problems Related to FNA of Thyroid," San Francisco, CA (February 1989).
71. "Needle Aspiration Biopsy: Problems in FNA of Thyroid Lesions," ASC 10th Interim Scientific Meeting, San Francisco, CA (March 3-4, 1989).
72. Seminar: "Cytology Information Systems," CAP/ASCP Spring Meeting, Chicago, IL (March 13, 1989).
73. "Fine Needle Aspiration Cytology of the Breast," IAP Short Course, San Francisco, CA (March 10, 1989).
74. "FNA of the Salivary Gland," Current Issues in Anatomic Pathology, Dept. Pathology, UCSF & EPME, San Francisco, CA (May 26, 1989).
75. Co-Director: "9th Annual Symposium of Fine Needle Aspiration," Department of Pathology & EPME, UCSF, Kauai, HI (August 5-12, 1989).
76. Visiting Professor, Tripler Army Hospital, Honolulu, HI (October, 1989).
77. Course Co-leader "Problem Cases in Fine Needle Aspiration Biopsy: Differential Diagnostic Considerations and Plans of Attack"; panel discussion: "Diagnostic Problems in Surgical Pathology," California Seminars in Pathology, California Society of Pathologists, San Francisco, CA (November 29-December 2, 1989).
78. "Fine Needle Aspiration Cytology of the Breast," IAP Short Course, San Francisco, CA (March, 1989).
79. "FNA of Thyroid, Lymph Nodes, and Salivary Glands," American Society of Cytology, 11th Interim Scientific Meeting, Orlando, FL (March, 1990).
80. "Diagnostic Problems in Breast Fine Needle Aspiration," Current Issues in Anatomic Pathology, San Francisco, CA (May 24-25, 1990).
81. Panel Member, NIH Consensus Development Conference, "Early Stage Breast Cancer," Washington, DC (June 18-21, 1990).
82. Co-Director: "10th Annual Symposium of Fine Needle Aspiration," Department of Pathology & EPME, UCSF, Hamilton, Bermuda (August 5-11, 1990).
83. "Needle Aspiration Biopsy: Problems in FNA of Thyroid Lesions," American Society of Cytology, 12th Interim Scientific Meeting, San Francisco, CA (March, 1991).
84. "Difficult Breast Lesions as Examined by Fine Needle Aspiration," Current Issues in Anatomic Pathology, San Francisco, CA (May 23-24, 1991).
85. Moderator, State of the Art Symposium: "Breast Carcinoma: Current Thoughts On Prognosis, Treatment, And Diagnosis," California, American Society of Cytology 39th Annual Scientific Meeting, Los Angeles, CA (November 5-10, 1991).
86. "FNA of Thyroid and FNA of Salivary Gland," lecture and workshop, The Osler Institute Cytology Review Course honoring Eileen B. King, San Diego, CA (November 13-16, 1991).
87. Annual Symposium: Cervical Lesions And The Pap Smear: "Benign Lesions that Simulate Malignancy and Malignant Lesions that can be Overlooked," California Seminars in Pathology 44th Annual Convention, California Society of Pathologists, San Diego, CA (December 4-7, 1991).
88. "Diagnostic Problems in Surgical Pathology," California Seminars in Pathology 44th Annual Convention, California Society of Pathologists, San Diego, CA (December 4-7, 1991).
89. Co-Director, Bay Area Seminars in Cytology, San Francisco, CA (January, 1992).
90. "FNA of the Thyroid," 2nd Annual Cytology Seminar, University of Iowa, Iowa City, IA (May 2, 1992).

