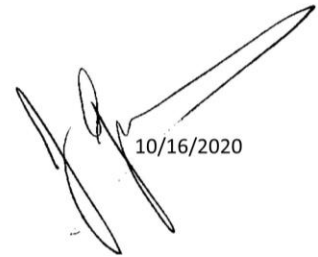


**CURRICULUM VITAE**

Revised: October/2020



10/16/2020

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3. **E-mail Address:** jguarne@emory.edu
4. **Citizenship:** USA
5. **Current Titles and Affiliations:**

**a. Academic appointments:**

**I. Primary appointments:**

Professor  
Department of Pathology and Laboratory Medicine  
Emory University School of Medicine  
September 2012—

Vice Chair for Faculty Affairs  
Department of Pathology and Laboratory Medicine  
Emory University School of Medicine  
September 2020—

**II. Joint and secondary appointments:**

Professor, Department of Medicine (Infectious Diseases)  
Emory University School of Medicine

Professor, Hubert Department of Global Health  
Emory Rollins School of Public Health

**b. Other administrative appointments:**

Associate Director of Emory Medical Laboratories 2017-

Medical Director (holding CLIA licenses) of the Clinical Laboratories at  
Emory University Hospital Midtown 2014-present

Guest Researcher, Centers for Disease Control and Prevention  
April 2007 – 2017

**6. Previous Academic and Professional Appointments:**

1990- 1996	Professor of the pathology section in the “Preparation to the Mexican Residency Competency Exam” (equivalent to USMLE 1 and 2 combined) at the La Salle School of Medicine, Mexico City.
1992- 1996	Professor of the Specialty in Clinical Biochemistry in the School of Chemistry at the National Autonomous University, Mexico City.
1994- 1996	Professor of the clinical pathology course in the Specialty in Clinical Biochemistry in the School of Chemistry at the National Autonomous University, Mexico City.
1999-2007	Adjunct appointment, Emory School of Medicine (Problem Based Learning mentor for M1 and M2)
2007-2012	Associate Professor Department of Pathology and Laboratory Medicine Emory University School of Medicine

**7. Previous Administrative and/or Clinical Appointments:**

1989- 90	Staff Pathologist at the Department of Anatomic Pathology, Instituto Nacional de Cancerologia, México City
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1990- 93	Director of the Clinical Laboratory, Instituto Nacional de Cancerologia, México City
1993- 96	Division Director of Ancillary Diagnostic and Therapeutic Services, Instituto Nacional de Cancerologia, Mexico City.
1996	Staff Pathologist at the Veterans Affairs Medical Center, Atlanta, Georgia
1997- 2007	Medical Officer (staff pathologist) at Infectious Disease Pathology Branch, Centers for Disease Control and Prevention, Atlanta, Georgia
2007-2009	Director of Clinical Laboratories at Children's Healthcare of Atlanta, Department of Pathology and Laboratory Medicine, Emory University School of Medicine, Atlanta, GA
2007- present	Faculty at Emory University, School of Medicine, Department of Pathology and Laboratory Medicine

#### 8. Licensures/Boards:

February 1995	Georgia Medical License
December 1984	FLEX (Federation Licensing Examination)
September 1982	VISA Qualifying Examination
January 1981	ECFMG (Educational Commission for Foreign Medical Graduates)

#### 9. Specialty Boards:

February 1988	Mexican Board of Anatomic Pathology
November 1987	American Board of Pathology (anatomic and clinical pathology)

#### 10. Education:

1971-77	Baccalaureate, Colegio Oxford, México City
1977-83	Medical School, La Salle School of Medicine, México City

**11. Postgraduate Training:**

- 1983-87                      Residency training in Anatomic and Clinical Pathology at Emory University, Atlanta Ga.
- 1987-89                      Fellow in Surgical Pathology, Emory University, Atlanta Ga.
- Leadership training:
- 2008                          Mid-career women faculty professional development seminar sponsored by the Association of American Medical Colleges in Scottsdale, AZ Dec 6-9, 2008
- 2009                          Pediatric Executive Program sponsored by The Emory Children's Center, Atlanta, GA January- May 2009
- 2010                          Quality Academy, extended program. Sponsored by Emory Healthcare, Atlanta GA, February –May 2010.

