

University of California, San Francisco
CURRICULUM VITAE

Name: Teresa M Darragh, MD

Position: Professor of Clinical Pathology, Step 7
Pathology
School of Medicine

Address: University of California, San Francisco
Mission Bay Campus
1825 4th Street, Room L2181D
San Francisco, CA 94143
Voice: 415.353.7861
Fax: 415.514.5631
Email: teresa.darragh@ucsf.edu
Web: <http://pathology.ucsf.edu/about/faculty/pathology-tdarragh.html>

EDUCATION

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|-------------|---|------------------------------|---------------------------------------|
| 1976 - 1982 | University of San Francisco | B.S | Summa Cum Laude, Biology & Psychology |
| 1982 - 1986 | Cornell University Medical College | M.D. | Alpha Omega Alpha |
| 1986 - 1987 | University of California, San Francisco | Resident | Pathology |
| 1988 - 1988 | San Francisco General Hospital | Chief Resident | Pathology |
| 1988 - 1988 | University of California, San Francisco | Chief Resident | Pathology |
| 1989 - 1989 | University of California, San Francisco | Visiting Postdoctoral Fellow | Pathology |

LICENSES, CERTIFICATION

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| 1987 | Medical licensure, California (G61187) |
| 1991 | American Board of Pathology, Anatomic Pathology |
| 1995 | American Board of Pathology, Cytopathology |
| 1998 | ASCCP, Colposcopy Recognition Award |

PRINCIPAL POSITIONS HELD

| | | |
|----------------|---|---|
| 1989 - 1990 | University of California, San Francisco | Clinical Instructor, Pathology Cytology |
| 1990 - 1991 | University of California, San Francisco | Clinical Instructor, Pathology Surgical Pathology |
| 1991 - 1997 | University of California, San Francisco | Assistant Clinical Pathology Professor |
| 1997 - 2003 | University of California, San Francisco | Associate Clinical Pathology Professor |
| 2003 - present | University of California, San Francisco | Professor Pathology (Clinical X) |

OTHER POSITIONS HELD CONCURRENTLY

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|----------------|---|---------------------|----------------------------|
| 1990 - 2014 | University of California, San Francisco | Attending Physician | UCSF Dysplasia Clinic |
| 2001 - present | University of California, San Francisco | Joint appointment | Obstetrics & Gynecology |

HONORS AND AWARDS

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| 1981 | Alpha Sigma Nu | National Jesuit Honor Society |
| 1982 | Summa Cum Laude | University of San Francisco |
| 1985 | Alpha Omega Alpha | Honor Medical Society |
| 1998 | Colposcopy Recognition Award | ASCCP |
| 2006 | Award of Merit | ASCCP |
| 2008 | Meritorious Award of Scientific Achievement, 2008 ASCCP Biennial | ASCCP |
| 2010 | Meritorious Award of Scientific Achievement, 2010 ASCCP Biennial | ASCCP |
| 2012 | Meritorious Award of Scientific Achievement, CAP-ASCCP LAST Project | ASCCP |
| 2012 | President's Honor Award, Certificate of Appreciation | College of American Pathologists |
| 2013 | CAP Outstanding Service Award | College of American Pathologists |
| 2014 | President's Award | ASCCP |
| 2015 | Honorary Member | Sociedad Paraguaya de Patologia del Tracto Genital Inferior y Colposcopia |

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| 2015 | The Pathologist: Top 100 Power List 2015 https://thepathologist.com/the-power-list-2015/ | thepathologist.com |
| 2017 | Board Service Award | ASCCP |
| 2017 | Papanicolaou Award Nomination | American Society for Cytopathology |
| 2018 | Papanicolaou Award Nomination | American Society for Cytopathology |
| 2019 | 2019 Lifetime Achievement Award | Papanicolaou Society of Cytopathology |
| 2019 | Papanicolaou Award Nomination | American Society for Cytopathology |
| 2020 | Service Recognition Award for the Management Guidelines | ASCCP |

KEYWORDS/AREAS OF INTEREST

Human papillomavirus, anogenital neoplasia, cervical cancer, anal cancer, cervical cytology, anal cytology, colposcopy.

CLINICAL ACTIVITIES

CLINICAL ACTIVITIES SUMMARY

My clinical service responsibilities are with the Department's Surgical Pathology and Cytology Services. The volume of surgical and cytology specimens that I sign-out, mainly generated by the UCSF Dysplasia and growing Anal Neoplasia Clinics, is quite high and now accounts for the majority of my clinical time. As the Anal Neoplasia Clinic continues its expansion, so does my effort in this area.

CLINICAL SERVICES

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| 2017 - present | Surgical Pathology (Anal Neoplasia Clinic) and Cytopathology Services | Approximately 55% time |
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PROFESSIONAL ACTIVITIES

MEMBERSHIPS

1989 - 2007 American Society of Clinical Pathologists
1993 - 2017 Papanicolaou Society of Cytopathology
1993 - present American Society of Cytopathology
1995 - present American Society for Colposcopy and Cervical Pathology
2004 - present College of American Pathologists
2010 - present American Society of Clinical Pathologists
2012 - present International Anal Neoplasia Society

2013 - 2017 International Society for the Study of Vulvovaginal Disease

SERVICE TO PROFESSIONAL ORGANIZATIONS

| | | |
|----------------|--|----------------------|
| 1990 - 1994 | WIHS (inter-institutional): Gyn Working Group, Colposcopy subgroup | Member |
| 1990 - present | WIHS (inter-institutional): Cancer/Pathology Working Group | Member |
| 1997 - 2002 | California Department of Health Services: Breast and Cervical Cancer Control Program (BCCCP), Cytology Working Group | Member |
| 1998 - 2016 | ASCCP, Pathology Committee | Member |
| 2000 - 2012 | ASCCP, Program Committee | Member |
| 2000 - 2001 | ASCCP, Consensus Guidelines 2001 | Member |
| 2004 - 2017 | ASCCP, Board of Directors | Member |
| 2004 - 2010 | ASCCP, Pathology Committee | Chair |
| 2004 - 2006 | ASCCP, Patient Education Committee | Member |
| 2004 - 2006 | ASCCP, Ad hoc Committee on Special Populations | Member |
| 2005 - 2011 | College of American Pathologists, Cytopathology Committee, GYN | Member |
| 2006 - 2006 | ASCCP, Consensus Guidelines 2006, member at large | Member |
| 2006 - 2011 | College of American Pathologists, Cytopathology Committee, NGC | Member |
| 2006 - 2014 | ASCCP, High Resolution Anoscopy course | Co-Director |
| 2006 - 2008 | ASCCP, 2008 Biennial Meeting | Co-Director |
| 2007 - 2009 | College of American Pathologists, Steering Committee, PT Legislation | ASCCP Representative |
| 2007 - 2007 | ASCCP Algorithms Speaker's Kit, 2006 Consensus Guidelines | Reviewer |
| 2008 - 2010 | ASCCP, 2010 Biennial Meeting | Co-Director |
| 2009 - 2009 | PICSM/ASCCP Adolescents & Young Women, | Steering Committee |
| 2010 - 2011 | ASCCP, Executive Committee | Secretary |
| 2010 - 2011 | ASCCP, Executive Committee | Treasurer |
| 2010 - 2011 | ASCCP, Finance Committee | Co-Chair |
| 2010 - 2016 | ASCCP, International Education & Humanitarian Outreach Committee | Member |

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| 2010 - 2012 | American Cancer Society, Cervical Cancer Prevention Symposium, Working Group #4, Exiting from Screening | Member |
| 2010 - 2012 | CAP-ASCCP LAST Project: Standardization of HPV terminology | Co-Chair, Steering Committee |
| 2012 - 2015 | ASCCP, Executive Committee | President-elect |
| 2012 - 2016 | ASCCP, Nominating Committee | Member and Chair (2012) |
| 2012 - 2013 | ASCCP, Finance Committee | Member |
| 2012 - 2016 | ASCCP, Education Committee | Member |
| 2012 - 2014 | ASCCP, International Education & Humanitarian Outreach Committee | Member |
| 2012 - 2014 | ASCCP, Resident Education Committee | Member |
| 2012 - 2014 | ASCCP, Program Committee | Ex-Officio |
| 2013 - 2013 | 18th International Congress of Cytology | Scientific abstract reviewer |
| 2013 - 2014 | ASCCP, Executive Committee | President |
| 2014 - 2015 | ASCCP, Executive Committee | Immediate Past-President |
| 2015 - present | ASCCP | Past-President |
| 2015 - 2018 | International Anal Neoplasia Society | Board Member |
| 2015 - 2017 | ASCCP, Colposcopy Standards: Work Group 1 - Role of Colposcopy; Benefits and Harms; and Terminology. | Work Group Member |
| 2016 - 2017 | ASCCP, Practice Committee | Member |
| 2016 - present | NCI-ASCCP Research Steering Committee | Member, Steering Committee |
| 2016 - present | AIDS Malignancy Consortium (AMC) HPV Working Group | Member |
| 2016 - present | AIDS Malignancy Consortium (AMC) Translational Sciences Working Group | Member |
| 2016 - present | ANCHOR Laboratory Committee | Member |
| 2016 - present | ANCHOR QA Committee | Member |
| 2016 - present | ANCHOR Investigators' Committee | Member |
| 2017 - present | ASCCP Risk Based Management | Member, Steering Committee |
| 2019 - 2019 | World Health Organization, Workshop of Cervical Cancer Screening Round Table; Minsk, Belarus February 7-8, 2019 | Invited expert |

- 2019 - 2019 FDA Microbiology Devices Panel for the Medical Advisory Panel Member
Committee: New or alternative approaches to the development and evaluation of devices detecting HPV nucleic acid. Washington DC, March 8, 2019
- 2019 - 2019 17th International Conference on Malignancies in HIV/AIDS. NIH Campus, Bethesda MA. October 21-22, 2019. Planning Committee
- 2020 - present World Health Organization (WHO) Guideline Development Group Member
Group for Screening and Treatment (Screen and Treat) to Prevent Cervical Cancer