91. "Problems in Gyn Cytopathology," Bay Area Cytology Seminar Series, San Francisco, CA (June 9, 1992)
92. Co-Director, "12th Annual Comprehensive Fine Needle Biopsy Course," Kohala Coast, Hawaii (August 9-15, 1992)
93. Vice Chairman, ASCP Teleconference, "Diagnostic Problems in Thyroid FNA" (December 10, 1992)
94. "A Systematic Approach to the Interpretation of Thyroid Needle Aspiration Biopsy Material," Florida Society of Pathologists Annual Summer Seminar, Captiva Island, FL (July 18, 1993)
95. Co-Chairman, 14th Annual Comprehensive Fine Needle Biopsy Course, Maui, Hawaii (August, 7-14, 1993)
96. Speaker, Otorhinolaryngology Interdisciplinary Panel Discussion, "Fine-Needle Aspiration of Head and Neck Masses—Why, When, and How," 79th Annual Congress, American College of Surgeons, San Francisco, CA (October 10-15, 1993)
97. "Pathology of the Vulva and Vagina," UCSF Annual Review Course, Gynecologic Histopathology, San Francisco, CA (October 28, 1993)
98. Chairman, Scientific Program Committee, ASC 41st Annual Meeting, Houston, TX (November 1993)
99. Speaker, Medical Grand Rounds, Doctor's Hospital, Pinole, CA. "Fine Needle Aspiration Biopsy: A General Presentation. (May 5, 1994).
100. Visiting Professor and Invited Speaker. "Cytopathology and Clinical Aspects of Breast Diseases," The Connecticut Society of Pathologists, Meriden, CO (May 12, 1994).
101. Co-Director of 15th Annual Comprehensive Fine Needle Aspiration Biopsy Course. Mauna Lanai, HI, (August 14-20, 1994).
102. Chairman, Scientific Program Committee, ASC 42nd Annual Meeting, Chicago, IL. (November 1-6, 1994).
103. Visiting Professor, University of Florida, Gainesville, FL. "FNA of Breast; FNA of Thyroid; Slide Session." (March 27-28, 1995)
104. Invited Lecturer, "Fine Needle Aspiration of the Thyroid" Mountain States Association of Cytotechnologists, Estes Park, Colorado (May 20-21, 1995).
105. Invited Lecturer, Harvard Medical School, "Advances in Cytology" (June 19-23, 1995).
106. Co-Chairman, 16th Annual Comprehensive Fine Needle Biopsy Course, San Francisco, CA (August 12-19, 1995).
107. Invited Speaker, Stanford University, Stanford, CA. "FNA biopsy of breast lesions", Current Concepts in Surgical Pathology. (September 27, 1995).
108. "Pathology of the vulva and vagina", UCSF Annual Review Course, Gynecologic Histopathology, San Francisco, CA (October 26, 1995).
109. Chairman, Scientific Program Committee, ASC 43rd Annual Meeting, New York, NY (November 7-11, 1995).
110. Invited Speaker, ASC Cytopathology Review, "Salivary Gland Aspiration Cytology"; "Thyroid Aspiration Cytology" Savannah, GA. (March 30-31, 1996).
111. Invited Speaker, California Association of Cytotechnologists, 1996 Workshop/Seminar, "Problems in Breast Fine Needle Aspirations", San Francisco, (June 6-9, 1996).
112. Invited Lecturer, Harvard Medical School, "Advances in Cytology" (June 24-28, 1996)
113. Co-Chairman, 17th Annual Comprehensive Fine Needle Biopsy Course, Hawaii (August 10-17, 1996).

