

**University of California San Francisco
CURRICULUM VITAE – prepared 3/10**

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EDUCATION:

1976-80	University of Nevada, Reno, NV	B.S.	Pre-Med
1980-84	University of Nevada School of Medicine	M.D.	
Oct 1982	U.S. Naval Hospital, Oakland, CA	Elective	Surgical Pathology
Feb 1983	U.S. Naval Hospital, San Diego, CA	Elective	Dermatopathology
Apr 1984	Dade County Medical Examiner's Office, Miami, FL	Elective	Forensic Pathology
1984-85	U.S. Naval Hospital, Oakland, CA	Intern	Categorical Path
Jan 1985	San Francisco Medical Examiner's Office		
Aug 1985	Armed Forces Institute of Pathology, Bethesda, MD		Forensic Pathology
1985-86	U.S. Naval Hospital, Oakland, CA Combined Anatomic/Clinical Pathology	Resident	
1986-88	University of California, San Francisco, CA Electives in Surgical Pathology, Neuropathology, Dermatopathology, Hematopathology.	Resident	
1987-88	U.S. Naval Hospital, Oakland, CA	Chief Resident	Pathology

LICENSES, CERTIFICATION:

National Board of Medical Examiners, Parts I, II, III, completed 1984

California Medical License, 1985

American Board of Pathology (AP/CP), May 1988

Special Qualification in Cytopathology, June 1994

Thin Prep Procedure Training, Cytyc Corporation, Boston, MA, October 2003

PROFESSIONAL EXPERIENCE:

Jul 2002-current	<u>Clinical Professor of Pathology</u> , Department of Pathology, University of California, San Francisco, CA; at San Francisco General Hospital, promoted to Level II, Spring 2005.
Oct 2001-current	<u>Clinical Chief of Pathology</u> , Department of Anatomic Pathology, San Francisco General Hospital. Responsibilities include surgical pathology, cytology,

hematopathology, and renal pathology.

Jul 1996-Jun 2002 Associate Clinical Professor, Director of Cytopathology, Department of Pathology, University of California, San Francisco, CA.

Dec 1990-Jun 1996 Assistant Clinical Professor, Director of Cytopathology, Department of Pathology, University of California, San Francisco, CA; at San Francisco General Hospital.

1988-1990 Laboratory Director and Pathologist, U.S. Naval Hospital, Guam.
Director, Fine Needle Aspiration Clinic.
Chairman, Surgical Case Review Committee.
Chairman, Blood Component Utilization Committee.
Deputy Medical Examiner, Armed Forces Medical Examiner's Office, Armed Forces Institute of Pathology.
Deputy Medical Examiner, Marianas Islands, Micronesia.

Aug 1990 Consultant, George Lucas Film Productions, Skywalker Ranch, CA, San Francisco General Hospital.

Jul-Nov 1990 Surgical Pathologist, Kaiser Hospital, San Rafael, CA.

HONORS AND AWARDS:

Teaching Recognition. Runner up for Robert Lull M.D. Annual Teaching Award at SFGH, June 2009.
Physician Ambassador, selected to visit the People's Republic of China, member of the Oncology Delegation, National Physician Ambassadors Program, September 17-29, 2005.
Letter and Gift of Appreciation, National HIV/AIDS Consultation Center, August 23, 2004.
Teacher of the Year, UCSF Pathology Resident Award, 2000-2001.
Teacher of the Year, UCSF Pathology Resident Award, 1993-1994.
Letter of Appreciation for presentation at UCSF General Surgery Grand Rounds, from Dr. William Schechter, Chief of General Surgery, San Francisco General Hospital, 1991.
Naval Achievement Medal for outstanding performance as Lab Director and Pathologist, U.S. Naval Hospital, Guam, July 1990.
Letter of Appreciation for efforts in passing JCAHO inspection, from Commanding Officer, Capt. Lindsay, U.S. Naval Hospital, Guam, May 1990.
Commissioned Officer, highest rank achieved: Lt. Commander, U.S. Navy, 1982-1990.
Armed Forces Health Professions Scholarship, U.S. Navy, May 1982.

