

ABBREVIATED CURRICULUM VITAE

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DATE/PLACE OF BIRTH

June 25, 1938. San Francisco, California

EDUCATION

University of California, Berkeley. Major in Zoology. B.A. 1956-1960

University of California, School of Medicine, San Francisco, California.
M.D. 1961-1965.

University of California, Los Angeles. Department of Pathology. Internship.
1965-1966.

University of California, San Francisco, Department of Pathology. Residency.
1966-1970.

SPECIALTY CERTIFICATION

Anatomic and Clinical Pathology, 11/7/70. American Board of Pathology,
San Francisco, California.

PROFESSIONAL SOCIETIES

American Society of Clinical Pathologists.
American Society of Breast Disease (Secretary/Treasurer, 1996; President, 1997-1998;
Immediate Past President, 1998-2000; Board of Directors, 1992-2004)
American Society of Integrative Biologists

MILITARY SERVICE

Major, U.S. Army Medical Corps. 6/25/70 - 6/24/72

Armed Forces Institute of Pathology. Washington, D. C. Genitourinary and Ichthyo-endocrine
Pathology Branch. 2/1/71 - 1/6/72.

RECENT APPOINTMENTS

Medical Director. The Breast Cancer Consultation Service. Tiburon, California. 2001 - present.

St. Mary's Hospital and Medical Center. Director, Breast Services. 2001 - present.

St. Mary's Hospital and Medical Center. Medical Director, Breast Cancer Consultation Service. San Francisco, California. 1994 - 2001.

California Pacific Medical Center (formerly Children's Hospital of San Francisco), Staff Pathologist. 1972 - 1994.

California Pacific Medical Center, Pathologist to the Breast Health Center, 1988 - 1994.

UNIVERSITY APPOINTMENTS

Assistant Clinical Professor of Pathology. University of California, San Francisco Medical Center. San Francisco, California 1975 - present.

Clinical Associate Professor of Pathology, Stanford University Medical Center, Stanford, California. 1991 - present.

PATHOLOGY BIBLIOGRAPHY

Original Papers:

Lagios MD. 1974. Hormonally enhanced proliferation of human breast cancer in organ culture. An in vitro system for assessment of specific hormonal response. *Oncology*, 29: 22-23.

Lagios MD. 1977. Multicentricity of breast carcinoma demonstrated by routine correlated serial subgross and radiographic examination. *Cancer*, 40: 1726-1734.

Lagios MD. 1977. Therapeutic consideration for non-invasive (in situ) breast carcinoma. What's new in cancer care. Published by the West Coast Cancer Foundation, October, 1977.

Lagios, MD, Gates EA, Westdahl PR, Richards V and Alpert BS. 1979. A guide to the frequency of nipple involvement in breast cancer based on a study of 149 consecutive mastectomies studied in a serial subgross and correlated radiographic technique. *Am J Surg*, 138: 135-142.

Lagios MD, Rose MR and Margolin FR. 1980. Tubular carcinoma of the breast. Association with multicentricity, bilaterality and family history of breast carcinoma. *Am J Clin Pathol*, 73: 25-30.

Friedman MA, Hoffman PG Jr, Dandolo EM, Lagios MD, et al. 1981. Estrogen receptors in male breast cancer. Clinical and pathological correlations. *Cancer*, 47: 134-137.

Lagios MD, Westdahl PR and Rose MR. 1981. The concept and implications of multicentricity in breast carcinoma. *Pathology Annual*, 16: 87-102.

Lagios MD, Westdahl PR, Margolin FR and Rose MR. 1982. Duct carcinoma in situ. Relationship of extent of noninvasive disease to the frequency of occult invasion, multicentricity, lymph node metastases, and short-term failures. *Cancer*, 50: 1309-1314.