**12. Committee Memberships:****a. National and International:**

United States and Canada Academy of Pathology (USCAP), Abstract reviewer, 2002-05

Binford-Dammin Society of Infectious Disease Pathology, education committee, 2004-2007

Latin American Pathologists Foundation, President, 2006-2007

Binford-Dammin Society of Infectious Disease Pathology, Secretary/Treasurer, 2008- 2014

Binford-Dammin Society of Infectious Disease Pathology, Committee to select the Jerry Smith Award (best resident presentation of an Infectious Disease Pathology poster or proffered session at USCAP), 2008 and 2011

Science Advisory Committee for the Department of Defense on the Collaborative Research Laboratory in the Republic of Georgia, 2011- 2012

Academy of Clinical Laboratory Physicians and Scientists, member of the Program Committee for the 2013 Annual Meeting.

Infectious Diseases Society of America, Education Committee, 2012-present

United States and Canada Academy of Pathology (USCAP), Abstract reviewer, 2013-16

Binford-Dammin Society of Infectious Disease Pathology, elected President elect-elect, 2014

American Society for Clinical Pathology, abstract reviewer, 2017-

Binford-Dammin Society of Infectious Disease Pathology, President, 2017-2018

American Clinical and Climatological Association, member of the Audit Committee, 2018-

American Society for Clinical Pathology, member of the education committee 2018-

**b. Institutional:**

Diversity Committee at the National Center for Infectious Diseases, CDC, 1998-2006

Committee on Infectious Causes of Chronic Diseases, CDC, 1998-2006

Transfusion Committee, CHOA, 2007-2009

Emory University Parent Council, 2007-2010

Advisory Committee for the Emory Healthcare Medical Technologist Program, 2007- present

CoPath (Laboratory Information System for Pathology at Emory Healthcare) Steering Committee, 2009, 2011

Laboratory Operations (LabOps) Committee, 2010-present

Millennium (Laboratory Information System for the Clinical Laboratory at Emory Healthcare) Steering Committee, 2011-2013

Emory School of Medicine Committee on Community and Diversity (faculty retention and development section), 2009-2011

Emory School of Medicine Faculty Committee for Appointment and Promotions (FCAP) 2010-2013

Department of Pathology and Laboratory Medicine Faculty Committee for Appointment and Promotions (FCAP) 2013-2019

Operating Room Committee at Emory University Hospital Midtown 2014-

Medical Practice Committee at Emory University Hospital Midtown 2014-

Point of Care testing Committee for the Emergency Departments for the Emory University Hospitals 2014-

Infection Control Committee at Emory University Hospital Midtown 2014-

Faculty Advisory Committee to the Dean of the School of Medicine, Emory University 2014—2017

Emory University Curriculum Committee, 2015-

Department of Pathology Clinical Competency Committee, 2015-

Medical Practice Committee at Emory University Hospital 2017-

Program Evaluation Committee (PEC) for the Department of Pathology and Laboratory Medicine, 2017-

Co-chair of the Clinical Pathology component of the PEC, 2018-

Chair, Department of Pathology and Laboratory Medicine Faculty Committee for Appointment and Promotions (FCAP) 2019-

Emory School of Medicine Recognitions Committee, 2019-

Member of the search committee for the Emory ENT Chair, 2019

### **13. Consultantships:**

Medical Education Partnership Initiative and African Society of Laboratory Medicine, Assessment of Pathology and Laboratory Services at the Black Lion Hospital (Addis Ababa University) and curriculum development of a Clinical Pathology Residency Program, 2011

Instituto Nacional de Cancerologia, Mexico City, Consultant for the Clinical Laboratory, 2011

American Society of Clinical Pathology (ASCP), Assessment of Pathology and Laboratory Services in Bolivia 2012

External Advisor to the Medical Education Partnership Initiative at the Hospital Central de Maputo and the Universidade Eduardo Mondlane, Maputo, Mozambique, 2018