AREAS OF PROFESSIONAL INTEREST:

Cytopathology, surgical pathology, forensic pathology, hematopathology, renal pathology, immunofluorescence and electron microscopy.

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

California Tumor and Tissue Registry, 2000 – current.
American Society of Cytopathology, 2000 – current.
International Academy of Cytopathology, 1998 – current.

HOSPITAL SERVICE COMMITTEES:

Breast Tissue Committee, San Francisco General Hospital, presenter, monthly meeting, 1990 – current.
Admissions Committee, UCSF Medical School, Panel II member and interviewer, 2000 – 2008.

Breast Interdisciplinary Committee, San Francisco General Hospital, participating member, monthly, 2001 – current.
 Quality Assurance, Performance Improvement and Personnel Safety Committee, San Francisco General Hospital, participating member, 2003.
 Continuing Education Advisory Committee, UCSF Department of Laboratory Medicine at San Francisco General Hospital, participating member, 2000.
 Hematology/Oncology Clinic, newly formed.

OTHER ROLES:

Pathology Consultant, National HIV/AIDS Clinicians' Consultation Center, HRSA AIDS Education and Training Centers, March 2006 – current.
 California Tumor and Tissue Registry Coordinator, resident teaching, submission of interesting specimens to the Registry to share as material for teaching, 2002 – current.
 ASC Tech Samples Coordinator, SFGH, monthly, ongoing.
 ASCP Check Sample Coordinator, Department of Pathology, San Francisco General Hospital, 1990 – 1994.

TEACHING:Formal Scheduled Classes for UCSF Students:

Qtr	Academic Year	Course No. and Title	Nature of Contribution	Class Size
F	1991-2000	Path 101 Pre-Fall Basic Pathology	Small group leader 6 hrs in 4 sessions	12
S	1991-2001	Path 102	Male Genital System Pathology 1 hr lecture	160
S	1991-2000	California College of Podiatric Medicine Pathology Course	Endocrine Pathology 2 hr lecture	100
S	1994-2000	California College of Podiatric Medicine Pathology Course	Male Genital System Pathology 1 hr lecture	100
S	1996-2002	Pathology 102	Laboratory Proctor	75
F	2006-2007	Pathology – Tumor Block	Small group leader	15
S	2006-current	Pathology Labs	Lab attending	15

Post-Graduate Courses Sponsored by UCSF:

1985-1998 "Bay Area Seminars in Cytopathology" Lecture Series.
 Aug 1991 Annual Cytopathology Course, Aspen, CO.
 May 2002, 2003 Lecture and microscopist at UCSF/Stanford combined course, 2 hrs:
 "Deep Abdominal FNA's".

Lectures, Conferences, and Seminars: 1991 – current:

Lecture Bethesda System: Pros and Cons, April 1, 1995, California Association of Cytotechnologists, Spring Meeting, San Francisco.
 Grand Rounds "Gynecologic Cytology", UCSF Pathology Department, Nov 16, 1994 and