114. Invited Speaker, "FNA of the Thyroid" 9th Annual Northeast Regional Conference, Farmington, Connecticut (October 11, 1996).
115. Invited Speaker, "Pathology of Vulvar Carcinoma and its Precursors", Clinical Obstetrics and Gynecology & Gynecologic Histopathology (October 21-24, 1996).
116. Invited Speaker, "Diagnostic Problems and Pitfalls in Fine Needle Aspiration Biopsy (FNAB) of Breast Lesions". Bay Area Seminars in Cytopathology 1997, San Francisco, CA (March 13, 1997).
117. Invited Speaker, "Fine Needle Aspiration Cytopathology of the Salivary Glands", 42nd Tutorial on Clinical Cytology, Universal City, CA. (March 21, 1997).
118. Invited Speaker, "Thyroid Gland Aspiration Cytology" Cytopathology Review, Baltimore, MD (April 27, 1997).
119. Invited Speaker, "Breast FNA", Advances in Cytology, Harvard Medical School, Boston, MA. (June 23-27, 1997).
120. Co-Chairman, 18<sup>th</sup> Annual Comprehensive Fine Needle Biopsy Course, Hawaii (August 9-16, 1997).
121. Invited Speaker, "Pathology of Vulvar Carcinoma and its Precursors", Clinical Obstetrics and Gynecology & Gynecologic Histopathology, San Francisco, CA (October 13-16, 1997).
122. Invited Speaker, "Salivary Gland Aspiration Cytology", Cytopathology Review, Seattle, WA. (April 25-26, 1998).
123. Invited Speaker, "Cytology of Bladder Carcinoma vs. Inflammation/Radiation Atypia", First Annual UCSF/Stanford Current Issues in Anatommic Pathology, San Francisco, CA (May 21-23, 1998).
124. Co-Chairman, 19<sup>th</sup> Annual Comprehensive Fine Needle Biopsy Course, Hawaii (August 8-15, 1998).
125. Invited Speaker, "Diagnostic Problems and Pitfalls in Fine Needle Aspiration Biopsy of Breast Lesions", Cedars Sinai Medical Center, Los Angeles, CA (Sept. 1998).
126. Invited Speaker, "FNA of Thyroid", Opening Lecture for the Los Angeles Society of Pathologists 1998/99 Season, Los Angeles, CA (Sept. 1998).
127. Co-Chairman, 19<sup>th</sup> Annual Comprehensive Fine Needle Biopsy Course, Hawaii (August 8-15, 1998).
128. Invited Speaker, "Fine Needle Aspiration Biopsy of the Salivary Glands." 44<sup>th</sup> Tutorial on Clinical Cytology, Sheraton-Universal Hotel, Universal City, CA (February 1999)
129. Co-Chairman, 20<sup>th</sup> Annual Comprehensive Fine Needle Aspiration Biopsy Course, San Francisco, Ca. (August 8-13, 1999).
130. 23<sup>rd</sup> Annual William M. Christopherson Society Lectureship, Louisville, Ky. (November 24, 1999).
131. Visiting Professor, University of Louisville School of Medicine, Department of Pathology
132. "Practical Fine-needle Aspiration Cytology For General Pathologist" USCAP short course, New Orleans, March 25-31, 2000.
133. "Non-Gynecologic Cytopathology: Discussion of Cases and Trends Noted From CAP Interlaboratory Comparison Programs in Non-Gynecologic Cytology" ASCP/CAP Annual Meeting & Exhibits, San Diego, October 15, 2000.
134. "Practical FNA Cytology For General Pathologist" USCAP short course, Atlanta, March 3-9, 2001.
135. "Microscopic Tutorial: Diagnostic Problems in Thyroid FNA." Current Issues in Anatomic Pathology, 2001, San Francisco, CA.

136. Invited Speaker, "Selected Topics in Thyroid Cytology" Current Issues in Anatomic Pathology, 2001, San Francisco CA.
137. "Microscopic Tutorial: Diagnostic Problems in FNA" 54<sup>th</sup> Annual Convention, California Society of Pathologist. November 28, 2001 San Diego CA.
138. Moderator: Annual Symposium at the 54<sup>th</sup> Annual Convention, California Society of Pathologist. November 28, 2001 San Diego CA.
139. "Practical FNA Cytology For General Pathologist" USCAP short course, Chicago IL. February 28, 2002.
140. "Problem Cases in Salivary Gland and Thyroid FNA's" The Twelfth Annual Iowa Cytology Course, Iowa City, May 3-4,2002.
141. "Microscopic Tutorial: Diagnostic Problems in FNA" 55<sup>th</sup> Annual Convention, California Society of Pathologist. December 6, 2002 San Francisco, CA.
142. "Practical FNA Cytology For General Pathologist" USCAP short course, Washington D.C. March 28<sup>th</sup>, 2003.
143. UCLA Department of Pathology and Laboratory Medicine "Grand Rounds & CME Series" April 30<sup>th</sup>, 2003 Los Angeles CA.
144. "Microscopic Tutorial: Diagnostic Problems in Thyroid FNA." Current Issues in Anatomic Pathology, 5/20-21/2003, San Francisco, CA
145. Invited Speaker, FNA of Thyroid "The Other Lesions" 6<sup>th</sup> Annual UCSF-Stanford "Current Issues in Anatomic Pathology", 5/22/2003, San Francisco CA.
146. "Microscopic Tutorial: Salivary Gland FNA" Cytology Seminar at The 7<sup>th</sup> Annual UCSF-Stanford "Current Issues in Anatomic Pathology" 5/26-29/2004, San Francisco Ca.
147. "Pitfalls in Salivary Gland: Lessons Learned from the College of American Pathologist Interlaboratory Comparison Program in Non-Gynecologic Cytology" CAP '04, The Pathologists' Meeting, September 19-22, 2004, Phoenix, AZ.
148. "Current Issues in Non-Gynecological Cytology" CAP '04, The Pathologists' Meeting, September 19-22, 2004, Phoenix, AZ.
149. "Microscopic Tutorial: FNA of Head and Neck." 57<sup>th</sup> Annual Convention, California Society of Pathologist. December 1-4, 2004 San Francisco, CA.
150. "Microscopic Tutorial: Thyroid FNA" Cytology Seminar at The 8<sup>th</sup> Annual UCSF-Stanford "Current Issues in Anatomic Pathology" 5/25-28, 2005, San Francisco Ca.
151. "Microscopic Tutorial: Salivary Gland FNA" Cytology Seminar at The 9<sup>th</sup> Annual UCSF-Stanford "Current Issues in Anatomic Pathology" 5/31-6/3, 2006, San Francisco Ca.
152. "FNA of Salivary Gland Lesions That Are Problematic" Invited speaker The 11<sup>th</sup> Annual UCSF-Stanford "Current Issues in Anatomic Pathology" May 2008, San Francisco, Ca.