SERVICE TO PROFESSIONAL PUBLICATIONS

- 2002 - 2017 Editorial Board, Journal of Lower Genital Tract Disease (31 papers since 2016; 79 papers overall)
- Ad hoc referee:
- 2009 - present Cancer Cytopathology (8 papers since 2010)
- 2009 - present Journal of Cutaneous Pathology (12 papers since 2010; 15 papers overall)
- 2010 - 2011 Archives of Pathology and Laboratory Medicine (2 papers in last 5 years)
- 2010 - 2012 Sexual Health (3 papers in last 5 years)
- 2011 - 2011 Lancet Oncology (1 paper in last 5 years)
- 2011 - 2011 Acta Cytologica (1 paper in last 5 years)
- 2011 - 2012 Diagnostic Cytopathology (2 papers in last 5 years)
- 2012 - 2012 Cancer Epidemiology, Biomarkers & Prevention (1 paper in last 5 years)
- 2012 - 2012 Journal of Infectious Diseases (1 paper in last 5 years)
- 2013 - 2014 International Journal of Cancer (3 papers in last 5 years)
- 2014 - present Journal of the American Society of Cytopathology (4 papers since 2014 including 1 paper in 2020)
- 2014 - 2014 Acta Medica Academica (1 paper in last 5 years)
- 2014 - 2014 Cancer Medicine (1 paper in last 5 years)
- 2016 - present Papillomavirus Research (1 in 2016, 1 in 2017)
- 2016 - present Expert Review of Anticancer Therapy (1 paper since 2016)
- 2017 - present Journal of Lower Genital Tract Disease (4 papers since 2017)
- 2017 - present American Journal of Obstetrics and Gynecology (1 paper 2017)
- Previous ad hoc reviews:
- AIDS

- American Journal of Dermatopathology
- Journal of AIDS

INVITED PRESENTATIONS - INTERNATIONAL

- 1998 International AIDS Meeting, Anal Disease Symposium, "Anal Cytology," Geneva, Switzerland, June 27.
- International Academy of Cytology, Tutorials in Cytopathology, "Symposia on New Technologies: Anal cytology", Vienna, Austria, December 6.
- 1999 International Academy of Cytology, Tutorials in Cytopathology, Expert Panel on New Technologies - ThinPrep, Burbank, CA, Feb 7.
- 2000 Eurogin 2000, 4th International Multidisciplinary Congress, Global Challenge of Cervical Cancer Prevention, Invited lecture: "The Anus and HPV: A Pathologist's Perspective", Paris, France, April 4.
- 2003 Eurogin 2003, 5th International Multidisciplinary Congress, Global Challenge of Cervical Cancer Prevention, Invited lecture: "The Anus: A look inside." Paris, France, April 13-16.
- Africa Calls, 2003, "Liquid-Based Cervical Cytology", Annenberg Center sponsored Teleconference Series, July 22.
- 2005 International HPV Meeting/ASCCP Comprehensive Colposcopy Course, Course Faculty, Vancouver BC, April 30-May 6.
- International HPV Meeting: Public Lecture, "Screening and treatment of cervical dysplasia"
- International HPV Meeting, Session Chair: Cytology and histology, Screening methods for cervical cancer.
- 2006 University of Zimbabwe College of Health Sciences, Dept. of Obstetrics & Gynaecology in collaboration with the Well Woman Clinic, "Cervical Cancer and the Precursors" with Dr. Karen Smith McCune, March 28.
- University of Zimbabwe College of Health Sciences, Dept. of Obstetrics & Gynaecology in collaboration with the Zimbabwe Medical Society, "HPV Biology, Pathogenesis, and Vaccine Development" with Dr. Karen Smith McCune, March 29.

- University of Zimbabwe College of Health Sciences,
Depts. of Obstetrics & Gynaecology and Pathology,
"Atypical Glandular Cells: Pathology and Management",
March 30.
- 2010 Women's Wellness Centers, Tashkent, Uzbekistan;
Faculty, Cytopathology and Colposcopy; multiple lectures.
April 18-23, 2010.
- 2011 Proyecto Epidemiologico Guanacaste and the U.S.
National Cancer Institute: Anal cytology: collection
technique: HPV-related anal disease: Overview; Anal
Pathology; Liberia and San Jose, Costa Rica, May 30-
June 3, 2011.
- 14th World Congress of Cervical Pathology and
Colposcopy, ASCCP representative and Symposium Chair
and faculty; HPV-related anal disease, Rio de Janeiro,
Brazil, July 4-7.
- University of Ghana Medical School, Accra, Ghana;
Faculty, Cytopathology and Colposcopy; multiple lectures.
August 22-28, 2011.
- 36th European Congress of Cytology, Istanbul Turkey:
Slide seminar: Anal Cytology. September 23, 2011.
- 2012 Proyecto Epidemiologico Guanacaste and the U.S.
National Cancer Institute: Cervical and anal cancer
screening. Liberia, Costa Rica, Jan 30-Feb 2, 2012.
- University of Nicaragua Medical School, Managua,
Nicaragua; Faculty, Cytopathology and Colposcopy;
multiple lectures, February 10-14, 2012.
- 4to Congreso Colombiano de Patologia del Tracto
Genital Inferior y Colposcopia, Anal Cancer: Epidemiology
and Pathology, Miami, FL, August 17, 2012.
- University of Ghana Medical School, Accra, Ghana;
Faculty, Cytopathology and Colposcopy; multiple lectures.
August 20-24, 2012.
- XXIX Congress of the International Academy of Pathology,
Anal Cytology, Cape Town, South Africa, September 30-
October 5, 2012.
- 2013 San Francisco de Quito University, Cervical pathology
Conference, Quito, Multiple lectures, Ecuador, April 29-
May 2, 2013.
- 18th International Congress of Cytology, Videomicroscopy
Tutorial, The Last Project, Paris, France, May 30, 2013.

International Agency for Cancer Research (IARC), the LAST Project, Lyon, France, June 4, 2013.

Society of Obstetrics & Gynecologists of Canada, The LAST Project, Calgary, Canada, June 12, 2013.

WHO/IARC ESTAMPA Project: Pathologist Training Seminar, Bogota Columbia, September 4-7, 2013.

Australian Society of Cytology, 4 lectures, Sydney Australia, October 18-21, 2013.

Australasian Sexual Health Conference 2013, lectures: The LAST Project; Anal cancer Screening, Darwin, Australia, October 21-25.

Latin America Colposcopy Congress: The LAST Project, Buenos Aires, Argentina, November 13-15, 2013.

2014

Association of Obstetrics and Gynecology of Bogota: Anal cancer. Bogota, Columbia. February 27, 2014

International Federation for Cervical Pathology and Colposcopy. The LAST Project. London England. May 27, 2014.

Proyecto Epidemiologico Guanacaste and the U.S. National Cancer Institute: The LAST Project. Liberia, Costa Rica. July 30, 2014.

WHO/IARC ESTAMPA Project. Investigator's Meeting at the IPV. The LAST Project. Seattle, WA. August 22, 2014.

European Congress of Pathology, London, UK. The LAST Project and p16. August 31, 2014

International Anal Neoplasia Society. IANS Advanced HRA Course. Pathology for the non-pathologist. San Francisco, CA. November 14, 2014.

2015

WHO/IARC ESTAMPA Project: Pathologist Training Seminar, Institute of Public Health, Cuernavaca, Mexico, February 10-12, 2015.

Asociation Colombiana de Patologia del Tracto Genital Inferior y Colposcopia. Congreso de las Americas en Colposcopia. Cartagena, Columbia. February 26-28, 2015.

XII International Workshop of Lower Genital Tract Pathology. Multiple lectures and session chairs, Rome, Italy. March 5-7 2015.

2015 Australian Society for Colposcopy and Cervical Pathology. Multiple lectures. Cairns, Australia. May 28-31, 2015.

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| | Instituto Nacional de Cancerología, Columbia. Multiple lectures. Bogota, Columbia. July 13, 2015. | |
| | V Congreso Paraguayo de Patología del Tracto Genital Inferior y Colposcopia, Multiple lectures. Asunción, Paraguay. August 4-6, 2015 | |
| | Argentina Society of Cytology. Annual Meeting. Buenos Aires, Argentina.. September 10-12, 2015. | |
| | European Congress of Cytology. Annual Congress. Milan, Italy. September 20-23, 2015. | |
| | International Anal Neoplasia Society. IANS Advanced HRA Course. Pathology for the non-pathologist. San Francisco, CA. November 13, 2015. | |
| 2016 | Nicaraguan Ministry of Health. Conference: 1st International Cancer Congress: Cervical cancer control in the HPV era." Role of Cytology in the HPV era." Managua, Nicaragua April 22-23, 2016. | Invited Speaker |
| | Chinese Society for Colposcopy and Cervical Pathology (CSCCP). 2th CSCCP Annual Conference, Beijing, China. May 20-22, 2016. | Keynote speaker |
| | Educate the Educators, Course Faculty, Beijing, China, May 22, 2016 | Course Faculty |
| | The 19th International Congress of Cytology. Yokohama, Japan. May 28-June 1 2016. | Session Chair and Invited Speaker |
| | Africa Calls. Audio Teleconference. The LAST Project. September 28, 2016 | Invited Presenter |
| | European Federation of Cytology Societies. Liverpool, UK. October 2-5, 2016. | Session Chair and Invited Speaker |
| | International Anal Neoplasia Society. IANS Advanced Course. Pathology for the non-pathologist. San Francisco, CA. Nov 9-10, 2016. | Invited Speaker |
| | International Anal Neoplasia Society. Scientific Meeting 2016. San Francisco, CA. November 11-13, 2016. | Session Moderator |
| 2017 | International Agency for Research on Cancer. The LAST Project: Polishing the Gold Standard. Lyon, France, February 13, 2017. | Invited Presentation |
| | IFCPC World Congress. Orlando, FL. April 4-7, 2017. | Course Faculty, Session Chair, Invited Speaker |

