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## EDUCATION

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- Fellowship in Infectious Diseases, University of California, San Diego, 2004
- Residency in Internal Medicine, California Pacific Medical Center, 2001
- Doctor of Medicine, New York Medical College, 1998
- Bachelor of Science in Genetics, University of California, Davis, 1993

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## LICENSES

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- American Board of Internal Medicine, Diplomate in Infectious Disease, 2004
- American Board of Internal Medicine, Diplomate #205254, 2001
- California State Medical License #A71648
- Also licensed in: AZ, CO, GA, ID, MT, NV, TX, UT, WA
- Telemedicine registration FL, Expert Witness Registration FL
- United States Drug Enforcement Administration Licensed

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## AWARDS

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- First Ever Physician of the Month, Eden Medical Center January 2016
- Ortho Biotech Infectious Diseases Scholar, 2003
- California Pacific Medical Center, Resident of the Year, 2000/2001
- California Pacific Medical Center, Resident Teacher of the Year, 1999/2000

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## EXPERIENCE

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### Telehealth Infectious Diseases, Antimicrobial Stewardship and Infection Prevention

- Telemedicine Consultant to rural hospitals (Feb 2017-present)
- Medical Director of Infection Control for a rural hospital (Jan 2016-present)
- Antimicrobial Stewardship consultant for a rural hospital (Feb 2017-present)
- Antimicrobial Stewardship and Infectious Control Consultant for 15 Northern California skilled nursing facilities (January 2017-present)
- **Founded Praxis Infectious Diseases and Capsid Consulting** through which the above services are being provided
- Extensive experience in treatment and management of patients suffering from COVID-19
- Extensive experience in policies, procedures, and protocols relating to COVID-19 in hospitals, skilled nursing facilities, schools, and businesses
- Multiple presentations on COVID-19 for hospitals, skilled nursing facilities, businesses, schools, patients and community members

### President and Founder Praxis Infectious Diseases

#### 2016-Present

- Praxis specializes in infectious disease support to underserved hospitals and clinics
- Provides a broad suite of clinical infectious diseases support, infection prevention support, and antimicrobial stewardship

### President and Founder Capsid Consulting

#### 2015-Present

- Capsid specializes in infection prevention and antimicrobial stewardship support to long-term care facilities, businesses, schools, and universities
- Capsid assists in outbreak management including COVID-19, influenza, RSV, diarrheal diseases, and others

## Vice President and Co-Founder PUL Alliance for Digital Health and Equity - 501(c)(3)

### Charitable Organization

**October 2023-Present**

- Co-founded the Pul Alliance to empower organizations and communities in lower resource settings in the United States and abroad to expand access to healthcare through technology

### Assistant Clinical Professor of Medicine (Volunteer), University of California, San Francisco

**July 2014-Present**

- Teaching Infectious Diseases to Internal Medicine Residents at Highland Hospital, Oakland

### Private Practice Infectious Diseases

**February 2006- January 6, 2017 (President: Nov 2012- Feb 2016), transitioned to be able to focus on Infectious Diseases Telehealth and still provide in-person ID coverage for Diablo Infectious Diseases.**

**Diablo Infectious Disease Consultative Services Medical Group, Inc.**

- Inpatient Infectious Disease consultation services at seven hospitals in the East San Francisco Bay Region
- Ran a group of 8 physicians, 3 nurse practitioners, and 3 office locations
- Outpatient Infectious Disease consultation
- Medical Director of Infection Control at Kindred Hospital S.F. Bay Area (November 2014-May 2016)

### Private Practice Functional Medicine

**May 2016-Present**

- Established Functional Medicine practice and now working with the California Center for Functional Medicine, CCFMed.com

### Tick-Borne Disease Research Program

**November 2022 - Present**

- Member of a scientific review panel to review U.S. Department of Defense grants funding Tick-borne disease research

### Telehealth Infection Control Consultant

**August 2011-July 2014 (Volunteer)**

**Augusta Victoria Hospital, East Jerusalem**

- Provided assistance in the Development of Infection Control Practices
- Provided remote Infectious Disease Consultation