	Nov 13, 1996.
Seminar	Presenter at Bay Area Seminars in Cytopathology, UCSF, Dec 1995.
Grand Rounds	"Lymphoma/Autologous Bone Marrow Transplant", UCSF General Surgery Grand Rounds, Sept 1994.
Grand Rounds	"Fine Needle Aspiration Cytology", UCSF Pathology Department, Oct 1998.
Grand Rounds	Case Presentations, UCSF Renal Grand Rounds, Oct 1999.
Grand Rounds	"Basics of Fine Needle Aspiration Cytology", UCSF Department of Pathology Grand Rounds, Jan 2000.
Lecture	"Breast Cancer - A Multidisciplinary Approach", San Francisco General Hospital, July 24, 1994.
Review	Boards Review in Cytopathology for UCSF residents, May 1993 (2 hrs).
Lecture	"Cytopathology and Immunology of HIV Related Lymphomas", Advanced Topics In Pathology Lecture Series, UCSF Department of Pathology, Aug 1992.
Tumor Board Symposium	Case Presenter: 1 hr every other week. International Academy of Cytology Annual Symposium, Vienna, Austria, Dec 1998.
Conference	ASCP Check Sample presenter/coordinator, various topics, 1 hr per week.
Course	World AIDS Conference, Durban, South Africa, July 2000. Small group instructor for "Interpretation of FNA" of deep seated lesions at the Annual UCSF/Stanford Problems and Controversies course in May, 2002 – current.
Conference	International Congress of Cytology, Santiago, Chile, April, 2004.
Conference	Diagnostic Surgical Pathology, sponsored by Harvard Medical School Continuing Education, Florence, Italy, June, 2006.
Conference	Pathology Update, sponsored by Harvard University, Montreal, Canada, July 9-13, 2007.
Conference	Pathology Update, sponsored by Harvard University, Lake Garda, Italy, June 2009.

House Staff Teaching:

Informal Renal Pathology review with San Francisco General Hospital Nephrologists - weekly.
 "Cytopathology paps of the week" conferences 1 hr week on Fridays.
 Cytopathology lecture series including gynecologic, body fluids, and fine needle aspiration cytology, 1 hr per week on Mondays.
 Supervising residents and fellows in hands on experience performing fine needle aspiration biopsies. Signing out gynecologic and anal PAP smears, and cervical, endometrial and other biopsies with the cytology residents and fellow 2 hrs per day.
 Full time supervisor/instructor for the two cytopathology fellows, each of whom spends six months of their one year fellowship at SFGH 8 hrs per day.
 Surgical Pathology - 1990-current at SFGH, approximately 4-5 months per year.
 Bone marrow signout/instruction with clinical pathology residents at SFGH 2 hrs per week.
 Body fluid signout/instruction with clinical pathology residents at SFGH 1 hr per week.
 Renal Pathology Conference once every two months.
 Renal and Rheumatology conference at SFGH, quarterly.
 Preparing a web-based self-study program on cytology, including digital images, for the University of California at San Francisco.

Teaching Awards

1993-1994 "Teacher of the Year", UCSF Pathology Resident Award
 2000-2001 "Teacher of the Year", UCSF Pathology Resident Award

Postdoctoral Fellows in Cytopathology:

Dates	Name	Current Position
Dec 1990	Matthew Zarka, M.D.	Pathologist Scottsdale, AZ
Jan – Jun 1991	Howard Epstein, M.D.	Pathologist Los Angeles, CA
Jul – Dec 1991	John Musicant, M.D.	Pathologist, Pathology Lab Mercy San Juan Hospital, Carmichael, CA
Jan – Jun 1992	Gary Mockli, M.D.	Pathologist/Cytopathologist St. Louis, MO
Jul – Dec 1992	Vivek Bhargava, M.D.	Pathologist Stanford Medical Center
Jan – Jun 1993	David Cartwright, M.D.	Pathologist St. Agnes Hospital, Fresno, CA
Jul – Dec 1993	Karen Axelsson, M.D.	Pathologist Kaiser, Oakland, CA
Jan – Jul 1994	Jeff Goates, M.D.	Pathologist Rose Medical Center, Denver, CO
Jul – Dec 1994	Brian Jeffrey, M.D.	Pathologist St. Joseph's Hospital, Tampa, FL
Jan – Jun 1995	Imok Cha, M.D.	Pathologist Marin General Hospital, Greenbrae, CA
Jul – Dec 1995	Nancy Li, M.D.	Pathologist, Long Beach Memorial Hospital, CA
Jan – Jun 1996	Steve Long, M.D.	Pathologist Dr. Adele's Group, Sacramento, CA
Jul – Dec 1996	Harris Goodman, M.D.	Pathologist Highland Memorial Hospital, Oakland, CA
Jan – Jun 1997	Anne Drejet, M.D.	Assistant Clinical Professor University of Vermont
Jul – Dec 1997	Christina Kong, M.D.	Pathologist, Chief of Cytopathology Stanford University
Jan – Jun 1998	Daniel Sudilovsky, M.D.	Pathologist Case Western University, Cleveland, OH
Jul – Dec 1998	Kirk Jones, M.D.	Associate Clinical Professor UCSF
Jan – Jun 1999	Eva Liberman, M.D.	Pathologist Seton Medical Center, San Francisco, CA
Jul – Dec 1999	Lisa Tai, M.D.	Pathologist/Cytopathologist Mills Peninsula Hospital, Burlingame, CA
Jan – Jun 2000	Brenda Ng, M.D.	Pathologist El Camino Hospital, Palo Alto, CA