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6. Miller, T.R. "Fine Needle Aspiration," Videotape production, Extended Programs in Medical Education, UCSF, 1983.

### **Abstracts:**

1. Herfkens, R., Price, D., Crooks, L., Miller, T., Hoenninger, J., Arakawa, M., Watts, J., Hartmeyer, J., Margulis, A., and Kaufman, L. Correlation of various nuclear magnetic resonance image parameters with tissue composition in the rat. The Radiology Society of North America, paper No. 14, 66th Annual Meeting. November, 1980, Dallas, TX.
2. Herfkens, R., Crooks, L., Davis, P., Margulis, A., Hoenninger, J., Arakawa, M., Watts, J., Miller, T., and Kaufman, L. Nuclear magnetic resonance imaging of neoplastic and inflammatory

- diseases of the rat. The Radiology Society of North America, paper No. 58, 66th Annual Meeting. November, 1980, Dallas, TX.
3. Crooks, L., Sheldon, P., Kaufman, L., Rawar, W., and Miller, T.R. Quantification of obstructions in vessels by nuclear magnetic resonance (NMR).
  4. Goodson, W.H.III, Mailman, R., and Miller, T.R. Three-year follow-up of benign fine needle aspiration biopsies of the breast. Pacific Coast Surgical Association, Annual Meeting, Palm Springs, February, 1987.
  5. Cohen, M.B., Miller, T.R., and Beckstead, J.H. Examination of fine needle aspiration biopsies with the aid of plastic embedding. Annual Meeting, International Academy of Pathology, March 1987, Chicago, IL.
  6. Cohen, M.B., Miller, T.R., and Beckstead, J.H. Fine-needle aspiration biopsy and plastic embedding: Combination of two techniques. Annual Meeting, International Academy of Pathology, March 1987, Chicago, IL.
  7. Rosen-Levin, E., Okerlund, M., Miller, T., Chehabi, H., Price, D., Botvinick, E., Engelstad, B., and Hattner, R. Bone scanning efficacy in detection of malignant pleural effusions: Correlation with cytologic and radiographic techniques. Society of Nuclear Medicine, 35th Annual Meeting, June 14-17, 1988, San Francisco, CA.
  8. Sandler, E.D., Hattner, R.S., Parisi, M.T., and Miller, T.R. Clinical and cytopathologic study of bone scan findings of pleural effusion: Sensitivity and specificity for malignancy. Society of Nuclear Medicine, 39th Annual Meeting, June 9-12, 1992, Los Angeles, CA.
  9. Miller, T.R., Banks, S., Tupkelewicz, B., Peterson, J., Aguilera, M., Cartwright, D., Darragh, T.M., and Ljung, B.-M. Comparison of Fine Needle Aspiration Biopsy Specimens Prepared by Conventional Methodology Versus ThinPrep. *Acta. Cyto.* September,/October,, 1993.
  10. Sidawy, M.K., Stoler, M.H. Frable, W.J., Frost, A.R., Masood, S., Miller, T.R., Silverberg, S.G., Sneige, N., and Wang, H.H. Interobserver variability in the classification of proliferative breast lesions by fine needle aspiration: results of a Papanicolaou society of cytopathology study. *Acta Cyto.*September,/October,, 1995.
  11. Ljung BM, Drejet A, Chiampi N, Jeffrey J, Goodson WH III, Chew KL, Miller TR, Moore DH II: Fine Needle Aspiration Biopsy of Palpable Brest Masses: training in Sampling Technique Improves Diagnostic Accuracy. Department of Defense Cancer Research Program Annual Meeting. "Era of Hope," June 5-10, 2000.