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| | International Anal Neoplasia Society. IANS Advanced Course. Pathology for the non-pathologist. Chicago, IL. November 9-12. | Invited Speaker and Session Moderator |
| 2018 | XXV Congresso Brasileiro de Citopathologia Balneario Camboriu, Brazil. May 2-4, 2018 | Invited Speaker |
| | International Anal Neoplasia Society Scientific Meeting 2018, Montreal Quebec, Canada. June 1-3, 2018. | Invited Speaker, Session Moderator |
| | International Anal Neoplasia Society, High Resolution Anoscopy Course. San Francisco, CA. November 8-10, 2018. | Faculty Member |
| 2019 | WHO: EURO-IARC Workshop on Cancer Screening. The Pap Test: The good, the bad, and the ugly. January 16-17, 2019. Lyon, France | Invited Speaker |
| | World Health Organization (WHO), Workshop of Cervical Cancer Screening Round Table; Minsk, Belarus February 7-8, 2019 | Invited Expert and Speaker |
| | International Academy of Cytology, 2019 International Cytology Congress, Sydney Australia. May 5-8, 2019. | Invited Speaker and Session Co-Chair |
| | International AIDS Malignancy Consortium, Pathology Meeting, Arlington, VA, March 15-16, 2019 | Moderator HPV session, Invited Speaker |
| | International Anal Neoplasia Society, High Resolution Anoscopy, Standard and Advanced Courses. San Francisco, CA. July 26-28, 2019 | Faculty Member |
| | IARC / WHO CESTA Study. Training for Pathologists, Dakar, Senegal. September 23-27, 2019 | Invited Speaker and Session Coordinator |
| | 17th International Conference on Malignancies in HIV/AIDS. National Library of Medicine, Bethesda, MA. October 21-22, 2019 | Session Moderator |
| | IARC / WHO ESTAMPA Study Meeting. Liberia, Costa Rica. November 18-21, 2019 | Invited Speaker and Session Chair |
| 2020 | International Anal Neoplasia Society, Standard High Resolution Anoscopy Online Course 2020. Francisco, CA. December 3-6, 2020 | Course Faculty |

INVITED PRESENTATIONS - NATIONAL

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| 1992 | Teleconference Network of Texas, "Pathology of AIDS," April 13. |
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- Current Issues in Anatomic Pathology, "Epithelial Changes Induced by Papilloma Viruses," San Francisco, CA, May 22.
- 12th Annual Course in Fine Needle Aspiration Biopsy, "Cytology of Fine Needle Aspiration of Lung Lesions," Hawaii, August 9-15.
- 1993 14th Annual Fine Needle Biopsy Course, UCSF, "Cytology of Fine Needle Aspirates of Lung Lesions," Hawaii, August 7-14.
- UCSF Clinical Obstetrics and Gynecology and Gynecologic Histopathology, "Pathology of the Cervix," San Francisco, CA, Oct 25-29.
- 1994 15th Annual Fine Needle Biopsy Course, UCSF, "Lung FNA," Hawaii, August 13-20.
- UCSF Clinical Obstetrics and Gynecology and Gynecologic Histopathology, "Pathology of the Cervix," San Francisco, CA, Nov 3-4.
- 1995 16th Annual Fine Needle Biopsy Course, UCSF, "Cytology of Fine Needle Aspiration of Lung Lesions," San Francisco, CA, August 12-19.
- UCSF Clinical Obstetrics and Gynecology and Gynecologic Histopathology, "Pathology of the Cervix," San Francisco, CA, October 26-27.
- 1996 17th Annual Fine Needle Aspiration Course, UCSF, "Cytology of Fine Needle Aspiration of Lung Lesions," Hawaii, August 12-16.
- UCSF Clinical Obstetrics and Gynecology and Gynecologic Histopathology, "Updates in GYN Cytopathology: Automation," San Francisco, CA, October 21-25.
- 1997 18th Annual Fine Needle Aspiration Course, UCSF, "Cytology of Fine Needle Aspiration of Lung Lesions," Hawaii, August 9-16.
- UCSF, Department of Obstetrics, Gynecology, and Reproductive Sciences, Clinical Obstetrics and Gynecology and Gynecologic Histopathology, CME Course, "Gyn Cytology: AGUS Paps," San Francisco, CA, Oct 14.
- 1998 American Society for Colposcopy and Cervical Pathology, Biennial Meeting, "Papillary Lesions of the Anal Canal," Scottsdale, AZ, Mar 18-22.

- 19th Annual Fine Needle Aspiration Course, UCSF, "Cytology of Fine Needle Aspiration of Lung Lesions," Hawaii, August 9-16.
- 1999 20th Annual Fine Needle Aspiration Course, UCSF, "Cytology of Fine Needle Aspiration of Lung Lesions," Hawaii, August 9-16.
- UCSF Department of Obstetrics, Gynecology and Reproductive Sciences, CME Program: Obstetrics & Gynecology Update: What does the Evidence Tell Us? Faculty, "Managing Abnormal Paps: Clinical-Pathological Correlation," San Francisco, CA, November 4.
- 2000 ASCCP Biennial Meeting, Invited lecture: "HPV and Anal Cancer: Should We Screen and If So How?" Orlando, FL, March 15.
- ASCCP Comprehensive Colposcopy Training Course, Course Faculty, Tucson, AZ, May 11-14.
- 2001 ASCCP Comprehensive Colposcopy Training Course: Course Faculty, Santa Fe, NM, Jan 31-Feb 3.
- University of Arizona, 32nd Annual Tucson Seminar in Obstetrics and Gynecology, Tucson, Invited Lectures: "Conventional Cytology: Past Successes & Current Weaknesses" and "Liquid Based Screening for Chlamydia, HSV, GC: Multiple Screening Tests from Liquid Satisfying HEDIS Regulations," Tucson, AZ, Feb 19-21.
- Cytoc Corporation and Digene Corporation "ThinPrep HC2 Faculty Consultants Program," Seminar Faculty, Keystone, CO, Aug 16-19.
- "Unresolved Patient Management Issues in HIV, " Keynote Address: "Anal Squamous Cell Carcinoma: A Hidden Epidemic," Scottsdale, AZ, Nov 2- 4.
- 2002 ASCCP Biennial Meeting, Invited lectures: "Colposcopy of the Normal Cervix," and "Anal Intraepithelial Neoplasia," Orlando, FL, March 17 and 20.
- ASCCP, Comprehensive Colposcopy, Course Faculty, Los Angeles, CA May 16-19.
- ASCCP, The "New" Vulvovaginal Diseases, Course Faculty, Manalapan, FL, Dec. 5-8.
- 2003 UCSF-Stanford, Current Issues in Pathology, "Glandular lesions of the cervix", San Francisco, CA, May 22-24.
- ASCCP, Comprehensive Colposcopy, Course Faculty, Seattle, WA, August 7-10.

- American Society for Cytopathology, Teleconference, Evaluating the significance of atypical glandular cells (AGC): Definition and detection, October 8.
- 2004 ASCCP Biennial Meeting, Invited lectures: "The Normal Cervix" Orlando, FL, March 15.
- UCSF-Stanford, Current Issues in Pathology, "Cytology Tutorial: Gyn Cytology" and "HPV and the cervix", Course Faculty, San Francisco, CA, May 27-29.
- ASCCP, Comprehensive Colposcopy, Course Faculty, Denver, CO, Aug 12-15.
- ASCCP, Advanced Colposcopy and Lower Genital Tract Dermatology, Course Faculty, Las Vegas, NV, Dec 2-5.
- 2005 ASCCP, Comprehensive Colposcopy, Course Faculty, Santa Fe, NM, Feb. 2-5.
- Indian Health Service, Dept. of Health and Human Services, Advanced/Refresher Colposcopy Workshop, Albuquerque, NM, March 30-April 1.
- ASCCP, Comprehensive Colposcopy Course Faculty, San Francisco, CA, August 4-7.
- ASCCP, High Resolution Anoscopy Workshop, Co-Director and Course Faculty, San Francisco, CA, August 6-7.
- College of American Pathologists, CAP '05, Video microscopy tutorial: Anal Cytology, Chicago, Sept 11.
- American College of Surgeons, Prevention and Diagnosis of Anal Cancer: Pathology of AIN and the Cervical Model, San Francisco, CA, October 19.
- 2006 ASCCP Biennial Meeting, Invited lecture: "HPV-related Anal Lesions" Las Vegas, NV March 15.
- American Society of Colon and Rectal Surgeons, Annual Meeting, "Pathology of AIN and the Cervical Model", Seattle, WA June 3.
- American Society for Cytopathology, Teleconference, Anal Cytology, June 27.
- ASCCP, Comprehensive Colposcopy Course Faculty, San Diego, CA, August 3-6.
- ASCCP, High Resolution Anoscopy Workshop, Co-Director and Course Faculty, San Diego, CA, August 4-6.
- Educate the Educators: HPV Vaccines: Safety and Efficacy, San Diego, CA, August 5.

- College of American Pathologists, CAP '06, Video microscopy tutorial: Anal Cytology, San Diego, Sept 11.
- ASCCP Consensus Conference, member at large, Bethesda, MA, Sept 18-19.
- 2007 ASCCP, Comprehensive colposcopy Course Faculty, Santa Fe, NM, January 17-21.
- ASCCP, Comprehensive Colposcopy Course Faculty, Charlotte, NC, May 17-20.
- College of American Pathologists, CAP '07, HPV: The Virus and the Vaccines, Chicago, Sept 30.
- College of American Pathologists, CAP '07, The 2006 ASCCP Management Guidelines of Women with Cervical Cytological Abnormalities: what's changed? Co-presenter with Dr. Terry Colgan, Chicago, October 3.
- American Society for Cytopathology, Annual Meeting, The 2006 ASCCP Management Guidelines of Women with Cervical Cytological Abnormalities: what's changed? Co-presenter with Dr. Terry Colgan and Diane Solomon, Houston, Nov 3.
- 2008 ASCCP Biennial 2008 Meeting, Co-Director, Orlando FL. March 16-22.
- American College of OB/Gyn (ACOG), Annual Clinical Meeting, Colposcopy Update: There's a lot that's new in 2008, Course Faculty, New Orleans, May3-4.
- UCSF-Stanford, Current Issues in Pathology, "Cytology Tutorial: Anal Cytology: The Basics", San Francisco, CA May 28.
- ASCCP, Comprehensive Colposcopy, Course Faculty, San Francisco, August 7-10.
- ASCCP, High Resolution Anoscopy Workshop, Co-Director and Course Faculty, San Francisco, August 8-10.
- 2008 UCSF Practical Diagnostic Update in Gynecologic & Breast Pathology: "Cervical Dysplasia Update: The New ASCCP Guidelines", San Francisco, CA, August 29-30, 2008.
- American College of OB/Gyn (ACOG), Update on Cervical Diseases, Course Faculty, Charleston, SC, September 18-20, 2008.