Postdoctoral Fellows in Cytopathology (cont.):

Dates	Name	Current Position
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Jul – Dec 2000	James Bainton, M.D.	Pathologist Kaiser Medical, South San Francisco, CA
Jan – Jun 2001	Ron Balassanian, M.D.	Pathologist Pittsburgh, PA
Jul – Dec 2001	Rick Baehner, M.D.	Pathologist UCSF, Mt Zion
Jan – Jun 2002	Carol Trujillo, M.D.	Pathologist Colorado Springs, CO
Jul 2002 – Jun 2003	Joseph Rabban, M.D.	Pathologist UCSF, Moffitt Hospital
Jul 2002 – Jun 2003	Lorelle Carley, M.D.	Pathologist Alta Bates Hospital, Berkeley, CA
Jul 2003 – Jun 2004	Dawn Darbonne, M.D.	Pathologist Santa Clara Valley Med Center, San Jose, CA
Jul 2003 – Jun 2004	Phil Holsten, M.D.	Deceased
Jul 2004 – Jun 2005	Erich Schwartz, M.D.	Pathologist Stanford University
Jul 2004 – Jun 2005	Robert Haas, M.D.	Pathologist Denver, CO
Jul 2005 – Jun 2006	Mathew Greenberg, M.D.	Private practice Portland, OR
Jul 2005 – Jun 2006	Kristin Jensen, M.D.	Stanford University VA Medical Center
Jul 2006 – Jun 2007	Judy Pang, M.D.	Clinical Instructor UCSF at SFGH
Jul 2006 – Jun 2007	Ian Jaffee, M.D.	California Pacific Medical Center San Francisco, CA
Jul 2007 – Jun 2008	Annemieke Van Zante, M.D.	Attending Pathologist UCSF at Mt Zion
Jul 2007 – Jun 2008	Becky Swain, M.D.	Pathologist Alta Bates Medical Center, Berkeley, CA
Jul 2008 – Jun 2009	Joan Bernard, M.D.	Pathologist Santa Clara Valley Med Center, San Jose, CA
Jul 2008 – Jun 2009	Veronica Velasco, M.D.	Kaiser Medical Center San Francisco, CA
Jul 2009 – Jun 2010	Stephanie McAlhany, M.D.	Cytopathology Fellow UCSF
Jul 2009 – Jun 2010	Poonam Vohra, M.D.	Cytopathology Fellow UCSF

Summary of Teaching Hours

Past Year: 1550 hours
 Current Year: 1550 hours
 Future Years: 1550 hours

SUMMARY OF TEACHING RESPONSIBILITIES:

My primary and educational role at SFGH is instructing our fellows and residents in the performance and interpretation of fine needle aspiration biopsies, in particular, but also in all aspects of pathology. I spend many hours giving individual instruction to the resident on cytology each week. We go out to the various clinics and inpatient wards on an as call basis and perform fine needle aspiration biopsies of diverse body sites. Each resident performs up to 50 fine needle aspirations during their three month rotation at SFGH. I supervise all biopsies; generally I will perform one aspirate and the resident performs the second on each patient we see in consultation. We give rapid interpretations on all radiologically localized fine needle aspirations obtained via CT, fluoroscopy, and ultrasound. Gynecologic cytology is another primary role at SFGH. This is a major problem area in pathology that requires extensive one on one instruction at the microscope to become experienced at. I spend approximately 2-3 hrs/day signing out PAP smears with the residents. I also sign out the concurrent cervical biopsies at the same time making the SFGH rotation probably the only one in our program where this type of cyto-histo correlation is achieved. Anyone involved in cytopathology understands how important this type of correlation is for a complete understanding of the field. Our computer system allows us to achieve nearly 100% cyto-histo correlation on fine needle aspirations and their follow-up biopsies or resections. Because of our unique ability to offer this kind of teaching, I feel we have a pivotal role for the residents. I expect cytology to play an ever increasing role in the future of pathology. Residency programs that emphasize it, such as UCSF, are superior programs. This year I have added unknown bone marrow and renal cases of the week done each Friday so the residents can start early on seeing some of the diseases in these two important areas.

Our two cytopathology fellows each spend 6 months of their one year fellowship here at SFGH. There is a widely varied assortment of pathology in fine needle aspirations and gynecologic cytology. The fellows have a pivotal role here in co-instructing our residents. I trade one week rotations in fine needle aspirations/body fluid signout vs gynecologic cytology signout with them after their initial mentoring period. I allow them as much autonomy as is appropriate for them to learn confidence in their abilities in performance/interpretation as well as instructional style with the residents. They share in the teaching responsibilities on a day to day clinical basis with the residents as well as our two one hour lectures in assorted cytology topics given on Monday and Friday mornings. The fellows really respond to this kind of responsibility. For most of the fellows, this is their first post residency experience in functioning as a pathologist. I feel that all of the fellows have left here with a good fundamental knowledge of cytology as well as the confidence to do well in their future positions. The success of our cytopathology fellows has been phenomenal. Even with the critical shortage of positions, all of our fellows have found excellent jobs in diverse locations, academic and community. Our residents and fellows have told me many times that SFGH is their favorite Anatomic Pathology rotation and the cytopathology fellowship is the most sought after in our program. We definitely have had the "cream of the crop" from our program and other programs for the fellowship.

I feel very fortunate to be able to help in instructing these intelligent doctors. The future of cytopathology hinges on teaching and advocacy by the residents and fellows.

Until 2009, I sign out the bone marrow biopsies with the clinical pathology residents during their hematology rotation here at SFGH. We have hired Dr. Zane Amenhotep for that role currently. In addition to teaching, we correlate flow cytometry results and cytogenetics on the pertinent cases; in preparing our reports. Flow cytometry, in conjunction with the immunology laboratory clinical resident, is extensively used in surgical and cytopathology in the diagnosis of lymphomas. I sign out body fluid cases with the clinical pathology residents as well (1 hr/wk).

My teaching responsibilities often extend to other clinical specialties here at SFGH. Residents from surgery, internal medicine, family practice, and OB/GYN often request to either observe us while performing fine needle aspirations or to have instruction in how they are done. We are planning a

SUMMARY OF TEACHING RESPONSIBILITIES (cont.):

thyroid fine needle aspiration clinic at SFGH where my teaching role will be greatly expanded with the endocrinology fellows and staff.

I have been involved in didactic teaching at the medical school and at the California College of Podiatry Medicine. I have been a small group leader in the Pre-fall Pathology course, which entails discussion of basic pathology concepts for six hours in four sessions. These pathology fundamentals are crucial to the future understanding of disease in any chosen specialty. I gave a 1 hr lecture in Male Genital system pathology in the spring quarter at the medical school as well as the podiatry school (CCPM). I also gave a 2 hr endocrine pathology lecture each spring at the podiatry school until 2000.