- Lagios MD, Richards VE, Rose MR and Yee E. 1983. Segmental mastectomy without radiotherapy. Short term followup. *Cancer*, 52: 2173-2179.
- Lagios MD, Westdahl PR, Rose MR and Stasko-Concannon S. 1984. Paget's disease of the nipple: Alternative management in cases without or with minimal extent of underlying breast carcinoma. *Cancer*, 54: 167-173.
- Margolin FR and Lagios MD. 1986. Mammographic detection of early breast cancer - ten year's experience in a community hospital. *West J Med*, 144: 46-48.
- Margolin FR and Lagios MD. 1987. Development of mammography and breast services in a community hospital. *Rad Clin of North America*, 25: 973-982.
- Lagios MD, Margolin FR, Westdahl PR, Rose MR. 1989. Mammographically detected duct carcinoma in situ: Frequency of local recurrence following tylectomy and prognostic effect of nuclear grade on local recurrence. *Cancer*, 63: 618-624.
- Lagios MD. 1990. Duct Carcinoma in situ. Pathology and Treatment. *Surgical Clinics of North America*, 70 (4).
- Van Dongen JA, Holland R, Peterse JL, Fentiman IS, Lagios MD, Millis RR and Recht A. 1992. Ductal Carcinoma in situ of the Breast; Second EORTC Consensus Meeting. *Eur J Cancer*, 28: 626-629.
- Lagios MD. 1992. Pathologic Features Related to Local Recurrence Following Lumpectomy and Irradiation. *In: Seminars in Surgical Oncology*. Wiley-Liss, 8: 122-128.
- Lagios MD, and Page DL. 1993. Letter to the Editor: "Radiation Therapy for In Situ or Localized Breast Cancer". *N Eng J Med.*, 329: 1577-1578.
- Lagios MD. 1993. Heterogeneity of ductal carcinoma in situ of the breast. *J Cellular Biochemistry*. Chemoprevention of Breast Cancer: Surrogate Endpoints and Agents in Short-Term Clinical Trials. Supplement 17 G, 49-52.
- Page DL and Lagios MD. 1994. Pathology and clinical evolution of ductal carcinoma in situ (DCIS) of the breast. *Cancer Letters*, 86: 1-4.
- Page DL and Lagios MD. 1995. Pathologic analysis of the National Surgical Adjuvant Breast Project (NSABP) B-17 Trial: Unanswered questions remaining unanswered considering current concepts of ductal carcinoma in situ. *Cancer*, 75: 1219-1222.
- Lagios MD. 1995. Ductal carcinoma in situ: Controversies in diagnosis, biology and treatment. *The Breast Journal*, 1: 68-78.
- Lagios MD. 1996. Duct carcinoma in situ: Biological implications for clinical practice. *Seminars in Oncology*, 23(Suppl 2): 6-11.
- Lagios MD. 1996. Pathologic faux pas in breast cancer interpretation. *Path Case Reviews*, 1:41-43.
- Lagios MD. 1996. Classification of duct carcinoma in situ (DCIS) with a characterization of high grade lesions: Defining cohorts for chemoprevention trials. *J Cell Biochem*, 255: 108-111.
- Silverstein MJ, Lagios MD, Craig PH, Waisman JR, et al. 1996. A prognostic index for ductal carcinoma in situ of the breast. *Cancer*, 77: 2267-2274.

Silverstein MJ and Lagios MD. 1997. Use of predictors of recurrence to plan therapy for DCIS of the breast. *Oncology*, 11: 393-409.

Lagios MD and Silverstein MJ. 1997. Ductal carcinoma in situ. The success of breast conservation therapy: A shared experience of two single institutional nonrandomized prospective studies. *Surg Oncol Clinics of N Amer*, 6: 385-392.

Scott MA, Lagios MD, Axelsson K, et al. 1997. Ductal carcinoma in situ of the breast: Reproducibility of histological subtype analysis. *Human Path*, 28: 967-973.

Lagios MD. 1998. Prognostic features of breast carcinoma from stereotactic biopsy material. *Seminars in Breast Disease*, 1: 101-111.