- College of American Pathologists, CAP '08, The 2006 ASCCP Management Guidelines of Women with Cervical Cytological Abnormalities: what's changed? Co-presenter with Dr. Terry Colgan, San Diego, September 25.
- College of American Pathologists, CAP '08, Testing for Human Papillomavirus in the Vaccine Era. Co-presenter with Dr. David Wilbur, San Diego, CA, September 26.
- 2009 American College of OB/Gyn (ACOG), Annual Clinical Meeting, Colposcopy Update: Colposcopy Update 2009, Course Faculty, Chicago, May 2-3.
- PICSM, Symposium on Progress in Cervical Cancer Screening and Management of Cervical Abnormalities in Adolescents and Young Women, Burdens & Challenges: Cytology, Colposcopy, and Histology in Adolescents, NCI Bethesda, Maryland June 19-20.
- College of American Pathologists, CAP '09, The 2006 ASCCP Management Guidelines of Women with Cervical Cytological Abnormalities: what's changed? Co-presenter with Dr. Terry Colgan, Washington DC, October 11-14.
- College of American Pathologists, CAP '09, Testing for Human Papillomavirus in the Vaccine Era. Co-presenter with Dr. David Wilbur, Washington DC, October 11-14.
- American College of OB/Gyn (ACOG), Update on Cervical Diseases, Course Faculty, New York City, December 3-6, 2009.
- ASCCP, High Resolution Anoscopy Workshop, Course Faculty, Naples, Florida; December 12.
- 2010 MeDC's 6th Annual Update Reproductive Health and Medical Leadership, (Planned Parenthood). What's New in the Laboratory? New Technologies: Screening and Diagnosis of Cervical Neoplasia; HPV and the Anus; Salt Lake City, February 26-28.
- Society of Gynecologic Oncologists; Update: Cervical Cancer Screening and Prevention; San Francisco, CA, March 16.
- ASCCP Biennial 2010 Meeting, Co-Director, Las Vegas, NV, March 24-27, 2010.
- American College of OB/Gyn (ACOG), Annual Clinical Meeting, Colposcopy Update: Colposcopy Update 2010, Course Faculty, San Francisco, May 15-16.

UCSF Current Issues in Pathology, Cytology Seminar:
Anal Cytology, San Francisco, CA, June 2.

ASCCP, High Resolution Anoscopy Workshop, Course
Faculty, San Francisco, August 12-15, 2010.

ASCCP, Comprehensive Colposcopy, Course Faculty, San
Francisco, August 12-15, 2010.

American College of OB/Gyn (ACOG), Update on Cervical
Diseases, Course Faculty, Key Biscayne, FL, October 6-9.

American Osteopathic College of Pathologists, National
Meeting, "Anal Cancer Screening", San Francisco, October
26.

American College of OB/Gyn (ACOG), Update on Cervical
Diseases, Course Faculty, Las Vegas, November 3-6.

2011

ASCCP, High Resolution Anoscopy Workshop, Course
Faculty, Atlanta, GA, April 8-10, 2011.

American College of OB/Gyn (ACOG), Annual Clinical
Meeting, Colposcopy Update: Colposcopy Update 2011
and Interactive Case Session, Course Faculty, Washington
DC, April 30-May2.

ASCCP, High Resolution Anoscopy Workshop, Course
Faculty, San Francisco, August 12-13, 2011.

College of American Pathologist, CAP 11: The Last
Project: Preliminary Findings. Grapevine, Texas.
September 13, 2011.

ASCP Annual Meeting. Invited Speaker. "Wart's New". Las
Vegas, NV, October 20, 2011.

American College of OB/Gyn (ACOG), Update on Cervical
Diseases, Course Faculty, New York City, December 1-3,
2011.

2012

CAP-ASCCP LAST Project Consensus Conference:
Steering committee Co-chair, March 12-14, San Francisco,
CA.

ASCCP 2012 Biennial meeting, The LAST Project:
Summary and recommendations, San Francisco, March
16, 2011.

ASCT Annual Meeting: Anal Cytology Video-microscopy
Tutorial, April 13, Seattle, WA.

Indian Health Service, Colposcopy Update, Albuquerque,
NM, April 18-20, 2012.

ASCCP, Comprehensive Colposcopy, Course Faculty, Providence RI, April 26-29, 2012.

ASCCP, High Resolution Anoscopy Workshop, Course Faculty, Providence RI, April 27-29, 2012.

American College of OB/Gyn (ACOG), Annual Clinical Meeting, Colposcopy Update: Colposcopy Update 2012. May 5-6, 2012 San Diego, CA.

American College of OB/Gyn (ACOG), Annual Clinical Meeting, Interactive Case Session: Contemporary Management of the Pap Test, May 8, 2012, San Diego, CA.

ASCP, High Resolution Anoscopy Workshop, Course Faculty, San Francisco, CA, August 9-12, 2012.

CAP 12, The LAST Project, San Diego, CA, September 10-12, 2012.

ASCCP advanced Colposcopy Course, Multiple lectures, Tampa, FL, Oct 26-28, 2012.

ASCP Annual Meeting, The LAST Project, Boston, MA, November 1, 2012.

American Society of Cytopathology Annual Meeting, Video-microscopy Tutorial and The LAST Project, Nov 4-5, 2012.

Meet the Experts: Anal Cytology Screening: Why? Who? How? Webinar with Dr. Joel Palefsky. Nov 8, 2012

American College of OB/Gyn (ACOG), Update on Cervical Diseases, Course Faculty, Las Vegas, NV, November 29-December 1, 2012.

2013

ASCCP, High Resolution Anoscopy Workshop, Course Faculty, Atlanta, GA April 18-20, 2013.

American College of OB/GYN (ACOG), Annual Clinical Meeting, Postgraduate Course: Colposcopy Update 2013: New Guidelines for Screening, Terminology, and Management, May 3, 2013, New Orleans, LA.

American College of OB/Gyn (ACOG), Annual Clinical Meeting, Clinical Seminar: New Pap test and Management Guidelines, May 6, 2013, New Orleans, LA.

ASCCP, High Resolution Anoscopy Workshop, Course Faculty, San Francisco, CA. August 14-17, 2013.

ASCP Annual Meeting, The LAST Project, Chicago, IL, September 20, 2012.

CAP 13, The LAST Project, Orlando, FL, October 13, 2013.

American Society of Cytopathology Annual Meeting, Video-microscopy Tutorial Anal cytology, Orlando, FL, Nov 8-12, 2012.

American College of OB/Gyn (ACOG), Update on Cervical Diseases, Course Faculty, Chicago, IL December 12-14, 2013.

2014

Massachusetts General Hospital. Anal cancer screening. Jan 27, 2014

ASCCP Biennial Meeting, The CAP-ASCCP LAST Project. Scottsdale, AZ April 10, 2014.

American College of OB/Gyn (ACOG), Annual Clinical Meeting, Postgraduate Course: Colposcopy Update 2014: New Guidelines for Screening, Terminology, and Management, Chicago II. Apr 26-27, 2014

American College of OB/Gyn (ACOG), Annual Clinical Meeting, Clinical Seminar: New Pap test and Management Guidelines. April 28, 2014

ASCCP, High Resolution Anoscopy Workshop, Course Faculty, Denver, CO. July 15-19, 2014.

CAP 14, The LAST Project - Polishing the Gold Standard. Chicago, IL. September 2014.

ASCP Annual Meeting, The LAST Project, Tampa, FL. October 2014

ASC Annual Meeting, Anal Cytology Videomicroscopy Tutorial and Advanced Multi-headed Microscope Tutorial, Dallas, TX Nov 14-16, 2014

American College of OB/Gyn (ACOG), Update on Cervical Diseases, Course Faculty, New York, NY. December 4-6, 2014.

American College of OB/Gyn (ACOG), Annual Clinical Meeting, Postgraduate Course: Colposcopy Update 2015: New Guidelines for Screening, Terminology, and Management, San Francisco, May 2-6, 2015

2015

USCAP Annual Meeting - CAP Companion Meeting. From Top to Bottom: Biomarkers and Human Papilloma Virus Associated Tumors of the Anogenital Region and Head and Neck. Boston, MA. March 23, 2015.

American College of OB/Gyn (ACOG), Update on Cervical Diseases, Course Faculty, Chicago, April 23-25, 2015

American College of OB/Gyn (ACOG), Annual Clinical Meeting, Postgraduate Course: Colposcopy Update 2015: New Guidelines for Screening, Terminology, and Management, San Francisco, CA. May 4, 2015

ASCCP, High Resolution Anoscopy Workshop, Course Faculty, San Diego, CA. July 22-26, 2015.

American Society of Dermatopathology, Annual Meeting. Invited speaker. San Francisco, CA. October 10, 2015

American Society for Cytopathology, Annual Meeting. Seminar Chair and Sign-out with the Professor. Chicago, IL. November 14-16, 2015.