### Consultant

**October 2006-2011**

**World Health Organization**

- Technical Lead for the development of the WHO doctor's training program on HIV for district-level clinicians
  - o Chaired 2nd development meeting October 2006
  - o Provided technical assistance in the development of the District Clinicians Clinical Manual
  - o TB and HIV training, including curriculum development
- General Public Health Consultation

## Consultant Physician

October 2006-July 2007

**Bay Internal Medicine and California Pacific Medical Center, San Francisco**

- Infectious Disease consultation services and Primary Care Internal Medicine with Bay Internal Medicine in San Francisco

## Medical Officer

August 2005-September 2006

**World Health Organization, Geneva**

- Responsible for doctor training in HIV in low-resource settings as part of the Integrated Management of Adult and Adolescent Illness (IMAI) team
  - Developed and coordinated an international group of HIV care experts, in developing a public health approach to doctor training in low-resource settings
- IMAI implementation activities
  - In-country IMAI adaptation work involving partner organizations
  - In-country IMAI doctor training, including mentoring and consulting on difficult cases
  - Expert clinical review of IMAI material, WHO HIV and TB guidelines

## Clinical Advisor

July 2004 to August 2005

**International Center for AIDS Care and Treatment Programs (ICAP), Mailman School of Public Health, Columbia University, South Africa**

- Responsible for the clinical component of ICAP South Africa HIV care and treatment program in the Eastern Cape Province:
  - Managed a team of locally hired doctors, nurses, and other healthcare workers in implementing HIV care and treatment programs at various sites
  - Mentored and trained physicians, pharmacists, professional nurses, and other healthcare workers in the management of HIV and infectious diseases
  - Initiated model care and treatment systems
  - Piloted web-based multi-national case discussion group
  - Collaborated with various international organizations in establishing and disseminating guidelines for the care and treatment of HIV, STIs, and other infectious diseases
  - Consulted on difficult cases throughout the province as a resident HIV and Infectious Diseases specialist

## Fellow (Infectious Disease Training Program at UCSD)

July 2001-July 2004

**Division of Infectious Diseases, University of California, San Diego**

- Coinvestigator, phase I study of L87-0810, an HIV integrase inhibitor
  - Conducted trial at UCSD
  - Submitted protocol to IRB, handled legal filings
  - Communicated with sponsor
  - Recruited, screened, and evaluated patients (recruited more patients than any other site)
  - Presented at CROI 2005
- International HIV training experience
  - Designed and implemented an HIV training program for hospitals of the National Defense Forces of Ethiopia
  - Lectured and mentored physicians and other health workers in Ethiopia on HIV medicine
  - Consulted on difficult cases of HIV, TB, and other infectious diseases in Ethiopia
  - Lectured visiting developing country physicians on many aspects of HIV care
- Infection Control Program
  - Designed a model infection control program applicable in multiple developing country settings
  - Implemented program in the Hospitals of the National Defense Forces of Ethiopia

- o Assessed needs, designed a program, procured items in the country, and implemented a training program with the goal of self-sustainability
- Occupational Exposure Study
  - o Conceived and implemented a scientific assessment of risk factors and rates of occupational exposures in Ethiopian hospitals
  - o Designed survey tool to be applicable in multiple developing country settings
  - o Presented at CROI 2004
- Seroprevalence study
  - o Designed and conducted a study of the prevalence of HIV-co-infections in Ethiopia
  - o Assed rates of Hepatitis B, Hepatitis C, Visceral Leishmania, and Syphilis
- Cryptococcal Meningitis study
  - o As PI, designed protocol, for multicenter, randomized clinical trial of two oral treatment regimens for cryptococcal meningitis
  - o Recruited four clinical (military and civilian) sites, and two laboratory sites in Ethiopia
  - o Forged alliances among many different institutions and investigators
  - o The project currently under review