## **SUMMARY OF RESEARCH**

### **Summary of Research Interests:**

1. Ongoing clinical studies on fine needle aspiration material, especially in the area of the thyroid and breast.

### **Research in Progress:**

1. Major efforts center on the use of FNA for the diagnosis of palpable breast and thyroid lesions using classic morphological means. We are also working on developing better methods for obtaining material material of non-palpable lesions.
2. Second study is to find risk factors associated with development and progression of these lesions.
3. Member: Thyroid: State of the Science Conference sponsored the National Cancer Institute 2006-present.

## **TEACHING:**

### **Formal Scheduled Classes for UCSF Students:**

<u>Qtr.</u>	<u>Acad.Yr.</u>	<u>Course No. &amp; Class Title</u>	<u>Nature of Contribution</u>	<u>Hours</u>	<u>Size</u>
F	1977-79	Path 102, Sys. Path.	2 formal lectures, Lab/ Seminar Leader	6	150 20
Su,F	1977-86	Exfol. Cytol. A,B	13 formal lectures	14	6
F	1978-80	Path 126 (dental), Path 135 (pharm), & Phys. Therap. 101A	1 formal lecture (General Path.), & 1 seminar (pharm. studs.)	3-5	250 115
W	1981-83	Path 102, Sys. Path.	1 formal lecture, Lab/ Seminar Co-leader	3	150 40
Sp	1981-85	Path 103, Sys. Path.	1 formal lecture	3	150
F	1982-84	Path 126, Path 135, & Phys. Therap. 101A	1 formal lecture	3-5	265
Sp	1983	Path 103, Sys. Path.	2 formal lectures	3	150
Sp	1989-2001	Path 103, Sys. Path.	Laboratory Instructor	16	40
F	1993-2001	Path 101, Sys. Path	1 formal lecture	1	150
S	2002-now	School of Medicine New curriculum	Small Group leader		
F,W	2002-now	Path Lab 1 <sup>st</sup> /2 <sup>nd</sup> year Students	Pathology/Radiology Laboratory Instructor	4 8	20 40

### **Postgraduate Courses Sponsored Through UCSF:**

#### **Continuing Education Courses:**

August, 1983 Department of Pathology, 5 hr lecture, 3rd Annual Symposium on Fine Needle Aspiration 10 hr laboratory, Maui, Hawaii