2016 ASCCP Annual Meeting. Case-based course. New Orleans, LA. April 13, 2016 Faculty Member

American College of OB/Gyn (ACOG), Annual Clinical Meeting, Postgraduate Course: Colposcopy Update 2016: New Guidelines for Screening, Terminology, and Management. Washington DC, May 16, 2016 Faculty Member

UCSF Current Issues in Pathology. San Francisco, CA. May 26, 2016. Faculty Member

ASCCP, High Resolution Anoscopy Workshop, Course Faculty, Providence, RI. July 27-30, 2016. Faculty Member

Educate the Educators, Course Faculty, Providence, RI. July 28, 2016 Faculty Member

ASCCP, Comprehensive Colposcopy, Course Faculty, Phoenix, AZ. October 26-29, 2016. Faculty Member

2017 Lenox Hill Hospital, Norwell Health. Anal Cancer Screening: Why? Whom? How? New York City, NY. February 2, 2017. Invited Speaker

Memorial Sloan-Kettering Cancer Center. Anal Cancer: Another HPV-associated cancer. New York City, NY. April 26, 2017. Visiting Professor 2017

Indian Health Service, Colposcopy Update, Albuquerque, NM, May 15-16, 2017. Faculty Member

American Society of Colon and Rectal Surgeons, Annual Meeting, Seattle, WA June 10, 2017. Faculty Member

ASCCP, High Resolution Anoscopy Workshop, Course Faculty, San Diego, CA. July 26-29, 2017. Faculty Member

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|------|---|-------------------|
| | Southwestern Gynecologic Assembly 2017. Dallas, TX. December 1-2, 2017. | Invited Speaker |
| 2018 | American Society of Colon and Rectal Surgeons, Annual Meeting, Nashville, Tennessee. June 19, 2018. | Faculty Member |
| | UCSF Current Issues in Pathology. San Francisco, CA. May 25, 2018. | Faculty Member |
| | ASCCP, Comprehensive Colposcopy, Course Faculty, Denver, CO. July 25-28, 2018. | Faculty Member |
| 2020 | 2020 Indian Health Review and Update on Colposcopy and HPV. Albuquerque, NM. February 18, 2020. | Faculty Member |
| | ASCCP Annual Scientific Meeting on Anogenital & HPV-Related Diseases March 31 - April 3, 2020 Orlando, Florida. Changed to virtual meeting. | Session Moderator |
| | ASCCP Risk-Based Consensus Guidelines for Management of Abnormal Cervical Cancer Screening Results.. ASC Cyto-econference. August 25, 2020. | Invited Speaker |

INVITED PRESENTATIONS - REGIONAL AND OTHER INVITED PRESENTATIONS

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| 1988 | California College of Podiatric Medicine, "Thyroid," "Bone Tumors I & II", San Francisco, CA. |
| | California Society for Histotechnology, Northern Chapter, "AIDS: An Overview," SF, CA, April 12. |
| | California Society of Cytotechnologists, "AIDS: Safety in the Laboratory," San Francisco, CA, Oct 1. |
| 1989 | California College of Podiatric Medicine, "Thyroid," "Pathology of AIDS," National Board Review, "Bone Tumors I & II," First Quarter Review, San Francisco, CA. |
| | California Society for Histotechnology, Annual Symposium/Convention, "AIDS: An Overview," San Mateo, CA, May 21. |
| 1990 | California College of Podiatric Medicine, "Thyroid," "Pathology of AIDS," Second Quarter Review, National Board Review, "Bone Tumors I & II," First Quarter Review, San Francisco, CA. |
| | California Society for Histotechnology, Northern Chapter, "Pathology of AIDS," Berkeley, CA, April 12. |
| | Tumor Registry Training Program, "Introduction to the Pathology of Neoplasia," San Francisco, CA, Aug 7 and Nov 6. |

- 1991 Urology Resident Teaching Grand Rounds, "Testicular Pathology," UCSF, San Francisco, CA, Feb 27.
Fine Needle Aspiration Tutorials, Advanced tutorial, UCSF, San Francisco, CA, Oct 12.
California Society of Cytotechnologists, "Clinical Aspects of the Abnormal Pap Smear, SF, CA, Nov. 16.
- 1992 Education Programs Associates, "Introduction to Colposcopy and Slide Review," Campbell, CA, Jan 14.
Education Programs Associates, "Pathology of the Uterine Cervix," Campbell, CA, Jan 14, May 12, Sept 15.
UCSF Department of Pathology Grand Rounds, "Pathology of the Uterine Cervix," SF, CA, August 5.
- 1993 Education Program Associates, "Pathology of the Uterine Cervix," Campbell, CA, Jan 4, May 3, Oct 11.
Bay Area Seminars in Cytopathology, "Epithelial Changes Induced by Papilloma Viruses," San Francisco, CA, January 14.
UCSF Department of Ob/Gyn, Resident Core Lecture, "The Bethesda System," SF, CA, April 13.
- 1994 Education Program Associates, "Pathology of the Uterine Cervix," Campbell, CA, Jan 3; May 2; Santa Rosa, Sept 28.
- 1995 Education Program Associates, "Pathology of the Uterine Cervix," Campbell, CA, Feb 20, May 9, Oct 9.
Bay Area Seminars in Cytopathology, "Gynecologic Cytology," San Francisco, CA, February 9.
California Association of Cytotechnologists, "Colposcopy and HPV related lesions," SF, CA, April 1.
Bay Springs Medical Group, "The Pap Smear," San Francisco, CA, May 1.
- 1996 Education Program Associates, "Pathology of the Uterine Cervix," Campbell, CA, January 8, May 6.
- 1997 Bay Area Seminars in Cytopathology, "AGUS"; "GYN Cytology: Thin-layer Preparation," San Francisco, CA, Feb 12-13.
Education Program Assoc., "Pathology of the Uterine Cervix," Campbell, CA, Jan 28, May 18, 19.
Women's Health 2000: "The Pap Smear," San Francisco, CA, March 8.

- UCSF, Fresno Campus, Dept. Ob/Gyn, Grand Rounds: "Gyn Pathology, What's New?" Fresno, CA, June 5.
- Basic Colposcopy Education Program, Education Program Associates, Inc., "Risk Factors"; "Pap Technique"; "Correlation of T-Zone and Pap Cyto/Pathology of the Cervix," Campbell, CA, October 6.
- UCSF, Department of Obstetrics, Gynecology, and Reproductive Sciences, Grand Rounds, "Gynecologic Cytology: What's New?" San Francisco, CA, October 21.
- UCSF Department of Obstetrics, Gynecology, and Reproductive Sciences, Grand Rounds, "GYN Pathology Conference: AGUS Paps," San Francisco, CA, October 28.
- 1998 Projects in Knowledge, "Controversies in Cervical Cancer Screening," San Francisco City Club, Apr 14.
- Summer Health Care, Northeastern Ohio Medical College, Department of Ob/Gyn Grand Rounds, "Gyn Cytology: What's New," May 15.
- California Society of Cytotechnologists, "Anal Neoplasia, San Francisco, June 7.
- 1999 Surgical and Gynecological Oncology: Symposia on ThinPrep Paps, March 22, San Francisco CA.
- UCSF GYN Resident's Core Lecture: Gyn Cytology, San Francisco, CA, May 18.
- Education Program Associates: Basic Colposcopy Education Program, Campbell, CA, Feb 22, Oct 11.
- Hutzel Hospital/Wayne State University: Ob/Gyn Grand Rounds, GYN Cytology: What's New? Detroit, MI, October 5.
- 2000 UCSF Departments of Pathology/Laboratory Medicine Grand Rounds, "What Does Squamous Carcinoma Look Like? A Diagnostic Perspective," San Francisco, CA, January 18.
- California Family Health Council, Basic Colposcopy Education Program, Campbell, CA, Feb 7, Oct 2.
- UCSF GYN Resident's Core Lecture: GYN Cytology: Atypical Glandular Cells, SF, CA, June 13.
- Local Education Lectures, "Improving Accuracy of Cervical Screening," Portland OR, Sept. 14.
- 2001 St. Luke's Hospital, San Francisco: Grand Rounds: "Improving Accuracy of Cervical Screening," San Francisco, CA, Feb 15.

- UCSF Departments of Pathology/Laboratory Medicine Grand Rounds, "Anal Dysplasia and Cancer: Charting the Course of a New Clinical Entity," San Francisco, CA, October 30.
- California Family Health Council, Basic Colposcopy Education Program, "Risk Factors, Pap Technique, Correlation of T-Zone and Pap Cyto/Pathology of the Cervix" Campbell, CA, Nov 5- 9.
- California Society of Pathologists 54th Annual Convention, Annual Symposium: Update in GYN Cytopathology, San Diego, CA, Nov 28.
- 2002 Medical Education Programs, "Recent Advances in Gyn Cytology," Los Angeles, CA, March 5.
- Medical Education Programs, "Update on Gyn Cytology," Long Beach, CA, March 26.
- Grand Rounds, Marin General Hospital, "Bethesda 2001 Update", San Rafael, CA, Nov 13.
- 2003 3M Teaching Series, Anal Cancer: An Emerging Problem, Fort Lauderdale, FL, September 18.
- California Society of Pathologists 55th Annual Convention, Gyn cytology - Glandular lesions, San Francisco, CA, December 3-6.
- 2004 UCSF GYN Resident's Core Lecture: Bethesda 2001, San Francisco, CA, Feb 10.
- Grand Rounds, Dominican Hospital, Bethesda 2001 Update: Glandular Lesions, Santa Cruz, CA, March 26.
- Baysprings Medical Group, Liquid-Based Cytology, San Francisco, CA, May 5.
- California Family Health Council, Basic Colposcopy Education Program, "Risk Factors, Pap Technique, Correlation of T-Zone and Pap Cyto/Pathology of the Cervix" Campbell, CA, May 21.
- California Society of Cytotechnologists, Annual Meeting. "Bethesda 2001 Updates: Glandular Cell Abnormalities" and "Anal Cytology Workshop," Santa Clara, CA, June 5.
- Grand Rounds, Sutter Warrack Hospital, "What's New in Cervical Cancer Screening", Santa Rosa, CA, June 15.
- 2005 UCSF GYN Resident's Core Lecture: "Atypical glandular cells: Diagnosis and management". San(Francisco, CA, May 24.