Lagios MD. 1998. The contribution of Pathology to breast cancer malpractice: Common sources of potentially damaging errors in current pathology practice. *Seminars in Breast Disease*, 1 (1): 15-21.

Silverstein MJ, Lagios MD, Martino S, et al. 1998. Outcome after invasive recurrence in patients with ductal carcinoma in situ of the breast. *J Clin Oncol*, 16: 1367-1373.

Silverstein MJ, Lagios MD, Groshien S, Waisman JR et al. 1999. The Influence of margin width on local control of ductal carcinoma in situ of the breast. *New England J Med*, 30: 1455-1461.

Sneige N, Lagios MD, Schwarting R, Colburn W, et al. 1999. Interobserver reproducibility of the Lagios nuclear grading system for ductal carcinoma in situ. *Human Pathol*. 30: 257-262.

Lagios MD. 2000. Pathology procedures for evaluation of the specimen with potential or documented DCIS. *Seminars in Breast Disease*, 3: 42-49.

Lagios MD. 2003. DCIS: Current concepts in diagnosis and management. *The Breast Journal*, 9, suppl: 22-24.

Meng ZH, Ben Y, Li Z, Chew K, Ljung B, Lagios MD, Dirkee SH. 2004. Aberrations of breast cancer susceptibility genes occur early in sporadic breast tumors and in acquisition of breast epithelial immortalization. *Gen Chem Canc*, 41: 214-222.

Romero L, Klein L, Wei Y, Holmes D, Soni R, Silberman H, Lagios MD and Silverstein MJ. 2004. Outcome after invasive recurrence in patients with ductal carcinoma in situ of the breast. *Am J Surg*. 188: 371-376.

Silverstein MJ, Lagios MD, Recht A, et al. 2005. Image-detected breast cancer: State of the art diagnosis and treatment. *J Amer Coll Surg*. 201(4): 586-97.

Lagios MD. 2006. Problems in the assessment of tumor size: An elusive grail in current practice. *Seminars in Breast Disease*, 8: 24-30.

Macdonald HR. Silverstein MJ, Lee LA, Ye W, Sanghavi P, Holmes DR, Silberman H, Lagios, M. 2006. Margin width as the sole determinant of local recurrence after breast conservation in patient with ductal carcinoma in situ of the breast. *Am J Surg*, 291: 420-422.

Lee LA, Silverstein MJ, Chung CT, Macdonald H, Sanghavi P, EEpstein M, Holmes DR, Silberman H, Ye W, Lagios MD. 2006. Breast cancer-specific mortality after invasive local recurrence in patients with ductal carcinoma in situ of the breast. *Am J Surg*, 192: 416-419.

Editorials:

Lagios MD. 1999. An expanded diagnostic role for core biopsy: Assessment of the proportion of duct carcinoma in situ in invasive carcinomas. *Annals Surg. Oncol.*, 6: 422-423.

Lagios MD. 2000. Radial Scars: A spiculate problem. Editorial. *The Breast Jour.*, 6: 77.

Lagios MD. 2000. Breast conservation without irradiation for invasive disease: Legendary quest or definable reality? *Annals Surg. Oncol.*, 7:552-553.

Silverstein MJ and Lagios MD. 2000. Pathologic findings from the National Surgical Adjuvant Breast Project (NSABP) eight-year update of protocol B-17. Editorial. *Cancer*, 88: 242-243.

Lagios MD and Silverstein, MJ. 2001. Sentinel node biopsy for patients with DCIS: A dangerous and unwarranted direction. Editorial. *Annals of Surg Oncol.* 8: 275-277.

Lagios MD. 2003. Pathologic practice standards for breast carcinoma: Tumor size, reliable data, or miscues? Editorial. *J Am Col Surg.* 196: 91-92.

Lagios MD. 2003. Clinical significance of immunohistochemically detectable epithelial cells in sentinel lymph node and bone marrow in breast cancer. *J. Surg. Oncol.*, 83: 1-4.