### **14. Editorial Boards:**

**Associate editor for American Journal of Clinical Pathology, 2014-2019.**

**Section editor for Education and Training, and Review articles for American Journal of Clinical Pathology, 2017-2019**

**Associate editor for Global Health for the American Journal of Clinical Pathology, 2019-**

**Associate editor for virology for Archives of Pathology and Laboratory Medicine, 2016- present**

**Guest editor for HIV number in Seminars in Diagnostic Pathology, 2018**

**Guest editor for Emerging Infections number in Seminars in Diagnostic Pathology, 2019**

**Section editor for Photo Quiz for Clinical Infectious Diseases 2018-present**

**Editorial boards**

Histopathology, 2016- present  
American Journal of Clinical Pathology, 2013-present  
Journal of Clinical Virology, 2009- present  
Case Reports in Medicine, 2009-2011  
AIDS Research and Human Retroviruses, 2011- present  
Archives of Medical Research, 2011- present  
Human Pathology, 2011- present  
Pediatric and Developmental pathology, 2012- present

**15. Manuscript reviewer**

Journal of the American Medical Association (JAMA) 2020- present  
BMC Medical Education 2019- present  
Infection and Drug Resistance 2018 -present  
Molecular Histology and Medical Physiology 2017-present  
Oxford Medical Case Reports 2016-present  
Journal of Clinical Laboratory Analysis 2016-present  
European Journal of Medical Research 2015-present  
Expert Review of Anti-infective Therapy 2015-present  
Advances in Medical Education and Practice, 2014- present  
British Microbiological Research Journal, 2014--present  
Journal of Virological Methods, 2014- present  
Diseases (MDPI open journal), 2014- present  
Placenta, 2014- present  
Mycoses, 2014- present  
Journal of Microbiology and Antimicrobials, 2014- present  
Virology and Mycology, 2013-present  
Journal of Eukaryotic Microbiology, 2013- present  
Clinical Microbiology and Infection, 2013- present  
Journal of Clinical Microbiology, 2013-present  
American Journal of Clinical Pathology, 2012-present  
BMC Infectious Diseases, 2012-present  
European Infectious Diseases, 2012-present  
Archives of Pathology and Laboratory Medicine, 2011- present  
Journal of Infection, 2011- present  
Medical Mycology, 2011- present



European Journal of Echocardiography, 2010- present  
Open Access Bioinformatics, 2010- present  
Diagnostic Microbiology and Infectious Diseases, 2010- present  
Modern Pathology, 2010- present  
Scholarly Research Exchange, 2009- present  
Cancer, 2009- present  
Journal of Molecular Diagnostics, 2009- present  
International Journal of Laboratory Hematology, 2009- present  
Pediatric Pulmonology, 2009- present  
Pediatric and Developmental Pathology, 2008- present  
Human Pathology, 2008- present  
Infection, 2008- present  
Indian Journal of Pathology and Microbiology, 2008- present  
Journal of Clinical Virology, 2008- present  
Digestive Diseases and Science, 2008- present  
AIDS Research and Human Retroviruses, 2006- present  
Emerging Infectious Diseases, 2006- present

#### **16. Honors and Awards:**

1982: National Autonomous University, Mexico City  
Honorable mention in professional exam

1983: La Salle University, Mexico City  
Top 5% of class in medical school (class of 120)

1989: Fundacion Mexicana para la Salud, Mexico City  
Repatriation award, competition to recruit foreign trainees

1990: National Autonomous University, Mexico City  
Aida Weiss Award in cancer research

1990-1996: Sistema Nacional de Investigadores, Mexico City  
Named a national researcher, a competitive system in Mexico

1999: Health and Human Services (HHS) Secretary Award, USA  
Sudden deaths in children during outbreaks of Hand, Foot, and Mouth  
Disease in Malaysia and Taiwan

2000: Health and Human Services (HHS) Secretary Award, USA

Discovery of Nipah virus in Malaysia and Singapore

2001: Health and Human Services (HHS) Secretary Award, USA  
Outbreak of West Nile virus in the Northeast United States