- UCSF Pathology Residents, Teaching Conference, "Gynecologic Cytology", San Francisco, CA, May 25, June 1, June 8.
- UCSF Radiation Oncology Grand Rounds: "HPV-related disease of the Anus", San Francisco, CA, August 19.
- WIHS In-service: Glandular Diseases of the Cervix, San Francisco, August 25.
- California Pacific Medical Center, "Glandular Lesions of the Cervix", San Francisco, CA, November 4.
- 2006 Kaiser Regional Laboratory: "Glandular Lesions of the Cervix", Berkeley, CA, February 16.
- Northern California Kaiser, Pathology Meeting, "Updates: HPV-Related Disease of the Cervix", October 21.
- 2007 New York State Society of Pathologists: "Anal Cytology: The Basics", Syracuse, NY, May 5.
- WIHS In-service, HPV and the anus, San Francisco, August 23.
- 2008 Mt. Sinai Medical Center: "Anal Cytology: The Basics", New York City, February 22.
- Mt. Sinai Medical Center: "Anal Cytology and Histology: Microscopic Tutorial", New York City, February 22.
- Albert Einstein College of Medicine: "HPV and the Anus", New York City, February 22.
- UCSF Pathology Residents, Teaching Conference, "Gynecologic Cytology I and II" and microscopic unknown session, San Francisco, CA, April 23 and April 28.
- Santa Barbara Cottage Hospital, Grand Rounds, "HPV and the Anus" Santa Barbara, CA, October 23.
- 2009 UCSF Pathology Residents, Teaching Conference, "HPV-related Lower genital tract disease and more", San Francisco, CA, June 3, June 5 and June 12.
- 2010 UC Davis, Pathology Department Grand Rounds. "What's new in anal cancer screening?" HPV and the Anus. Sacramento, CA April 5.
- 2011 UCSF Pathology Residents, Teaching Conference, "Cervical cancer screening: What's new in the laboratory", "The Bethesda System: Squamous abnormalities", "The Bethesda System: Glandular abnormalities", San Francisco, CA, May 20, 25, and 27, 2011.

- UCSF Pathology Residents, Teaching Conference, Gynecologic Cytology Part 1 and 2, San Francisco, CA, December 7 and 9, 2011.
- 2012 University of New Mexico, OB/GYN Grand Rounds, Anal Cancer Screening, Albuquerque, NM, April 20, 2012.
Inland Northwest Academy of Family Physicians: Primary Care Update. Anal Cancer Screening: When, How and Who; Spokane, WA, May 4, 2012.
- 2013 Kaiser Santa Clara, Department of Ob/Gyn. Updated Cervical Screening and Management Guidelines. Santa Clara, CA July 25, 2014.
- 2015 UCSF Pathology Residents, Teaching Conference. Bethesda System Updates and the LAST Project. June 15-16, 2015.
UCSF Gyn Oncology Fellows' Didactic Lecture. The LAST Project. August 25, 2015
- 2016 UCSF Pathology Residents, Teaching Conferences. and Glass Slide Review. November 21, November 23 and November 28, 2016.
- 2017 UCSF Pathology Residents, Teaching Conferences. October 30 and November 3, 2017.
- 2018 UCSF Pathology Residents, Teaching Conferences. Cervical Cancer Screening. October 12, 2018.
- 2019 UCSF Pathology Residents, Teaching Conferences. Anal Cancer Screening. February 11, 2019.
UCSF Pathology Residents, Teaching Conferences. Cervical Cancer Prevention. October 14, 2019.
UCSF Pathology Residents, Teaching Conferences. Anal Cancer Prevention. October 25, 2019.
- 2020 UCSF Cytopathology Fellows Didactic Talks: Anal Cancer Screening. August 14, 2020
UCSF Pathology Residents, Teaching Conferences. HPV-associated anogenital lesions: Part 1 and 2. November 2 and 4, 2020.

GOVERNMENT AND OTHER PROFESSIONAL SERVICE

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|-------------|---|--------------|
| 1999 - 1999 | NAIAD Scientific Review Panel/Special Emphasis Panel (STDs) | Panel Member |
| 2001 - 2001 | National Cancer Institute, Bethesda 2001: Specimen Adequacy Forum | Co-moderator |

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| 2001 - 2001 | NIH/ASCCP Consensus Conference on the Management of Cytologic Abnormalities and Cervical Cancer Prevention | Delegate-at-large |
| 2004 - 2004 | California State Assembly, Testimony in support of SB35, Re: Cytotechnologists' workload limits | Business and Professions Committee |
| 2004 - 2005 | 22nd International HPV Conference | Planning Committee Member |
| 2005 - 2006 | 2006 NIH/ASCCP Consensus Conference on the Management of Cytologic Abnormalities and Cervical Cancer Prevention | Delegate-at-large |
| 2005 - present | Women's Interagency HIV Study: Cancer / Pathology Work Group | Member |
| 2007 - 2009 | College of American Pathologists, Steering Committee, Cytology Proficiency Testing Improvement Coalition, ASCCP Representative: HR 1237: and S.2510 Cytology Proficiency Testing Legislation | ASCCP Representative |
| 2008 - present | California Department of Health Care Services, Cancer Detection Section, Cervical Expert Work Group | Member |
| 2009 - 2009 | Practice Improvements in Cervical Screening and Management (PICSM): Steering committee, Adolescent & Young Women sub-group | Member |
| 2010 - 2011 | ASCCP/PICSM: The Role of Molecular Testing Symposium. Working group #4: Exiting Women from Screening | Member |
| 2010 - 2012 | CAP-ASCCP LAST Project: Standardization of terminology for histopathology of HPV-related squamous ano-genital disease | Co-Chair, Steering Committee |
| 2013 - present | International Agency for Research on Cancer (IARC) -- ESTAMPA study | Central Coordinating Group |
| 2017 - present | NCI AIDS Malignancy Consortium, HPV Working Group | Member |
| 2017 - present | NCI AIDS Malignancy Consortium, Translational Sciences Working Group | Member |
| 2017 - present | NCI ANCHOR study: Laboratory, Quality Assurance, and Investigators' Committees | Member |
| 2018 - 2019 | International Conference on Malignancies in HIV/AIDS (ICMH) | Planning Committee, Member |
| 2018 - 2019 | FDA: Microbiology Devices Panel of the Medical Devices Advisory Committee, Center for Devices and Radiological Health | Consultant |

2020 - present World Health Organization (WHO) Guideline Development Group Member
Group for Screening and Treatment (Screen and Treat) to
Prevent Cervical Cancer

UNIVERSITY AND PUBLIC SERVICE

SERVICE ACTIVITIES SUMMARY

I have been actively involved with three professional organizations: the American Society for Colposcopy and Cervical Pathology (ASCCP), the College of American Pathologists (CAP) and the International Anal Neoplasia Society (IANS). I recently retired (April 2017) from the Board of Directors and Executive Committee of the ASCCP; I served as President of the Society in 2013-2014. I also served on the editorial board for the Society's Journal of Lower Genital Tract Disease for 15 years. I am currently a member of the steering committees for the joint ASCCP and NCI's Risk-based Management and Research Collaboration; we are in the process of updating the national management guidelines for abnormal cervical cancer screening tests results..

I was co-chair of the steering committee for the LAST Project, a joint national consensus conference sponsored by the ASCCP and the CAP on the standardization of terminology for the histopathology of HPV-associated muco-cutaneous squamous neoplasia of the lower anogenital tract. As champion of the proposal, I was the leader of the steering committee and I oversaw the working groups along with my co-chair, Dr. David Wilbur of Harvard Medical School, Massachusetts General Hospital. Our national consensus conference was held in March 2012 with representatives from both national and international professional organizations. The consensus recommendations were jointly published in CAP's and ASCCP's journals in July 2012; the manuscript was republished in its entirety in the International Journal of Gynecology Pathology in January 2013. We have had multiple educational presentations at annual medical society meetings including CAP, ASC, and ASCP in 2012 - 2015. The LAST Project's recommendations for squamous intraepithelial lesions for the cervix, vagina, and vulva have been adopted by the World Health Organization.

In addition, for 2 years, I served on the Board of Directors of the International Anal Neoplasia Society — a multidisciplinary group of international clinicians and scientists interested in the basic science, diagnosis, and management of anal cancer and its precursors.

UCSF CAMPUSWIDE

1999 - 2001 Chancellor's Advisory Committee on the Status of Women.

SCHOOL OF MEDICINE

1988 - 1989 Medical Student Admissions Committee

1990 - 1991 Medical Student Admissions Committee, Emergency
Interviewer

1994 - 1997 UCSF Cancer Committee

1997 - 2000 UCSF Practice Guidelines Committee: Management of
Abnormal Cervical Cytology

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|-------------|---|--------|
| 2017 - 2017 | Department Chair Stewardship Review Committee, School of Medicine | Member |
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DEPARTMENTAL SERVICE

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|----------------|---|--------------------|
| 1990 - 2013 | Colposcopy Training, Preceptor, UCSF Dysplasia Clinic | |
| 1991 - 1994 | Resident Selection Committee, Dept. of Pathology | Member |
| 1998 - 2002 | Medical Student Pathology Course | Gyn section leader |
| 2002 - present | Cytopathology Attending Service Schedule | Administrative |
| 2014 - present | Cytopathology Fellowship Program Evaluation Committee | Member |
| 2014 - 2017 | Search Committee for Director of Cytopathology, Department of Pathology | Member |

COMMUNITY AND PUBLIC SERVICE

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|-------------|---|------------------------------------|
| 1997 - 2007 | Plaza Veterinary Hospital, ½ day per week | Volunteer |
| 2004 - 2004 | California State Assembly, Testimony in support of SB35, Re Cytotechnologists' workload limits. | Business and Professions Committee |
| 2004 - 2013 | New Century Chamber Orchestra | Member, Board of Directors |
| 2006 - 2008 | New Century Chamber Orchestra | Chair, Development Committee |
| 2007 - 2009 | College of American Pathologists, Cytology Proficiency Testing Improvement Coalition, ASCCP Representative: HR 1234: and S.2510 Cytology Proficiency Testing Legislation. | Steering Committee |
| 2009 - 2011 | Supporting Network, a non-profit on-line support network for grieving parents | Member, Board of Directors |

TEACHING AND MENTORING

TEACHING SUMMARY

My teaching responsibilities at UCSF and beyond are extensive. At UCSF, I have been involved with didactic teaching in the medical and pharmacy/physical therapy students' courses. I gave didactic lectures on gynecologic pathology and cervical pathology. I also led laboratory sessions and/or small group sessions for medical students. I regularly give lectures to both the pathology and gynecology residents. In 2016 and 2018, I was faculty at the Current Issues CME course sponsored by the UCSF Department of Pathology.