Lagios MD, Page DL and Silverstein MJ. 2006. Prospective study of wide excision alone for ductal carcinoma in situ of the breast. *JCO*, 24: 2809-2813.

Silverstein MJ and Lagios MD. 2007. One size does not fit all: An argument against the routine use of radiation therapy for all patients with ductal carcinoma in situ of the breast who elect breast conservation. *JSO*: 95: 605-609.

Chapters:

Lagios MD. 1981. Breast pathology with reference to breast reconstruction. In: *Reconstructive Breast Surgery*, W. Gant, Editor. W.B. Saunders, Philadelphia.

Lagios MD. 1982. Estrogen Receptors: Significance and Current Status. In: *Frontiers of Radiation Therapy and Oncology. Conservative Surgery and Radiation Therapy in the Treatment of Operable Breast Cancer*. J. M. Vaeth, Editor. Karger, Basel, Switzerland.

Lagios MD. 1983. Human Breast Precancer: Current Status. In: *Cancer Surveys*. L.M. Franks, Editor, Oxford University Press. London.

Lagios MD. 1988. Paget's Disease of the Breast. In: *Textbook of Uncommon Cancer*. CJ Williams, JG Krikorian, MR Green and D Raghaven, editors. John Wiley & Sons, New York.

Lagios MD and Bennington JL. 1991. Protocol for the Pathologic Examination and Tissue Processing of the Mammographically Directed Breast Biopsy. In: *Pathology: State of the Art Reviews*. JL Bennington and MD Lagios, Editors. Hanley & Belfus. Philadelphia.

Bennington JL, Lagios MD, and Margolin FR. 1991. Impact of Mammographic Screening on the Size and the Relative Frequency of Invasion in a Community Hospital from 1975 - 1988. In: *Pathology: State of the Art Reviews*. JL Bennington and MD Lagios, Editors. Hanley & Belfus. Philadelphia.

Lagios MD. 1997. Pathologic procedures for mammographically detected ductal carcinoma in situ. In: *Duct Carcinoma In Situ Of The Breast*, ed: M Silverstein. Williams & Wilkins, Philadelphia. P. 189-194