- 1983-86 Department of Pathology & Department of Epidemiology & International Health  
Bay Area Seminars in Cytopathology 1-1/2 hr lecture
- 1984: EPME Videotape: Fine Needle Aspiration 1 hr.
- August, 1984 Department of Pathology, UCSF (Co-Chair), 5 hr lecture
- August, 1984 Cytology Department, Karolinska Hospital, 4th Annual Symposium on Fine Needle Aspiration, Stockholm, Sweden 12 hr laboratory
- May 1985 Continuing Medical Education: FNA of Breast, Problem Areas, Current Issues in Anatomic Pathology, San Francisco, CA 1 hr.
- August, 1985 Department of Pathology: 5th Annual Symposium on Fine Needle Aspiration, Santa Barbara, CA, 5 hr lecture, 12 hr laboratory
- April 1986 Indications and Technique of Fine Needle Aspiration, Tutorial in Gynecologic Surgery and Anatomy, UCSF, San Francisco, CA 1 hr.
- May 1986 Continuing Medical Education: Role of Fine Needle Aspiration Biopsy in the Diagnosis of Round Cell Tumors, Current Issues in Anatomic Pathology, San Francisco, CA 1 hr.
- August, 1986 Department of Pathology: 6th Annual Symposium on Fine Needle Aspiration (Co-Director), San Francisco, CA, 5 hr lecture, 12 hr laboratory
- August, 1987 "Unusual Breast FNA Cytology," UCSF-Bay Area Seminars in Cytopathology, San Francisco, CA. 1 1/2 hr.
- August, 1987 "FNA of the Thyroid I & II"; "FNA of Miscellaneous Body Sites"; and "Discussion of Selected Cases Including Thyroid and Miscellaneous Body Sites," Seventh Annual Symposium on Fine Needle Aspiration (Co-Director), Maui, HI. 1 1/2 hr.
- Mar 1988 "Fine Needle Aspiration Biopsy in the Diagnosis of and Management of Breast Cancer: Current Approaches to Radiation Oncology, Biology, and Physics," 7th Ann. Course, Radiation Oncology, University of California, San Francisco, CA. 1 hr.
- August, 1988 Co-Director: "8th Annual Symposium of Fine Needle Aspiration," Dept. Pathology & EPME, UCSF, Maui, HI. 12 hr.
- February, 1989 Co-Director: "UCSF Bay Area Seminars in Cytopathology"; presented seminar: "Problems Related to FNA of Thyroid," San Francisco, CA. 1 1/2 hr.
- August, 1989 Co-Director: "9th Annual Symposium of Fine Needle Aspiration," Dept. Pathology & EPME, UCSF, Kauai, HI. 12 hr.
- May 1990 Co-Director, UCSF Bay Area Seminars in Cytopathology, San Francisco, CA 1 1/2 hr.
- August, 1990 Co-Director: "10th Annual Symposium of Fine Needle Aspiration," Dept. Pathology & EPME, UCSF, Hamilton, Bermuda 12 hrs.
- May 1991 Co-Director: UCSF Bay Area Seminars in Cytopathology, San Francisco, CA 1 1/2 hr.
- August, 1991 Co-Director "11th Annual Symposium of Fine Needle Aspiration," Dept. Pathology & EPME, Aspen, CO 12 hr.
- January-June, 1992 Co-Director, Bay Area Seminars in Cytology, San Francisco, CA. 1 1/2 hr.
- May 2, 1992 "FNA of the Thyroid," 2nd Annual Cytology Seminar, University of Iowa, Iowa City, IA. 2 1/2 hr.
- June 9, 1992 "Problems in Gyn Cytopathology," Bay Area Cytology Seminar Series, San Francisco, CA.
- August, 9-15, 1992 Co-Director, "12th Annual Comprehensive Fine Needle Biopsy Course," Kohala Coast, Hawaii. 12 hr.
- January -June, 1993 Co-Director, Bay Area Seminars in Cytology, San Francisco, CA. 1 1/2 hr.
- August, 7-14, 1993 Co-Chairman, 14th Annual Comprehensive Fine Needle Biopsy Course, Maui, Hawaii. 12 hr.
- Oct 28, 1993 "Pathology of the Vulva and Vagina," UCSF Annual Review Course, Gynecologic

Histopathology, San Francisco, CA. 1 hr.  
 January-June, 1994, Co-Director, Bay Area Seminars in Cytology, San Francisco, CA. 1 1/2 hr.  
 May 12, 1994 "Cytopathology and Clinical Aspects of Breast Diseases," The Connecticut Society of Pathologists, Meriden, CO. 2 hr.  
 August, 14-20, 1994 Co-Director of 15th Annual Comprehensive Fine Needle Aspiration Biopsy Course. Mauna Lanai, HI. 12 hr.  
 January -June, 1995 Co-Director, Bay Area Seminars in Cytology, San Francisco, CA. 1 1/2 hr.  
 August 12-19, 1995 Co-Chairman, 16th Annual Comprehensive Fine Needle Biopsy Course, San Francisco, CA. 12 hr.  
 October 26, 1995 "Pathology of the vulva and vagina", UCSF Annual Review Course, Gynecologic Histopathology, San Francisco, CA. 1 hr.  
 August 10-17, 1996, Co-director, "17th Annual Comprehensive Fine Needle Biopsy Course, Hawaii. 12 hr.  
 October 21-24, 1996 "Pathology of Vulvar Carcinoma and it's Precursors", Clinical Obstetrics and Gynecology & Gynecologic Histopathology., San Francisco, CA. 1 hr.  
 March 13, 1997 "Diagnostic Problems and Pitfalls in Fine Needle Aspiration Biopsy (FNAB) of Breast Lesions". Bay Area Seminars in Cytopathology. 1 1/2 hr.  
 March 21, 1997 "Fine Needle Aspiration Cytopathology of the Salivary Glands", 42nd Tutorial on Clinical Cytology, Universal City, CA. 2 hrs.  
 April 27, 1997 "Thyroid Gland Aspiration Cytology" Cytopathology Review, Baltimore, MD. 2 hrs.  
 June 23-27, 1997 "Breast FNA", Advances in Cytology, Harvard Medical School, Boston, MA. 2 hr  
 August 9-16, 1997 Co-Chairman, 18<sup>th</sup> Annual Comprehensive Fine Needle Biopsy Course, Hawaii, 12 hr.  
 August 8-15, 1998 Co-Chair 19<sup>th</sup> Annual Comprehensive Fine Needle Aspiration Biopsy Course, Hawaii, 12 hr.  
 August 8-13, 1999 Co-Chair 20<sup>th</sup> Annual Comprehensive Fine Needle Aspiration Biopsy Course, San Francisco, 12 hr.  
 "Microscopic Tutorial: Diagnostic Problems in Thyroid FNA." The 6<sup>th</sup> Annual UCSF-Stanford "Current Issues in Anatomic Pathology", 5/20-21/2003, San Francisco, CA  
 Invited Speaker, FNA of Thyroid "The Other Lesions" Current Issues in Anatomic Pathology, 5/22/2003, San Francisco CA.  
 "Microscopic Tutorial: Salivary Gland FNA" Cytology Seminar at The 7<sup>th</sup> Annual UCSF-Stanford "Current Issues in Anatomic Pathology" 5/26-29/2004, San Francisco Ca.