I frequently give invited lectures or serve as a faculty member for CME courses for several professional organizations in the United States. Additionally, I continue to be invited to speak at

multiple international meetings of professional societies in Latin America, Australia, Europe, Africa, and Asia. My expertise is in the fields of HPV-associated cervical and anal cancer prevention, including screening, diagnosis and management.

MENTORING SUMMARY

I have formally mentored three faculty members in the Department of Pathology. However, those that I have informally mentored include college students, medical students, resident, fellows, and physicians in multiple disciplines in clinical practice both nationally and abroad. It is extremely gratifying to have those that I have trained and collaborated with consider me a “mentor”. It is an important part of the professional legacy that I hope to leave behind.

RESEARCH AND CREATIVE ACTIVITIES

RESEARCH AND CREATIVE ACTIVITIES SUMMARY

My primary research interest is in human papillomavirus (HPV)-associated anogenital neoplasia. For over 30 years, I have been actively involved with multiple clinical research projects investigating HPV-associated anogenital tract disease in men and women, both immunocompetent and immunosuppressed. I collaborate with researchers in multiple disciplines -- here at UCSF and nationally and internationally. At UCSF, I have been co-investigator on multiple research projects collaborations with Drs. Joel Palefsky (Medicine, Laboratory Medicine and Stomatology), Barbara Moscicki (formerly Pediatrics – Adolescent Medicine), Ruth Greenblatt (Medicine, Epidemiology), Karen Smith-McCune (Obstetrics and Gynecology) and their teams. In all of these studies, we have investigated HPV-associated anogenital disease in a variety of patient populations.

I have several current collaborations with the National Institutes of Health. For the cervical cancer projects with the National Cancer Institutes in Guanacaste, Costa Rica, I am the QI pathologist for the cervical and anal cancer studies. On a separate NIH project, I am the pathology coordinator for the centralized review of cervical cancers for the HTMCP project for whole genome sequencing of cervical cancer in African women, both HIV-infected and uninfected. With Dr. Nico Wentzensen at the NCI, I am involved a project investigating the role of automated analysis of p16 immunostaining for improved diagnosis of cervical precancers.

In addition, I am continuing with very exciting collaborations with the International Agency for Cancer Research (IARC), the cancer research arm of the World Health Organization. The ESTAMPA study is evaluating cervical cancer screening strategies in fifty thousand women in Latin America. I have provided two 4-day training sessions for ESTAMPA pathologists in Bogota, Columbia (September, 2014) and Cuernavaca, Mexico (February, 2015). I am providing ongoing pathology QI and education for the project. As central pathology reviewer for the study, I have been spending approximately 4 weeks a year at IARC headquarters in Lyon, France reviewing study slides and providing feedback to the sites. More recently, I have contributed my pathology expertise to additional cervical and anal cancer prevention projects with IARC including those in sub-saharan Africa, Bhutan, and France. In January 2019, I was also part of a cervical cancer advisory panel for the WHO in Belarus, Minsk.

In collaboration with Dr. Joel Palefsky, who received a large multi-site award from the NCI, I am the central pathology reviewer for the Anal Cancer/HSIL Outcomes Research Study (ANCHOR). A main study goal is to clarify whether or not treatment of anal HSIL changes the natural history and rate of progression of high-grade lesions to invasive disease. Over 5000 subjects with HIV disease and biopsy-proven anal HSIL will be followed for 5 or more years. The two study arms are treatment of anal HSIL and active observation. I also the designated

central pathology reviewer for HPV studies in the AIDS Malignancy Consortium (AMC). I have also been the study pathologist for national multi-site studies funded by the NIH (WIHS, ongoing) and the CDC (SUN Study, completed) and others.

These ongoing projects, as well as completed studies, have resulted in multiple publications that continue to elucidate the role of HPV in anogenital neoplasia and plan optimal prevention, screening, and management strategies for patients worldwide.

RESEARCH STUDIES

Research Studies, major, ongoing:

ANCHOR: NCI Anal cancer study - Central Pathologist

AIDS Malignancy Consortium (AMC): HPV working group - Multiple studies, Study pathologist and QC pathologist for multiple studies

UCSF Anal Neoplasia Studies: Multiple studies, Study pathologist

NIH/NCI Guanacaste Costa Rica: Consultant and QC pathologist, cervical and anal cancer studies

ESTAMPA: WHO/IARC Cervical cancer screening in Latin America - Central pathologist and Coordinating group

HTMCP: Cervical cancer genome sequencing project - Study pathologist and coordinator. WIHS (Women's Interagency HIV Study), UCSF site: Study pathologist

Research Studies, major, completed:

ACTG 293 (AIDS Clinical Trial Group): Protocol group, study pathologist

CIN2 in young women, Northern CA Kaiser/UCSF: Study pathologist

GRACE Study (Yale University): Study pathologist

Kaiser Anal Screening Study, Consultant Pathologist

MIRA, HPV substudy, Zimbabwe: (Bill and Melinda Gates Foundation) Consulting Pathologist

New York/Washington DC Gay Men's Study: Consulting pathologist

Paris HPV Study: Study pathologist

REACH Adolescent HIV Study (inter-institutional): Study pathologist

HIV Net Explore Study (multi-site): Study pathologist

SMART (NIH sponsored, multi-site): Study Pathologist

SUN (CDC sponsored): Multi-site: Study pathologist (Ended September 2012)

Teen HPV Natural History Study: Study pathologist (1990-2013)

WIHS (inter-institutional), Anal sub-studies: Study pathologist

RESEARCH AWARDS - CURRENT

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|---|-----------------|------------|--------------------------------------|
| 1. U01 HL146242 | Co-investigator | 2 % effort | Tien, Auouizerat, Greenblatt (PI) |
| NIH/NHLBI | | 4/1/2019 | 3/31/2026 |
| SF Bay Area MACS/WIHS Combined Cohort Study (MWCCS) | | | \$ 2,699,911 total |

This study will recruit, enroll, and follow 380 men and women with and at risk for HIV over a 7 year study period to study the progression of HIV with specific focus on aging outcomes (cardiac, lung, neurocognitive, and physical function, and cancer), HIV pathogenesis, and health disparities.

Site Pathologist

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| 2. 3U01CA121947-07S1 | Co-Investigator | 30 % effort | Palefsky (PI) |
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| NIH/NCI | 2013-09-01 | 2019-08-31 |
| ANCHOR Study | \$ 686,170 (subcontract only) direct/yr 1 | |

The primary objective of this project is to determine the effectiveness of treating anal high-grade intraepithelial neoplasia (HSIL) to reduce the incidence of anal cancer in HIV-infected men and women. Secondary objectives are 1) determine safety of infrared coagulation, electrocautery, iniquimod, 85% trichloroacetic acid and 5-fluorouracil treatments for anal HSIL and 2) collect clinical specimens and data to create a bank of well-annotated specimens that will enable: a) studies of the molecular pathogenesis of progression from precancer to cancer.

Site and Central Pathologist

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| 3. R01CA217715 | Co-Investigator | 2 % effort | Palefsky (PI) |
| NIH/NCI | | 06/01/2017 | 05/31/2020 |
| New therapeutic HPV vaccines for HIV-infected men and women | | \$ 125,000 direct/yr 1 | |

The aims of this project is to compare the distribution of HPV genotypes and sequence variation of HPV 16 oncogenes in cervical and anal cancers in Russian and American HIV-infected and uninfected men and women, compare expression of PD-L1 and PD-1 in HPV-associated cancers, HSIL and in immune cells, in HIV-infected and HIV-uninfected men and women, characterize HIV-related factors that modulate PD-L1 expression in HPV 16-transformed epithelial cells, characterize HIV-related factors influencing the transformation phenotype of HPV 16-immortalized epithelial cells and Measure the immunogenicity and efficacy of HPV therapeutic vaccine candidates in murine models, and measure the effects of HIV PI and PD-1/PD-L1 binding inhibition on immune response and efficacy.