2001: Health and Human Services (HHS) Secretary Award, USA  
Outbreak of Ebola hemorrhagic fever in Uganda between October 2000  
and February 2001

2002: Health and Human Services (HHS) Secretary Award, USA  
Public health emergency response to the World Trade Center and  
Pentagon terrorist attacks and the anthrax investigation

2002: James Nakano citation Award by the Centers for Disease Control  
and Prevention (CDC), USA. Publication: Jernigan JA, et al. Emerg Infect  
Dis 7: 933-44, 2001

2003: Charles C Shepard Science Award in Laboratory Methods by the  
CDC, USA. Publication: Ksiazek TG, et al. N Eng J Med 348:1953-66, 2003

2006: James Nakano citation Award by the Centers for Disease Control  
and Prevention (CDC), USA. Publication: Srinivasan A, et al. N Eng J Med  
352:1103-11, 2005

2006: James Nakano citation Award by the Centers for Disease Control  
and Prevention (CDC), USA. Publication: Fischer M, et al. N Eng J  
Med 353:2352-60, 2005

2008: Honor Award by the National Center for Preparedness, Detection  
and Control of Infectious Diseases, HHS, USA  
Providing superior service and protecting the health of the public by a  
national, multi-agency investigation and response to pregnancy associated  
fatal toxic shock syndrome.

2010: Emory Milipub Club - Having a publication with more than 1000  
citations: N Engl J Med 2003; 348: 1953-1966.

2014: Emory Women's First and Outstanding women—Emory chooses  
two women faculty every year to highlight their accomplishments.

2014: Elected to the American Clinical and Climatological Association.

2018-2019: Golden Apple Award for Resident Education in Clinical Pathology.

### **17. Society Memberships:**

American Society of Clinical Pathology (since 1985)

United States and Canadian Academy of Pathology (since 1986)

Consejo Mexicano de Medicos Anatomopatologos (1988)

Binford-Dammin Society of Infectious Disease Pathology, (since 1996)  
(Secretary/ Treasurer 2008-present; President elect 2016)

Latin American Pathologists Foundation, President (2006-2007)

Mexican Association of Immunohistochemistry and Molecular Pathology  
(since 2007, founding member)

Infectious Diseases Society of America (2010, elected fellow in 2016)

Southern Society for Clinical Investigation (elected in 2011)

Academy of Clinical Laboratory Physicians and Scientists (elected 2013)

American Clinical and Climatological Association (elected 2014)

### **18. Organization of National or International Conferences:**

IX Mexican National Congress of the Anatomic Pathology Federation,  
Coordinator of Infectious Disease Case Seminar, San Luis Potosi, Mexico,  
November 2010.

United States and Canada Academy of Pathology (USCAP), Moderator of  
Infectious Disease Pathology Evening Specialty Session, 2010- 2012

Latin American Society of Pediatric Pathologists (SLAPPE), Coordinator  
of the Infectious Disease Pathology Symposium for the XV Meeting of the  
SLAPPE held in Maceió, Brazil 2011.

Convener of 1 session for the 2012 African Society for Laboratory  
Medicine, Cape Town, South Africa, December 2012: Strengthening  
Clinical Laboratory Pathology in Africa.

Convener of 2 sessions for the 2014 African Society for Laboratory

Medicine, Cape Town, South Africa, December 2014:

1. Strengthening the Practice of Laboratory Medicine and Pathology in Africa, and
2. The Role of Anatomic Pathology in Improving Health Care in Sub-Saharan Africa.

Convener of symposium for the 2016 African Society for Laboratory Medicine, Cape Town, South Africa, December 2016:

“Strengthening the Practice of Laboratory Medicine and Pathology in Africa.”

United States and Canada Academy of Pathology (USCAP), Moderator of Potpourri Session, Vancouver, BC, March 2018.