My newest responsibility at SFGH involves interpreting all renal biopsies including immunofluorescence, and electron microscopy. I also review the skin immunofluorescence cases. I show these to our residents at SFGH when the cases are complete. The nephrologists come to our department to review every renal biopsy and discuss the findings. There is a bi-monthly CPC renal conference that I attend or present at.

My other teaching efforts in the community have involved cytology. I lectured on "The Bethesda Systemic Pros and Cons" at the California Society of Cytopathologists meeting at the Cliff House in San Francisco in April 1995. I lectured at our first Breast Cancer Symposium at SFGH in July 1994 on "The Role of Cytology in Breast Pathology". I have given two Grand Rounds at UCSF on "Gynecologic Cytology" and one on FNA cytology, and a lecture on HIV lymphoma cytology at the "Advanced Topics" lecture series at UCSF. I have also given a 2 hour boards review in cytology to the UCSF pathology residents. For the first time in May 2002 I taught around the microscope on "Deep abdominal FNA" in the cytology portion of the UCSF/Stanford combined course.

Recently in 2008-2009, I prepared as an educational tool a compact disc with images of all cytology sections I teach to the residents. The CD includes a self-assessment test for the end of their rotation as well as a printable handout to accompany the images. This material is also available for the residents and fellows on their desktop computers. I have already received several comments of appreciation from faculty members and residents who found these "excellent cytology teaching powerpoints" to be "among my most useful study aids" in passing the AP/CP board exam, for example.

SUMMARY OF CURRENT CLINICAL ACTIVITIES:

I am on clinical duties 100% of the time at San Francisco General Hospital (SFGH). I evaluate and sign out all of our renal biopsies. I sign out all cytology specimens with our two cytology fellows per year and approximately 50 to 60% of all surgical specimens. As Director of Clinical Services at the Department of Pathology at SFGH, I play the part of the "go to" guy for problem cases. I pride myself on being a "jack of all trades" and relish my teaching role with our residents.

RESEARCH:

Co-investigator with Dr. Judith Luce, Avon Breast Cancer Grant for underserved populations at San Francisco General Hospital (\$12,000,000). Primary focus: Tissue banking, clinical and epidemiologic studies, basic science in conjunction with Dr. Grey and Britt-Marie Ljung at Mt. Zion/UCSF Cancer Center.

- Associate member, UC Cancer Center, Fall 2001 – current.
- New tissue banking system, January 2001 – current.

NIH-funded research with Dr. Kurland, Mayo Clinic, and Dr. Perl, Mt. Sinai Medical Center, New York City, on ALS/Parkinson's Disease/Alzheimer's Complex of Guam (Lytico-Bodig Disease), July

1988-July 1990.

PUBLICATIONS:

1. Roll GR, Lee A, Royaie K, Visser B, Hanks DK, Knudson M, Roll FJ. Acquired A amyloidosis from injection drug use presenting with atraumatic splenic rupture in a hospitalized patient: a case report. Manuscript submitted to the Journal of Medical Case Reports, March, 2010.
2. Gratton SB, et al. Manuscript on a right axillary node demonstrating classical Hodgkin lymphoma with nodular sclerosis features. Manuscript accepted to Arthritis Care and Research, February, 2010.
3. Egan KK, Hanks DK, Kim DW, Murr AH. An auricular mass in a 42-year-old man. eMedicine Case Presentations, <http://cme.medscape.com/viewprogram/17498>, October 15, 2008.
4. Kim TB, Hanks DK. Colon cancer metastasized to the thyroid gland: A case report. Manuscript being prepared for submission to peer-reviewed journal, 2008.
5. Egan K, Hanks DK, Kim DW, Murr AH. Coccidioidomycosis presenting as midline neck mass. Otolaryngology – Head and Neck Surgery, 136(1):147-148, 2007.
6. Hoxworth JM, Hanks DK, Araoz PA, Elicker BM, Reddy GP, Webb WR, Leung JW, Gotway MB. Lymphoepithelioma-like carcinoma of the lung: Radiologic features of an uncommon primary pulmonary neoplasm. American Journal of Roentgenology, 186(5):1294-1299, 2006.
7. Vidulich K, Hanks D, Etzell JE. Iron in neoplastic cells of plasma cell myeloma. American Journal of Hematology, 81(3):216-217, March, 2006.
8. Bhatia V, Roldan E, Moore DH, Hanks D, Cheng J, Lane K, Benz C, Knudson M, Luce JA. Estrogen receptor positivity improves breast cancer survival prognosis for all underserved ethnic groups except African Americans. Poster presentation at the 2005 American Society of Clinical Oncology Meeting. May 15, 2005. (Abstract no. 9591).
9. Lee T, Young T, Hanks DK, Ung R, Stansell J. The evaluation of anal dysplasia with anal cytology following high-resolution (“anal colposcopy”) with biopsy in men infected with human immunodeficiency virus (HIV). In Program and Abstracts of the XV International AIDS Conference; July 11-16, 2004; Bangkok, Thailand (Abstract ThOrB1407).
10. Lee T, Young T, Liu L, Hanks DK, Ung R, Stansell J. CD4, HIV viral load and use of antiretroviral therapy (ART) for HIV infected MSM with anal dysplasia at a community clinic. In Program and Abstracts of the XV International AIDS Conference; July 11-16, 2004; Bangkok, Thailand (Abstract MoPeB3250).
11. Co-author with Dr. Ernie Ring of two “Cases of the Month” for American Journal of Radiology accepted for publication, April, 2004.
12. Stabernack CR, Eger EI, Warnken UH, Forster H, Hanks DK, Ferrell LD. Sevoflurane degradation by carbon dioxide absorbents may produce more than one nephrotoxic compound in rats. Canadian Journal of Anaesthesia, 50(3):249-252, March, 2003.
13. Myers C, Charboneau A, Cheung I, Hanks D, Boudreau N. Sustained expression of homeobox D10 inhibits angiogenesis. American Journal of Pathology, 161(6):2099-2109, December, 2002.

14. Gotway MB, Marder SR, Hanks DK, Leung JW, Dawn SK, Gean AD, Reddy GP, Araoz PA, Webb WR. Thoracic complications of illicit drug use: an organ system approach. *Radiographics*, 22:Spec No:S119-S135, October, 2002.

PUBLICATIONS (cont.):

15. Sawaya GF, Brown AD, Washington AE, Garber AM. Current approaches to cervical cancer screening. *New England Journal of Medicine*, 344(21):1603-1607, May, 2001. Dr. Hanks was acknowledged for contributing all photomicrographs and their captions.
16. Gotway MB, Tchao NK, Leung JW, Hanks DK, Thomas AN. Sarcoidosis presenting as an enlarging solitary pulmonary nodule. *Journal of Thoracic Imaging*, 16(2):117-122, April, 2001.
17. Sellami D, Gotway MB, Hanks DK, Webb WR. Minute pulmonary meningotheial-like nodules: Thin-section CT appearance. *Journal of Computer Assisted Tomography*, 25(2):311-313, March – April, 2001.
18. Hanks D, Bhargava V. Fine needle aspiration diagnosis of HIV related conditions: A state of the art review. *Pathology*, 4(2):221-252, 1996.
19. Nash PA, McAninch JW, Bruce JE, Hanks DK. Sono-urethrography in the evaluation of anterior urethral strictures. *Journal of Urology*, 154(1):72-76, July, 1995.
20. Jacobson MA, Hanks DK, Ferrell LD. Fatal acute hepatic necrosis due to fluconazole. *American Journal of Medicine*, 96:188-190, February, 1994.
21. Mockli G, Hanks D, Jeffrey PB. Papillary carcinoma of the male breast: Report of a case diagnosed by fine needle aspiration cytology. *Acta Cytologica*, 37(5):721-724, September-October, 1993.
22. Kearns GJ, Pogrel MA, Hanks DK, MacIntosh RB. Simultaneous masses of the palate and body of mandible. *Journal of Oral Maxillofacial Surgery*, 51(7):783-786, July, 1993.
23. Hanks D, Bhargava V. Fine needle aspiration biopsy in head and neck pathology. *Oral and Maxillofacial Surgery Clinics of North America*, 5(2), May, 1993.
24. Hughes-Fulford M, McGrath MS, Hanks D, Erickson S, Pulliam L. Effects of dimethyl prostaglandin A1 on herpes simplex virus and human immunodeficiency virus replication. *Antimicrobial Agents Chemotherapy*, 36(10):2253-2258, October, 1992.
25. Hanks DK, Herndier B, Nolan T, Merolino T, Musicant J, Kaplan L, McGrath M. The specificity of the CD5+, CD20+, CD21- B-Cell phenotype in the diagnosis of high-grade HIV-related lymphomas. I presented the poster for this abstract at the World AIDS Conference in Amsterdam, July, 1992.