- Lagios MD. 1997. Grading of ductal carcinoma in situ. In: Duct Carcinoma In Situ Of The Breast, ed: M Silverstein. Williams & Wilkin, Philadelphia. P 227-232.
- Lagios MD. 1997. Microinvasion in ductal carcinoma in situ. In: Duct Carcinoma In Situ Of The Breast, Ed: M Silverstein. Williams & Wilkins, Philadelphia. P 241-246.
- Lagios MD. 1997. The Lagios Experience. In: Duct Carcinoma In Situ Of The Breast, ed: M Silverstein. Williams & Wilkins, Philadelphia. P 361-367.
- Lagios MD. 1997. Lobular carcinoma in situ: An additional perspective. In: Duct Carcinoma In Situ Of The Breast, ed: M Silverstein. Williams & Wilkins, Philadelphia. P 611-616.
- Lagios MD and Page DL. 1998. In situ carcinomas of the breast: Duct carcinoma in situ, paget's disease, lobular carcinoma in situ. In: The Breast. Comprehensive Management of Benign and Malignant Disease. Ed. Kirby Bland. Saunders.
- Lagios MD. 1998. Duct carcinoma in situ. Grading, biologic implications and clinical outcome. In: Diagnostik und Therapie des Mammakarzinoms. State of the Art. Ed: M Untch, G Konecny, H Sittek, M Kessler, M, Reiser, H Hepp. Zuckechwerdt Verlag, Munchen. P110 - 121.
- Lagios MD. 1999. Pathology of in situ breast cancer. In: Breast Cancer. Ed: DB Roses. Churchill-Livingston, New York. P 79-87.
- Lagios MD. 2000. Duktales carcinoma in situ: Die definition prognostischer Faktoren zur lokalen Kontrolle und ihr Einfluss auf das Ergebnis. In: Diagnostik und Therapie des Mammakarzinoms. State of the Art, 2000. Ed: M Untch, G Konecny, H Sittek, M Kessler, M Reiser, H Hepp. Zuckschwerdt Verlag, Munchen. P 147-173.
- Lagios MD. 2000. Ductal carcinoma in situ: Grading, biologic implications and clinical outcome. In: Breast Cancer Management. Application of evidence to Patient Care. Ed: J Nabholz, K Tonkin, M Aapro, A Buzdar. Martin Dunitz, London. P 477-493.
- Lagios MD. 2002. Practical pathology of duct carcinoma in situ: How to derive optimal data from the pathologic examination. In: Ductal Carcinoma Of The Breast, 2nd edition. Ed. M Silverstein. Williams & Wilkins, Philadelphia. P 207-221.
- Lagios MD. 2002. The Lagios Experience. In: Ductal Carcinoma Of The Breast, 2nd edition. Ed. M Silverstein. Williams & Wilkins, Philadelphia. P 303-307.
- Lagios MD. 2002. Der Einfluss der histopathologischen Gewebeaufbereitung auf das Ergebnis beim duktales in -situ-Karzinom. In: Diagnostik und Therapie des Mammakarzinoms, State Of The Art. Ed. M. Untch, H. Sittek, I. Bauerfeind, G. Konecny, M.Reiser, H. Hepp. Zuckschwerdt Verlag, Munchen. P. 149-155.
- Lagios MD. 2002. Tamoxifen chemoprevention for ductal carcinoma in situ: Magic bullet or misstep? In: Ductal Carcinoma Of The Breast, 2nd edition. Ed. M Silverstein. Williams & Wilkins, Philadelphia. P 508-514.
- Silverstein M and Lagios MD. 2002. Ductal carcinoma in situ with microinvasion. In: Ductal Carcinoma Of The Breast, 2nd edition. Ed. M Silverstein. Williams & Wilkins, Philadelphia. p 523-529.
- Silverstein MJ, Recht A and Lagios MD. Editors' Consensus. In: Ductal Carcinoma Of The Breast, 2nd edition. Ed. M Silverstein. Williams & Wilkins, Philadelphia. P 643-650.
- Lagios MD. 2005. Pathology of In Situ Breast Cancer. In: Breast Cancer, 2nd edition. Ed: DB Roses. Churchill-Livingston, Philadelphia. p. 85-97.

Reviews:

Lagios MD. 1999. Breast Diseases: A Year Book Quart., 10: 76. On: Badve S et al. Prediction of local recurrence of ductal carcinoma in situ of the breast using five histologic classifications: A comparative study with long follow-up. Human Pathol 29: 915-923.

Lagios MD. 1999. Breast Diseases: A Year Book Quart, 10: 77. On: Bethwait P et al. Reproducibility of new classification schemes for the pathology of ductal carcinoma in situ of the breast. J. Clin Pathol 51: 450-454.

Lagios MD. 2000. Breast Diseases: A Year Book Quart, 11: 157. On: Diaz LK et al. Are malignant cells displaced by large-gauge needle core biopsy of the breast? Am J Roentgenol 173: 1303-1313.

Lagios MD. 2000. Breast Diseases: A Year Book Quart, 11: 163. On: Sharifi S et al. Assesment of pathologic prognostic factors in breast core needle biopsies. Mod Pathol, 12: 941-945.

Lagios MD. 2001. Breast Diseases: A Year Book Quart, 12: 98. On: Liberman L et al. Imaging - histologic discordance at percutaneous breast biopsy: An indicator of missed cancer. Cancer 87: 2538-2546.

Lagios MD. 2002. Breast Diseases: A Year Book Quart, 12: 407. On: Wahedna Y et al. Mammographic size of ductal carcinoma in situ does not predict the presence of an invasive focus. Eur J Cancer 27: 459-462.