### **19. Research focus:**

Use of immunohistochemistry and molecular methods to study the pathology and pathogenesis of infectious agents. Study of the acute and chronic pathologic effects of infectious agents, in particular *Helicobacter pylori*. Implementation of diagnostic methods using paraffin embedded tissue for the diagnosis of Class A infectious diseases agents.

Quality improvement of laboratory processes.

### **20. Patents:**

#### **Issued:**

Publication No. US 7776521 B1 published on 17 Aug 2010

Application No. US 11/748359 filed on 14 May 2007

Patent references US 2005/0181357 A1, High-throughput diagnostic assay for the human virus causing severe acute respiratory syndrome (SARS).

web site: <http://ip.com/patent/US7776521> accessed September 1st, 2010

### **21. Grant Support:**

**Current Support:**

**Previous Support:**

1U19GH001583-01 CDC 02/02/2015 – 02/01/2020  
Emory Partnership for Global Health Security Training (Emory PGHST). This project will help build capacity to respond to public health emergencies of international concern such as Ebola in Western Africa.  
Role: Investigator (1.2 calendar-months)

Emory Educational grant to expand computerized interactive learning modules to encompass other areas of the laboratory 2012-2013

Emory Educational grant to computerize clinical microbiology vignettes 2010-2011

NIH RO1 DK053708-06A1 grant: 2004-08. Host factors in *Helicobacter pylori* infections in children. Principal investigator: Benjamin Gold. Multicentric study that includes: Egleston Children Hospital, Cleveland Clinic, Toronto's Hospital for Sick Children, and Centers for Disease Control and Prevention. Role: co-investigator.

CDC/NCID (Infectious Causes of Chronic Diseases Group). 2001 – 2003 Gastric Atrophy and Intestinal Metaplasia caused by *Helicobacter pylori*: Evaluation of Preneoplastic Markers PI. J. Guarner

NIH RO1 HIC470-94C grant: 1997-2001 Study of *Helicobacter pylori* in children. Principal investigator: Benjamin Gold. Multicentric study that includes: Egleston Children Hospital, Cleveland Clinic, Toronto's Hospital for Sick Children, and Centers for Disease Control and Prevention. Role: co-investigator.

NIH RO1 CA67488-01 grant: 1995- 2000 Intervention study for the eradication of *Helicobacter pylori* to decrease the incidence of preneoplastic gastric lesions in Chiapas. Principal investigator: Julie Parsonnet. Multicentric study between the Centro Interdisciplinario de Estudios del Sureste (CIES), Instituto Nacional de Cancerologia (both in Mexico) and Stanford University in the United States. Role: co-investigator.

## 22. Clinical Service Contributions:

As Director of the Clinical Laboratory of the National Cancer Institute in Mexico City:

Installed the first laboratory computer network in the National Cancer Institute.

Wrote the first laboratory policy and procedure manuals for the laboratory.

Installed a flow cytometry laboratory.

Installed the cytogenetics laboratory.

Validated and implemented serologic tumor markers such as Ca 125, Ca 15.3, and cyfra 21.1.

Together with the National Autonomous University in Mexico City, developed a program of clinical laboratory research so that chemistry students could come to the laboratory at the National Cancer Institute to perform their thesis.

Remodeled the laboratory.

At the Infectious Diseases Pathology Activity in the Centers for Disease Control and Prevention, developed and implemented immunohistochemical assays for the following infectious agents:

*Trypanosoma cruzi*  
*Neisseria meningitidis*  
*Streptococcus pneumoniae*  
*Yersinia pestis*  
Group A Streptococcus  
*Clostridium sp.*  
*Staphylococcus aureus*  
Free living ameba  
*Haemophilus influenzae*

As Director of the Clinical Laboratories in Children's Healthcare of Atlanta:

Moved laboratory at Egleston Hospital to new location  
Installed flow cytometry  
Installed mass spectrometry  
Developed molecular testing for *Bordetella pertussis* and enteroviruses

At Emory University Hospital:

Delineating workflows for all the processes in the entire Anatomic and Clinical Pathology Laboratories

Reorganizing the immunology rotation for pathology residents

Served as quality support for anatomic pathology from 2010-2011 (performing quality improvement projects, writing procedures, performing root cause analysis when problems arise)

Interpretation of protein electrophoresis and other related immunologic studies (performed 7 days out of each month until 2014), fluorescent in-situ hybridization studies (FISH) for hematologic and other neoplasias (perform 1-2 weeks a month), and interpretation of coagulation study panels (perform one week a month)

Creation of templates to standardize pathologists' sign out of coagulation using guidelines

Design of a peer-review system to monitor and standardize pathologists' interpretations of immunology studies.

