

Laurel Waters, M.D. FCAP FASCP

Board Certified Pediatric, Anatomic, and Clinical Pathology and Nuclear Medicine
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Education

- MD. University of California at Davis. 1978
- BS. University of California at Berkeley, 1974. Double Major: Nutrition and Food Science; Biochemistry

Post Graduate Medical Training

- Pediatric Pathology Fellowship. State University of New York, Downstate-Brooklyn. 1999
- Nuclear Medicine. University of California at Davis/Martinez Veterans Administration Medical Center. Martinez, CA. 1984–1986
- Anatomic & Clinical Pathology. University of California at Davis/Martinez Veterans Administration Medical Center. Martinez, CA 1980–1984
- Pediatric Internship. University of California. San Francisco, CA. 1979–1980
- Pediatric Gastroenterology Research Fellowship. University of California. San Francisco, CA. 1978–1979

Board Certification

- American Board of Pathology–Pediatric Pathology, August 1999
- American Board of Nuclear Medicine, September 1986
- American Board of Pathology–Anatomic and Clinical Pathology, June 1984

Licensure

- California License G46277, expires November 2006
- Washington License MD00042881, expires November 2006
- DEA BW4346739 expires 2007

Experience

Founder, PerinatalPath.org Moraga, CA

Consultant

- Berkeley Public Health, Maternal and Child Health
 - Substance Abuse Task Force
 - Low Birth Weight Prevention Team
- Alameda County Public Health Department
 - Fetal and Infant Mortality Review (FIMR)
 - FIMR Community Action Team (CAT)
 - Doula Subcommittee
 - Support After Infant Loss Subcommittee
- Contra Costa County Family, Maternal and Child Health
 - - FIMR / FIMR CAT

- Sacramento County
 - FIMR
- Yolo County
 - FIMR /FIMR CAT
- Solano County
 - FIMR
- Bay Area Data Consortium (9 County Perinatal Group)
- Valley Care Medical Center; Pleasanton, CA: Perinatal Pathology
- Mills- Peninsula Medical Center; Burlingame, CA.: Perinatal Pathology

Additional Services

- Placental Pathology
- Analysis of Poor Perinatal Outcome
- Autopsies
- Expert witness (Plaintiff and Defendant)
- Education of Pathologists, Obstetricians, and Midwives

Major Positions

- **California Medical Facility. Vacaville, CA.** Laboratory Director. 1997–2001
 - Conducted quality assurance on surgical pathology specimens
 - Oversaw quality control and in-service training in clinical laboratory
- **Children’s Hospital Oakland. Oakland, CA.** Assistant Laboratory Director, Pediatric, Anatomic and Clinical Pathology. 1995–2000
 - Leukemia and Tumor Flow Cytometry
 - Continuous Quality Improvement Committee on Death Procedures
 - Pediatric Tumor Board
 - Participated in various National and International Cancer Study Groups
 - Children’s Cancer Study Group
 - National Wilms Tumor Study
 - International Rhabdomyosarcoma Study
- **St. Luke’s Hospital. San Francisco, CA.** Associate Pathology and Nuclear Medicine Physician. 1992–1994
 - Developed Concurrent Blood Usage Program (complimented by JCAHO)
 - Quality Assurance Committee
 - Transfusion Committee; Chair
 - Tissue Committee
 - Infection Control Committee
- **Mt. Zion Medical Center/University of California at San Francisco/Damon Clinical Laboratories. San Francisco, CA.** Laboratory Director. 1991–1992
 - Blood Utilization and Transfusion Committee; Chair
 - Patient Care Committee (comprised of department and committee chairs)
 - Initiated and completed College of American Pathologists laboratory certification at Damon’s new Pleasanton, CA facility
 - Co-medical Director of seven laboratories including Damon Stockton, CA and East Bay Hospital, Richmond, CA

- **NorthBay Medical Center. Fairfield, CA.** Associate Pathologist. 1989–1991
 - Introduced state-of-the-art breast tumor marker testing
 - Established quality control system for blood glucose testing
- **Meris Laboratories. San Jose, CA.** Medical Director. 1988–1989
 - Directed office of regional reference laboratory
 - Initiated College of American Pathologists laboratory certification
- **Marshal Hale Memorial Hospital. San Francisco, CA.** Associate Pathology and Nuclear Medicine Physician. 1986–1988
 - Tissue Committee; Chair
 - Infection Control Committee; Chair
 - Introduced Universal Pathogen Precautions
 - Managed committee merger with Children’s Hospital of San Francisco

Locum Tenens

Positions in Anatomic and Clinical Pathology including:

- Seton Medical Center, Daly City, CA
- Eden Medical Center, Castro Valley, CA
- Medical Laboratory Associates, Seattle, WA
- O’Connor Hospital, San Jose, CA
- Reno VAMC, Reno, NV
- Doctors Hospital, San Pablo, CA.
- Chinese Hospital, San Francisco, CA
- Kaiser, San Francisco, Vallejo, and Walnut Creek, CA
- Santa Teresa Medical Center, San Jose, CA
- Saint Mary’s Medical Center, San Francisco, CA