#### **SUMMARY OF TEACHING HOURS:**

Past year:           Approximately 250  
 Current year:       Approximately 250  
 Future years:       Approximately 250

#### **SUMMARY OF TEACHING RESPONSIBILITIES:**

1. At the present time, I am a laboratory instructor and small group co-leader in the cancer block of the 1<sup>st</sup> year class.
2. I participate (as needed) in the annual Current Issues in Surgical Pathology program presented by our Department. I am a listed speaker with the Extended Programs in Medical Education Department for the presentation of programs at local and regional hospitals. I

- have been Co-Director of the Bay Area Seminars in Cytopathology (20+ years) and the Co-Director of the Department of Pathology: Annual Symposium on Fine Needle (19 years).
3. On the national level, I provide educational lectures for several professional organizations. I am a Co-Director of a short course presented at the Annual Meeting of the United States and Canadian Academy of Pathology. I have been Workshop Director for the American Society of Cytopathology (ASC) and presented workshops at this organization's annual and interim meetings. I am also an *ad hoc* speaker at other universities. I was Chairman of the Scientific Program for the Annual Meeting of the ASC from 1992 through 1995. I served as Vice-President of the ASC in 1995, and President Elect for 1996-1997. I was the 1997-1998 President for the ASC.
  4. I oversee visiting pathologists who desire further training in Cytology at UCSF.
  5. A major amount of time is spent teaching residents/fellows during daily sign-out of current patient material. Estimated number of teaching hours is 250 per year.

### **CURRENT EXTRAMURAL AND INTRAMURAL GRANTS**

I do not have any funding from extramural or intramural grants.

### **LISTING OF MOST SIGNIFICANT PUBLICATIONS**

Abele, J.S., Miller, T.R., Hunt, T.K., and Goodson, W.H., III. Fine-needle aspiration of palpable breast masses: A program for staged introduction Arch. Surg. 118:859-863, 1983. (Number 13 on Bibliography)

In this paper I was responsible for the development of the method for implementation of fine-needle biopsy in a clinical setting where it had not been performed before. In addition to developing the model, I performed approximately one-half of the biopsies and reviewed all of the samples.

Miller, T.R., Bottles, K., Holly, E.A., Friend, N.F., and Abele, J.S. A step-wise regression analysis of papillary carcinoma of the thyroid. Acta Cytol. 30:285-293, 1986. (Number 29)

In this study I was responsible for collecting the cases, developing diagnostic criteria and relating this information to a biostatistician (E.A. Holly) The step wise regression analysis model was then utilized in a number of other papers by me and other authors.

King, E.B., Chew, K.L., Duarte, L., Hom, J.D., Mayall, B.H., Miller T.R., and Petrakis, N.L. Image cytometric classification of premalignant breast disease in fine needle aspirates. Cancer 62:114-124, 1988.

In this paper I collected the cytology cases and assisted Dr. King in developing the diagnostic criteria. I reviewed all of the material in a blinded fashion for this study. The significance of the study has been verified by a number of recent publications.

Sidawy, M.D., Stoler, M.H., Frable, W.J., Frost A.R., Masood, S., Miller, T.R., Silverberg, S.G., Sneige, N. and Wang, H.H. Interobserver variability in the classification of proliferative breast lesions by fine-needle aspiration: results of the Papanicolaou Society of Cytopathology Study. Diagn. Cytopathol. 18:150-165, 1998.



In this paper I was part of an expert panel that reviewed a series of breast FNAs and attempted to classify the lesions. The study was important in that it demonstrated that at this time it is not a reproducible process.