As Director of the Clinical Laboratory at Emory University Hospital Midtown, Atlanta:

Process improvement of Gram stain competencies for Core Laboratory Technologists,

Implementation of Point of Care troponin in the Emergency Room,

Implementation at huddle "5 minute education topics for techs",

Implementation of IQCP

Validation of line, chemistry and immunochemistry analyzers

Move of core clinical laboratory to new location

Validation of Urinalysis instruments

Validation of GeneXpert for influenza virus testing

Validation of hematology analyzer (Sysmex XN)

Validation of GeneXpert for SARS-CoV-2 testing

Validation of Coagulation instruments (IL tops)

Validation of ePlex (multiplex for respiratory specimens)

**23. Formal Teaching:**

**a. Medical Student Teaching:**

Lecturer for the Pathology section of the “Mexican Residency Competency Exam” (equivalent to USMLE 1 and 2 combined) at the La Salle School of Medicine, Mexico City (30 hours a year), 1990-1996.

Mentor for Problem Based Learning (PBL) at Emory University School of Medicine for M1 (23 hours a year), 1999-2007.

Mentor for Problem Based Learning (PBL) at Emory University School of Medicine for M2 (25 hours a year), 2007-2008.

Leader for the Medical Student Clinical Laboratory Experience (MSCLE) during CAPSTONE: For one day and a half the entire medical student class (126 students) tour the laboratories of the Emory System and solve cases with an emphasis in Clinical Pathology, 2011- present.

Reorganization of medical student elective pathology rotation. Worked with residents and the Residency program Director and Co-Director to have a rotation where the students have more responsibility (carry a surgical pathology case from grossing to sign out) and can showcase better what is done in clinical pathology, 2011.

Director of the Pathology Elective for medical students, 2011- 2016.

**b. Graduate Program:****Residency program:**

Presentation of interesting infectious disease cases seen at the Centers for Disease Control and Prevention to the residents at the Wednesday morning weekly conference at the Veterans Administration Hospital (30 hours a year), 1997- 2007.

Created a one month pediatric clinical chemistry rotation in the core laboratory at Children’s Healthcare of Atlanta for pathology residents and clinical chemistry fellows, 2007- 2009.

Created a 3 week rotation through the clinical laboratory for pediatric residents, 2008- 2009



Course Director for the practical portion of the immunology section for Pathology Residents and Clinical Chemistry Fellows, Emory University 2009 to present.

Created 50 microbiology vignettes to teach clinical microbiology and infectious diseases pathology to pathology and medicine residents, medical students, and infectious diseases fellows during microbiology rounds, 2009- present.

Organize a career seminar series for pathology residents. This series includes 4 formal lectures on interviewing for jobs, contracts, financial considerations, and mentoring. In addition, a 4 hour panel with pathologists from the community and academia present the path they followed to get to where they are now, what they suggest residents should do to prepare themselves for when they finish their residency training, and what they enjoy the most and least about their jobs. 2009- present.

Organize a monthly 1 hour lecture on different laboratory topics for internal medicine residents and a monthly tour of the Emory Hospital Laboratory, 2009- 2013.

Pathologist responsible for the Infectious Diseases Division CPCs (4 to 6 per year).

Microbiology vignettes on-line: created multiple choice questions for each of the vignettes that have been created for microbiology rounds, placed them in a web-based system so that these can be accessed remotely by residents, fellows and students in the school of medicine and school of public health. Received two educational grants awarded by Emory University for this project, 2010-2011 and 2012-2013.