Medical Organization Affiliations

- American Society of Clinical Pathology Fellow
- College of American Pathologists Fellow
- American Pathology Foundation
- Society for Pediatric Pathology
- United States and Canadian Academy of Pathology
- California Society of Pathology
- South Bay Pathology Society
- Oregon Pathology Association
- Pacific Northwest Pathology Association
- California Blood Bank Society
- American Medical Women’s Association (AMWA)
 - National:** Board of Directors; Regional Governor; Regional Governor Spokesperson; Executive Committee; Program Committee; Continuing Medical Education Committee; Bylaws Committee
 - West:** Board of Directors, Branch 30 (San Francisco Bay Area)
 - Multicultural Aspects of Medicine. Organized Regional Meeting in San Francisco, CA, 1996

Perinatal and Pediatric Pathology Presentations and Publications

- **Gross Placental Pathology.** Lecture. North Bay Midwives. Napa, CA 2005
- **Placental Infections and Inflammation.** Obstetrics Grand Rounds. El Camino Hospital. Mountain View, CA. 2005
- **Indications for Placental Pathology and Placenta Previa.** Obstetrics/Pathology Grand Rounds. Washington Hospital. Fremont, CA. 2005
- **Placenta Previa.** Lecture. OB/Pediatrics meeting. Valley Care Medical Center. Pleasanton, CA. 2005
- **Placental Pathology: Beyond Apgars.** Paper presentation. Medical Women's International Association (MWIA). Tokyo. Japan. 2004
- **Placental Pathology: Beyond Apgars.** Poster presentation. National American Medical Women's Association (AMWA) Annual Meeting. San Diego, CA. 2004
- **Substance Abuse Effects on Placentas and Fetuses.** Lecture. Berkeley Low Birthweight Prevention Team. Berkeley Public Health Department. Berkeley, CA. 2003
- **Hemolytic Disease of the Newborn.** Lecture. San Jose State University, Med Tech Program. San Jose, CA. 2003
- **Pediatric Renal Tumors other than Wilms Tumor.** Lecture. Children's Hospital–Oakland Hematology Oncology Department, Oakland, CA. 2002
- **Placental Pathology.** Lecture. Ob-Gyn/Pediatric combined department meeting at Doctors Hospital, San Pablo, CA. 2002
- **Clear Cell Sarcoma, Kidney.** Case presentation and discussion, South Bay Pathology Society, Palo Alto, CA. 2002
- **Malignant Metanephric Stromal Tumor, Kidney.** Case presentation and discussion, South Bay Pathology Society, Palo Alto, CA. 2001
- **Perinatal Loss.** National AMWA Meeting. Organized half-day workshop including presentation by medical geneticist, pediatric pathologist, and social worker. San Francisco, CA. 1999
- **Hydrops: Pathogenetic Mechanisms and Differential Diagnosis.** Lecture. SUNY Downstate, Pathology Department, Brooklyn, NY. 1999
- **Parvovirus and Fetal Infection.** Case presentation and lecture. SUNY Downstate, Pathology Department, Brooklyn, NY. 1999
- **Mesenchymal Hamartoma Balanced Translocation t(5,19) Implies Pathophysiology as Neoplasm of Uncertain Malignant Potential.** L. Waters, P. Cotter, R. Williams. Poster and Presentation at Society for Pediatric Pathology, Fall Meeting, Providence, RI. 1999
- **Massive Hemolysis due to *Clostridium perfringens* Sepsis: Contaminated Blood Versus Line or Endogenous Infection.** L. Waters, C. Evans, R. Williams. Abstract, poster and presentation at Society for Pediatric Pathology, Fall Meeting, Providence, RI. 1999
- **Novel Pulmonary Granulomata Associated with Prolonged Parenteral Nutrition, MM Nasim.** L. Waters, M. Ilario, V. M. Anderson. Abstract, poster, and presentation at Society for Pediatric Pathology, Fall Meeting, Providence, RI. 1999
- **Myofibroma, Mandible.** Case presentation and discussion. South Bay Pathology Society, Palo Alto, CA. 1999

- **Molecular Diagnosis of Soft Tissue Tumors.** Lecture. Children's Hospital Oakland Hematology Oncology Conference, Oakland, CA. 1998
- **Pathology of Hepatitis: Grading and Staging.** Lecture. Children's Hospital Oakland Hematology Oncology Conference, Oakland, CA. 1998

Research

- Beyond Apgars: Clinically Unsuspected Chorangiomas (a Sign of Chronic Hypoxia) not predicted by Smoking or Asthma. *PerinatalPath*. Moraga, CA
- Gas Chromatographic Analysis of Exhaled Hydrogen in Children, Premature Infants and Dogs to Assess Intestinal Blood Flow and Saccharide Absorption. University of California at San Francisco
- Total Parenteral Nutrition and Immunological Status. University of California at Davis.
- The Relationship of Antibody Dependent Cell Mediated Cytotoxicity to Nutritional Status in Surgical Patients. University of California at Davis
- Studies of Tolerance including Ketamine in Mice and Renal Cell Carcinoma in Humans. University of California at Davis
- Suppressor Cells in Murine Splenic Tissue Culture System. University of California at Berkeley
- Mutations in *Neurospora*. Reed College. Portland, OR