RESEARCH INTERESTS:

Currently, I am working closely with Dr Judith Luce at SFGH with the recently endowed Avon Breast Cancer Grant of \$12,000,000 for underserved women. I am hiring a research assistant currently and a Clinical Instructor who will help in obtaining and reviewing old cancer cases to submit tissue blocks to the UC Cancer center in conjunction with Dr Grey and Dr Britt-Marie Ljung. A new diagnostic center is being built on campus at SFGH that will include updated Mammography equipment and a space for performing fine needle aspirations on selected patients. The eventual plan as proposed is to

include gynecologic exams and pap smears at the same site. When this occurs I am interested in converting our paps at SFGH to Thin prep staining with the addition of high risk HPV testing on our population because of the high rate of dysplasia. These new research avenues should be fruitful ones

RESEARCH INTERESTS (cont.):

in the coming years. We are going to eventually tissue bank other tumor types with the Cancer Center once our infrastructure is in place with Avon.

Recently I have been interested in new imaging technology that will allow the reading of cytology and surgical specimens from afar. In the case of cervical cancer; one the most common and easily prevented by screening, this technology could allow worldwide pathologists like myself to be involved in large scale screening without leaving home. This could save tens of thousands of lives annually. Ultimately, I am interested in traveling to underserved countries to instruct in the performance of FNA's aiding in cancer and infectious diagnosis. Trained personnel could send these images electronically to the U.S. for evaluation and recommendations. Worldwide, there is a large demand for specialists, but limited resources. This sort of technology could open up the world to higher quality screening, diagnosis and medical care.

Previously my interests have centered around immunoperoxidase staining with monoclonal antibodies and flow cytometry in cytologic and surgical specimens. I participated in a flow cytometry study on HIV lymphomas with Brian Herndier, M.D., and Mike McGrath, M.D., in a search for a "magic diagnostic panel" for diagnosis of HIV lymphomas. I presented the poster of the abstract at the World AIDS Conference in Amsterdam in 1992. I have also participated in a treatment study of HIV lymphomas with Dr. Lawrence Kaplan using antibodies to CD22 conjugated to the cytotoxic protein ricin. In both of these studies my primary role was in obtaining specimens via fine needle aspiration. I have a personal interest in AIDS pathology because so many of the specimens obtained at SFGH are from people with AIDS. I have a good working relationship with our team of AIDS specialists. The fellows and I have the important job of obtaining specimens for culture and diagnosis of AIDS-related neoplasms and infections. We also observe first hand how devastating AIDS is from our frequent visits to the SFGH AIDS Ward 5A and the outpatient AIDS clinic, Ward 86. I have felt it a responsibility to teach our residents and fellows compassion and tolerance for all of the patients we see on a clinical basis.

Currently, I am participating in a study with Dr. Philip Darney of OB/GYN at SFGH evaluating the "CerMap Cervical Specimen Collector – Prototype" by the CerMed Corporation in Monterey, CA. This device is designed to localize dysplasias to mapped areas of the cervix.