Teaching coagulation to residents with 2 lectures (one hour each) that occur every three months during their blood bank training and one lecture that occurs every year, 2011-present. For this last lecture we play coagulation bingo. I designed 4 of the 5 boards used for this activity.

Emory Pathology elearning Portal: created a web page where conferences given by residents are converted into learning modules by adding multiple choice questions that have immediate feedback. Received an

educational grant award by Emory University for this project, 2012-2013.

Course Director for the rotation on Laboratory Administration for Pathology Residents and Clinical Chemistry Fellows, Emory University 2014 to present.

Created the Special Coagulation/ HLA and Immunology rotation for residents, 2020 to present

### **Other post-graduate training for pathologists and clinicians**

Short courses on Laboratory Medicine for Clinicians. Presented in 2014, 2015 and 2016: Directed and organized 4 day courses in Addis Ababa University, Ethiopia, as part of MEPI (Medical Education Partnership Initiative—NHI funded) on Laboratory Medicine for Clinicians. For this we created 12 problem-based cases that highlighted 4 Clinical Laboratory areas including Chemistry, Hematology, Blood Bank and Microbiology. In addition, 4 interactive cases that highlight the Laboratory Foundations have been posted in the EPeP website. Also included in the course were lectures and tours of the laboratories at Black Lion Hospital in Addis Ababa.

NCI PAR15: Co-Investigator. Comparison of case-based learning to power point presentations to teach African pathologists synoptic reporting of cancers. Nairobi, Kenya January and May 2016.

Course Director: “Leadership Principles” in Addis Ababa University as part of the MEPI-Jr, January 30-February 1, 2018, repeat in 2019.

### **c. Other categories:**

#### **i) Medical technologists:**

Organized a series for Continual Education of Medical Technologists at Children’s Healthcare of Atlanta by Clinical Pathology Faculty. Lectured 2 hours per year, 2007 –2009.

Lectures for the Medical Technologist Certification Program at Emory University: 14 hours on general principles of anemia, megaloblastic

anemia, aplastic anemia, anemia associated to inflammation, platelet disorders, serology for viral infections, and clinical pathways 2008-present.

**ii) Physician Assistant Program:**

Seven 1 hour lectures on basic principles in immunology, 2011 and 2012.

**iii) Masters in Public Health:**

One hour lecture on diagnostic methods for infectious diseases in GH511 (Global Infectious Diseases in the School of Public Health), 2011- present.

**24. Supervisory Teaching:**

**a. Post-doctoral fellows directly supervised:**

Julie Gutman, MD, Pediatric Infectious Disease Fellow in a 1 year project reviewing ten years of pediatric malaria cases seen at CHOA, 2007-08. Current position: instructor in the Pediatric Infectious Disease Department of Emory University School of Medicine. Current position: Assistant Professor in the Pediatric Infectious Disease Department of Emory University School of Medicine.

Gillian Genrich, BA, Fellow in Emerging Infectious Diseases Program at the Centers for Disease Control and Prevention, Atlanta GA, 2004-2005. One year project developing an immunohistochemical assay for the detection of *Plasmodium falciparum* in tissue sections. Current position: Pathology resident at University of San Francisco.

Fernando Torres-Velez, DVM, Fellow in Emerging Infectious Diseases Program at the Centers for Disease Control and Prevention, Atlanta GA, 2000- 2003. Two year project developing an immunohistochemical assay for *Babesia* sp and study of human tissues and animal models for the detection of an extraerythrocytic phase. Current position: Director of Laboratory Services at Plum Island, New York.

Annette Schwartz, DVM, Fellow in Emerging Infectious Diseases Program at the Centers for Disease Control and Prevention, Atlanta GA, 1999-2000. One year project developing an immunohistochemical assay for *Chlamydia*

*pneumoniae* to establish an animal model for atherosclerosis. After finishing the CDC fellowship she trained in veterinary pathology at the New England Regional Primate Research Center, Harvard Medical School, Southboro, Massachusetts.