Continuing Medical Education

Perinatal and Pediatric Pathology Continuing Medical Education

- Perinatal Pathology course by Dr. Ona Fay-Peterson. Society for Pediatric Pathology. Boston, MA. 2005
- Soft Tissue Tumors and Placental Pathology Courses. Pediatric Lung Development Symposium. Society for Pediatric Pathology, Spring Meeting. Vancouver, BC. 2004
- Placental Pathology Video Microscopy by Dr. Geoffrey Machin. California Society of Pathologists. San Francisco, CA. 2003
- Lysosomal Storage Disease: Therapeutics Symposium. Pediatric Pathology Courses. Society for Pediatric Pathology, Fall Meeting. Cincinnati, OH. 2003
- Pre-eclampsia. Society for Pediatric Pathology–Perinatal Symposium. Cincinnati, OH. 2003
- Pediatric Tumors. Institute of Pediatric Medical Education. Aspen, CO. 2003
- Pediatric Forensic Pathology. Institute of Pediatric Medical Education. Orlando, FL. 2002
- Biochemical & Molecular Basis of Pediatric Disease Symposium. Society for Pediatric Pathology, Fall Meeting. Dallas, TX. 2002
- Developmental Biology of the Placenta. Society for Pediatric Pathology–Perinatal Symposium. Dallas, TX. 2002
- Perinatal Pathology. Institute of Pediatric Medical Education. Snowmass, CO. 2002
- Placental Pathology course given by Robert Redline. American Society Clinical Pathology Weekend of Pathology. Santa Monica, CA. 2002
- Congenital Heart Disease. Society for Pediatric Pathology, Spring Meeting. Chicago, IL. 2002
- Pediatric Pathology Symposium. Society for Pediatric Pathology, Fall Meeting. Providence, RI. 1999

- Prenatal Screening, Diagnosis and Fetal Therapy. Society for Pediatric Pathology–Perinatal Symposium. Providence, RI. 1999
- Cystic Renal Disease Symposium. Society for Pediatric Pathology, Spring Meeting. San Francisco, CA. 1999
- Pediatric GI Pathology course. US College of American Pathologists. San Francisco, CA. 1999
- Pediatric Tumors, Pediatric Hepatology, and Liver Transplantation, Institute of Pediatric Medical Education. Aspen, CO. 1998
- Pediatric Pathology, Pediatric Gastroenterology, and Nutrition, Institute of Pediatric Medical Education. Aspen, CO. 1997
- Grand Rounds. Children’s Hospital. Oakland, CA. 1995-present.
- Pediatric Tumor Board. Children’s Hospital. Oakland, CA. 1995-present

General Pathology Continuing Medical Education

- Current Issues in Anatomic Pathology. Stanford/UC San Francisco. San Francisco, CA. 2005, 2004, 2003, 2002, 2001, 1999
- Pathology Business Retreat. Pathology Services Associates. San Antonio, TX 2005
- Bone and Soft Tissue Tumors. South Bay Pathology Society. Monterey, CA. 2005
- Genitourinary Tumors. South Bay Pathology Society. Monterey, CA. 2004
- Molecular, Anatomic and General Lab Inspector Training. College of American Pathology. San Jose, CA. 2004
- Rational Use of Molecular Studies in Leukemias and Lymphomas, Stem Cell Research and various courses and lectures. US & Canadian Academy of Pathology. Vancouver BC. 2004
- American Pathology Foundation. Las Vegas, NV. 2004
- Breast Pathology, Liver Pathology Video Microscopy and various courses and lectures. California Society of Pathologists. San Francisco, CA. 2003
- Coagulation Disorders, New Clinical Laboratory Tests, the Pathology of Infectious Diseases and various courses and lectures. CAP ’03. College of American Pathologists. San Diego, CA. 2003
- American Pathology Foundation. Orlando, FL. 2003
- Malignant Lymphoid Tumors: Hodgkin’s Disease and non-Hodgkin’s Lymphomas WHO Classification, and Pattern Diagnosis, American Society of Clinical Pathology. Las Vegas, NV. 2003
- Head and Neck Pathology. South Bay Pathology Society. San Francisco, CA. 2003
- Breast Biopsies, Pulmonary Pathology and various courses. American Society of Clinical Pathology Weekend of Pathology. San Francisco, CA. 2003
- Strategic Leadership Development for Pathologists. American Pathology Foundation. Las Vegas, NV. 2003
- Urine Cytology, Thin Prep Cytology, Forensic Pathology, Her-2-neu by FISH v Immunohistochemistry and various courses and lectures. American Society of Clinical Pathology/College of American Pathologists. Washington, DC. 2002
- Lymphomas. South Bay Pathology Society. Monterey, CA. 2002
- Lymphomas. California Tumor Tissue Registry. San Diego, CA. 2001
- Head and Neck Pathology, Bethesda Cervical Cytopathology Classification Draft, Anal Cytopathology and various courses and lectures. California Society of Pathologists. San Diego, CA. 2001