Study Pathologist

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| 4. R01CA232887 | Co-Investigator | 3 % effort | Tugizov (PI) |
| NIH/NCI | | 12/1/2018 | 11/30/2023 |
| Role of HIV in acceleration of HPV malignancy | | | |
| The goal of this project is to investigate the role of HIV in development of HPV-associated cervical and anal cancer. | | | |
| Pathology review; advisory | | | |

RESEARCH AWARDS - SUBMITTED

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| 1. 12748003 | Co-Investigator | 20 % effort | Palefsky (PI) |
| NIH U54 | | | |
| California-Mexico-Puerto Rico Partnership (CAMPO) Center for Prevention of HPV-related Cancer in HIV+ Populations | | | |
| Major Goals: 1. To perform research focused on reducing the risk of cervical cancer in HIV-positive women and anal cancer in HIV-positive women and men living in the Latin America and Caribbean region 2. To build local capacity for research focused on reducing the risk of cervical cancer and anal cancer in HIV-positive populations in the Latin America and Caribbean region | | | |
| Central Pathology | | | |

RESEARCH AWARDS - PAST

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| 1. | R01 CA085178 NIH/Nat'l Cancer Institute Albert Einstein College 9-526-4875 Subcontract HPV & Cervix Neoplasia in Large Long Term HIV Evaluate all CIN biopsy H&Es in this study and provide input regarding cervical pathology. Role: PI | (Prime) 2012-05-01 | 2014-04-30 |
| 2. | 14-NIH-1105 Duke University subcontract Novel coherence imaging to evaluate the health of the cervical epithelium NIH Will test the clinical feasibility and performance of several novel low coherence interferometry (LCI) tools that will be developed at Duke Universtiy's Department of Bioengineering, to include the multiplex-LCI, a/LCI point probe, wide-area a/LCI, and multimodal LCI. Role: Will provide expert pathology evaluation of all biopsy samples collected at both UCSF and Duke. | 2014-03-01 | Hwang (PI) 2015-02-28 \$ 311,875 total |
| 3. | R01 CA51323-07 NIH/NCI "Natural History of HPV in Teens--Infection to Neoplasia" Aims: Examine the natural history of HPV in a cohort of young women aged 13-22 years and the association between specific risk factors (high level viral persistence, Chlamydia trachomatis, herpes simplex virus, oral contraceptive use, cigarette use, biologic cervical immaturity) and immune response associated with the development of high grade squamous intraepithelial lesion (CIN 2/3) | 1990-07-01 | Moscicki (PI) 2014-03-30 \$ 1,016,404 total |
| 4. | RC1 A186051-01 NIH/NIAID "Mucosal immune response of the anus in women to HPV, intercourse, smoking and OCs" The goal of this application is to examine mucosal immune profiles in the anus of women to specific environmental exposures, specifically human papillomavirus (HPV), anal intercourse, tobacco and oral contraceptives (OC). Role: Co-Investigator | 2010-09-23 | Moscicki (PI) 2011-08-31 |
| 5. | 1 U01 A1052748-01A1 NIH/NIAID "Solid Organ Transplantation in HIV: Multi-Site Study" National multi-center trial to assess safety and efficacy of solid organ transplantation in HIV positive patients. Role: Co-Investigator | 2003-08-15 | Stock (PI) 2012-08-31 |

6. P-07-020

Gateway for Cancer Research. Phase II Study for Prevention of Anal Cancer through Use of a Chinese Herbal Topical Cream

The specific aims of this project are to conduct a Phase II randomized blinded cancer integrative medicine Chinese herb efficacy trial for treatment of anal HSIL in HIV-positive people; identify potential biologic pathways and mechanisms by which the Chinese traditional medicine intervention may have an effect. Role: Co-Investigator

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| 7. | RO1 CA88739 NCI/NIAID Anal HPV Infection and ASIL in HIV+ and HIV- Women" | Co-investigator | 2001-05-01 | Palefsky (PI) 2008-04-30 \$ 602,927 total |
| Aims: 1) Study the natural history of anal HPV and ASIL infection among HIV-positive and high risk HIV-negative women in the highly active antiretroviral therapy (HAART) era; 2) Compare these to cervical HPV infection and CSIL; and 3) Analyze genetic changes in ASIL women and compare these to CSIL in the same subjects. | | | | |
| 8. | HHSN261200800590P NIH/NCI A Study Investigating the Association of HPV-Related Biomarkers with the Detection of Anal Precancer and Cancer in HIV-Positive Men Who Have Sex with Men (MSM) | Co-investigator | 2008-09-01 | Castle (PI) 2009-07-15 \$ 17,290 total |
| Aims: Evaluate the clinical performance of a variety of biomarkers for identifying anal precancer and cancer in HIV-positive MSM | | | | |
| 9. | FND#21082 Bill & Melinda Gates FND#21082 Preventing HIV by protecting the cervix | Co-investigator | 2002-10-01 | Padian (PI) 2007-09-30 \$ 13,539,226 total |
| This Multi-site randomized, controlled trial will measure the effectiveness of the diaphragm in preventing heterosexual acquisition of HIV infection among women. | | | | |
| 10. | U01 A134989 03 NIH/NIAID "Bay Area Women's HIV Study" | Co-Investigator | 2 % effort 01/1/2013 \$ 482,444 direct/yr 1 | Greenblatt (PI) 12/31/2018 |
| Aims: Study of the natural history of HIV infection and related conditions among women. Role: Co-Investigator Site Pathologist | | | | |

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| 11. P30 Supplement Subcontract NIH/NCI University of Maryland Greenebaum Cancer Center Support Grant Nigerian Anal Cancer To provide training and mentoring to Nigerian trainees on high resolution anoscopy. Pathology training for Nigerian pathologist; advisory. | Co-Investigator | 2 % effort 8/1/2015 | Palefsky (PI) 7/31/2016 |
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NON-PEER REVIEWED PUBLICATIONS

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2. Wasserman PG, Schwartz MR, DARRAGH TM: Understanding HPV testing's place in primary screening. **CAP Today**, 21(1):39-39-47, January 2007.
3. DARRAGH TM, Colgan TJ: ASCCP '06 Consensus Guidelines - What's New and Different? **CAP Today**, 21(11):93-98, November 2007.
4. Sturgis CD, DARRAGH TM: Anal Cytology: Life Saving Potential at Low Cost. **CAP Today**, 30(1):38-10, January 2016.

BOOKS AND CHAPTERS

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4. DARRAGH TM: College of American Pathologists, 2007 FNA-A Online Education Activity, Giant Cell Tumor of Bone.
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8. Fatheree L, DARRAGH TM: College of American Pathologists, 2010 PAP-A Online Education Activity, Paget's Disease, Gynecologic cytology.

SIGNIFICANT PUBLICATIONS

1. Saslow D, Solomon D, Lawson HW, Killackey M, Kulasingam SL, Cain J, Garcia FA, Moriarty AT, Waxman AG, Wilbur DC, Wentzensen N, Downs LS Jr, Spitzer M, Moscicki AB, Franco EL, Stoler MH, Schiffman M, Castle PE, Myers ER; ACS-ASCCP-ASCP Cervical Cancer Guideline Committee (DARRAGH, TM, member): American Cancer Society, American Society for Colposcopy and Cervical Pathology, and American Society for Clinical Pathology. Screening guidelines for the prevention and early detection of cervical cancer. **CA Cancer J Clin. 2012 May-Jun;62(3):147-72.**
Am J Clin Pathol. 137:516-542, July 2012.
J Low Genit Tract Dis. 16(3):175-204, July 2012.

These are the updated national cervical cancer prevention screening guidelines. I was a member of the working group that performed the comprehensive literature review regarding the age to stop screening women. I also participated in the consensus conference and the writing of the manuscript.

2. DARRAGH TM, Colgan TJ, Cox JT, Heller DS, Henry MR, Nayar R, Palefsky JM, Stoler MH, Wilkinson EJ, Zaino RJ, Wilbur DC: The Lower Anogenital Squamous Terminology Standardization Project for HPV-associated Lesions: Background and Consensus Recommendations from the College of American Pathologists and the American Society for Colposcopy and Cervical Pathology.
J Low Genit Tract Dis. 16(3):205-242, July 2012.
Arch Pathol Lab Med. 2012 Oct; 136(10):1266-97. Epub 2012 Jun 28.
Int J Gynecol Pathol. 2013 Jan;32(1):76-115.

I conceived and organized the CAP-ASCCP LAST Project; I am lead author of the manuscript. After a comprehensive literature review, the project aimed at synthesizing our current knowledge of HPV-associated squamous lesions of the lower anogenital tract and providing recommendations for harmonizing terminology for these lesions regardless of body site and recommendations for the judicious use of biomarkers to enhance diagnostic accuracy. Over 50 multidisciplinary experts participated in the working groups. The project culminated in a consensus conference attended by representatives of the major national and international professional organizations in the field. The complete manuscript was published simultaneously in the journals of the two sponsoring organizations and subsequently published in the International Journal of Gynecologic Pathology. The recommendations from the LAST project have been adopted by the World Health Organization for the cervix, vagina, and vulva.

3. DARRAGH TM, Winkler B, Souers RJ, Laucirica R, Zhao C, Moriarty AT; College of American Pathologists Cytopathology Committee. Room for improvement: initial experience with anal cytology: observations from the College of American Pathologists interlaboratory comparison program in nongynecologic cytology. **Arch Pathol Lab Med. 2013 Nov;137(11):1550-4. doi: 10.5858/arpa.2012-0574-CP. PMID: 24168493**

Considered an expert in anal cytology, I helped develop the anal cytology portion of the College of American Pathologists Interlaboratory Comparison Program. This study represents the findings of the first 6 years of experience with this specimen type in the program. I designed the study, analyzed the data and am lead author on the manuscript.

4. Berry JM, Jay N, Cranston RD, Darragh TM, Holly EA, Welton ML, Palefsky JM. Progression of anal high-grade squamous intraepithelial lesions to invasive anal cancer among HIV-infected men who have sex with men. **Int J Cancer. 2014 Mar 1; 134(5):1147-55. PMID: 23934991**

This is the latest of multiple publications that have resulted from my involvement with clinical research projects on precancers and cancers of the anal canal. This study provides important evidence supporting the progression of anal precancer to invasive disease -- an important step in developing the evidence base to support screening for anal cancer in at-risk populations. I am responsible for the pathology for this and multiple other studies. I also participated in the writing of this manuscript.

5. Moscicki AB, Darragh TM, Berry-Lawhorn JM, Roberts JM, Khan MJ, Boardman LA, Chiao E, Einstein MH, Goldstone SE, Jay N, Likes WM, Stier EA, Welton ML, Wiley DJ, Palefsky JM. Screening for Anal Cancer in Women. **J Lower Genit Tract Dis.** 2015 Jul;19(3 Suppl 1):S26-41. doi: 10.1097/LGT.0000000000000117.

This is a comprehensive review of the literature regarding anal cancer screening in women co-sponsored by the American Society of Colposcopy and Cervical Pathology and the International Anal Neoplasia Society. I was the head of the section responsible for the review of the literature on anal HPV, precancers and cancer in the general population of women. I am lead author of this section and helped review the entire manuscript.