Lagios MD. 2002. Breast Disease: A Year Book Quart., 13: 239-240. On: Miller NA, Chapman JA, Fish EB et al. In situ duct carcinoma of the breast: Clinical and histopathologic factors and association with recurrent carcinoma. Breast J, 7: 292-302.

Lagios MD. 2003. Breast Disease: A Year Book Quart., 13: 353. On: de Mascarel I, MacGrogan G, Mathoulin-Pelissier et al. Breast ductal carcinoma in situ with microinvasion: A definition supported by a long-term study of 1248 serially sectioned ductal carcinomas. Cancer 94: 2134-2142.

Lagios MD. 2003. Oncology, 17: 1533-1538. On: Silverstein MJ. An argument against routine use of radiotherapy for ductal carcinoma in situ. Oncology, 17: 1511-1532.

Consensus Conferences:

Consensus Committee. The European Organization for Research and Treatment of Cancer. Ductal Carcinoma In Situ Consensus Meeting. November, 1988. Amsterdam, The Netherlands.

Consensus Committee. The European Organization for Research and Treatment of Cancer. Ductal Carcinoma In Situ Consensus Meeting. September, 1991. Leuven, Belgium.

Consensus Committee. The European Organization for Research and Treatment of Cancer. Ductal Carcinoma In Situ Consensus Meeting. February, 1994. Venice, Italy.

Consensus Committee. Consensus Conference On The Classification of Ductal Carcinoma In Situ. April, 1997. Cancer, 80: 1789-1802.

Consensus Committee. The European Organization for Research and Treatment of Cancer. Ductal Carcinoma In Situ Consensus Meeting. January, 1998. Amsterdam, The Netherlands.

Consensus Committee. Schwartz G, Solin L, Olivotto, et al. Consensus Conference on the Treatment of In Situ Ductal Carcinoma of the Breast. 1999. Cancer 88: 946-954.
Consensus Committee. Image-Detected Breast Cancer: State of the Art Diagnosis and Treatment. 2001. J Am College Surg, 193: 297-302.

Consensus Committee. Proceedings of the Consensus Conference on the Role of Sentinel Lymph Node Biopsy in Carcinoma of the Breast, April 19-22, 2002. Philadelphia. Cancer, 94: 2542-2551.

Consensus Committee. The European Organization for Research and Treatment of Cancer. Ductal Carcinoma In Situ Consensus Meeting. May, 2002. Amsterdam, The Netherlands. In press.

Silverstein MJ, Lagios MD, Recht A, et al. 2005. Image-Detected Breast Cancer: State of the Art Diagnosis and Treatment. J Am Col Surg. 201: 586-597

Articles and Commentary (non-peer reviewed)

Lagios MD and Silverstein MJ. 1997. Van Nuys Experience contradicts NSABP B-17 Findings. Oncology News International.

Editorial Boards:

Human Pathology, W. B. Saunders Company. Philadelphia.

Seminars in Breast Disease. W. B. Saunders Company, Philadelphia.

Associate Editor:

Breast Diseases: A Yearbook Quarterly. Mosby. St Louis (1999 - 2006).

The Breast Journal. Blackwell Publishing. Malden, Massachusetts.

HONORS

Best Doctors of America. 1998- present. Online.

Best Doctors of America. 1992-1993 and 1994 - 1995 Editions. Woodward/White.

Best Doctors of America, Pacific Region. 1996 - 1997 Edition. Woodward/White.

Chairman, Breast Cancer Pathology Network. West Coast Cancer Foundation, San Francisco, California. 1976 - 1979.

Research Associate, Steinhart Aquarium, California Academy of Sciences. San Francisco, California. 1975 - 1981.

Recipient, Annual Teaching Award in Surgery. Children's Hospital of San Francisco (Awarded by UCSF Surgery Residents). 1977 and 1982.

Fellow, California Academy of Sciences. San Francisco, California. 1978 - present.