## Resident in Internal Medicine

**June 1998-July 2001**

**California Pacific Medical Center, San Francisco**

- Lectured on antiretroviral therapy
- Designed protocol for continuous renal replacement therapies
- Researched inpatient management of Diabetes Mellitus

## Board Member

**July 1999-June 2001**

**United States Organization for Medical and Educational Needs, San Francisco**

- Organized fundraising efforts
- Consulted on obtaining medical supplies and medicines and delivering them to needy areas in low-resource settings

## Medical Student

**August 1994-May 1998**

**New York Medical College, Valhalla, New York**

- Volunteer, St. Patrick's Hospital, Offinso, Ashanti Region, Ghana
  - o As a senior medical student, I delivered health care to needy, remote areas
  - o Provided general medical care to in and outpatients
- Community Service Volunteer, Quetzaltenango, Guatemala
  - o Implemented sanitation and community well-being projects
  - o Assisted an Obstetrician in providing general health care to underserved people
- Director, Adolescent Substance Abuse Program
- Treasurer, St. Luke's Medical Society

## Health Careers Educator

**January-June 1994**

**Northern Arizona Area Health Education Center, Flagstaff, AZ**

- Promoted awareness of health-related issues on Navajo and Hopi Indian Reservations
- Recruited youth in underserved areas into the health professions

## Student

**September 1998-June 1993**

**University of California, Davis**

- Major in Genetics
- Focus on International Development
- President Model United Nations
- Research Intern, Department of Microbiology
  - Characterized nuclear binding protein of Anagrapha falcifera nuclear polyhedrosis virus
  - Studied it for use in biological control for cotton crops
- Laboratory Intern (Chemistry and Virology), California Veterinary Diagnostic Laboratory, Davis, CA
  - Researched correlation between bovine serum selenium concentrations and whole blood selenium levels
  - Performed assays to diagnose viral infections in pathologic specimens

## **PUBLICATIONS**

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**Asfour FR**, Waring N, Montgomery L, Link Between Patients with Likely Celiac Disease and Positive Serology for Lyme Disease. International Celiac Disease Symposium, 2019, Paper number P3-08.

Beshay S, **Asfour FR**, Ismail, Khalila. Reducing Fluoroquinolone use in the Inpatient and Emergency Department. CSHP 2018 Seminar, San Diego, 2018.

**Asfour F**, McHarry K, Zolfo M, Mack K. The Need to Implement Ongoing Competency Assessment in HIV Care. 15<sup>th</sup> Ottawa Conference, Kuala Lumpur, March 2012.

**Asfour FR**, and Haubrich R. Non-Nucleoside Reverse Transcriptase Inhibitor Resistance. Chapter 12 in Reverse Transcriptase Inhibitors, 2005, Humana Press.

**Asfour FR**, Zimase N, Macharia D, Hoffman N, and Stender S. Ethical Dilemmas in Implementing an Antiretroviral Therapy Program in Rural Areas of the Eastern Cape Province, South Africa. Abstract MoPe11.1C26, 3<sup>rd</sup> IAS Conference, Rio, July 2005.

Little, S, Durasno, G., Schooley, R, Haas D, Kumar P, Hammer S, McMahon D, Squires K, **Asfour R**, Richman D, Chen J, Saah A, Leavitt R, Hazuda D, and Nguyen B. Antiretroviral Effects of L-000870810, a Novel HIV-1 Integrase Inhibitor, in HIV-1 Infected Patients, Abstract 161, 12<sup>th</sup> CROI, Boston, 2005.

**Asfour FR**, Chun HM, Bezabih, M, Belayneh F, Tetemke T, Abebe Y, Abraham Y, Matsumoto K, Haubrich R, McCutchan JA, Shaffer R, and Kifle A. A survey of Occupational Exposures in Hospitals in Ethiopia, Abstract #V-31, 11th CROI, San Francisco, 2004.

Multiple Educational and informational videos on COVID-19 for various audiences.

Multiple Educational presentations to medical staff and residents on various infectious diseases-related topics.

Multiple Educational presentations to long-term care facility staff and medical providers on various infectious diseases-related topics.