Walter Abitia, BA, thesis chair for degree of Specialist in Clinical Biochemistry by the Universidad Nacional Autonoma de Mexico, Mexico City, 1994-1996. Thesis: The use of lactic deshydrogenase in oncologic patients. Currently working at the Instituto Nacional de Cancerologia, Mexico City.

Antonieta Molina, BA, thesis chair for degree of Specialist in Clinical Biochemistry by the Universidad Nacional Autonoma de Mexico, Mexico City, 1994-1996. Thesis: Use of tumor marked CYFRA 21-1 in carcinoma of the uterine cervix.

Jaime Pablo Linares-Acha, MD, thesis advisor for masters in neuroscience by the Universidad Nacional Autonoma de Mexico, Mexico City, 1995. Thesis: Flowcytometry of astrocytomas.

Elsa C Ramirez, BA, thesis chair for degree of Specialist in Clinical Biochemistry by the Universidad Nacional Autonoma de Mexico, Mexico City, 1992-1994. Thesis: Use and abuse of serum protein electrophoresis. Working at the Instituto Nacional de Cancerologia, Mexico City.

Maria Guadalupe Alvarez, MD, thesis chair for degree in Specialist in Clinical Biochemistry by the Universidad Nacional Autonoma de Mexico, Mexico City, 1992-1994. Thesis: Productivity in a clinical laboratory before and after a computarized information system was installed. Currently working at the Instituto Mexicano del Seguro Social, Mexico City.

**b. Other:**

Thesis advisor to obtain chemistry/biology major:

Adriana Romero-Serrano, biology major from the Universidad Nacional Autonoma de Mexico, Mexico City, 1997. Thesis: Study of bacterial load in-vitro using the Bactec 9120 system and correlation with blood cultures in patients at the Instituto Nacional de Cancerologia, Mexico.

Maria Sotera Chavez-Jacal, biology major from the Universidad Nacional Autonoma de Mexico, Mexico City, 1997. Thesis: Quantification of the effect of IL-2, IL-3, IL-4, and GM-CSF in cytogenetic studies of patients with hematologic malignancies.

Leticia Magalli Segura-Figueroa, chemistry major from the Universidad Veracruzana, Xalapa, Veracruz, Mexico, 1997. Thesis: Yeasts as a cause of diarrhea in oncologic patients.

Mariblanca Solis-Elias, chemistry major from the Universidad Veracruzana, Xalapa, Veracruz, Mexico, 1997. Thesis: Correlation of lactic dehydrogenase with CA 125 in patients with ovarian tumors.

Isela Santiago-Roque, chemistry major from the Universidad Veracruzana, Xalapa, Veracruz, Mexico, 1996. Thesis: Use of beta 2 microglobulin as a marker for malignant hematologic malignancies at the Instituto Nacional de Cancerologia, Mexico.

Claudia Veronica Aguilera-Mendez, chemistry major from the Universidad Autonoma de Yucatan, Merida, Mexico, 1996. Thesis: Use of tumor marker Ca 19-9 in patients with gastrointestinal tumors.

Maria Rocio Valdes-Gomez, chemistry major from the Universidad Motolinia, Mexico City, 1996. Thesis: Normal values for the Autoanalyzer Spectrum (Abbott).

Trinidad Matilde-Nava, chemistry major from the Universidad Autonoma de Puebla, Mexico, 1995. Thesis: Frequency of intestinal parasites, especially of *Isospora* sp., in adult cancer patients in México.

Raul Fernando Villaseñor-Flores, chemistry major from the Universidad Autonoma de Puebla, Mexico, 1995. Thesis: Frequency of intestinal parasites, especially of *Isospora* sp., in adult cancer patients in México.

Patricia Montoya, chemistry major from the Universidad Motolinia, Mexico City, 1995. Thesis: Comparison of two blood culture methods: trypticasein soy broth and lysis centrifugation.

Luz-Maria García-Rodríguez, chemistry major from the Universidad Motolinia, Mexico City, 1995. Thesis: Cytogenetic analysis of pleural fluid and aspiration biopsies of patients with lung adenocarcinoma.

Lorena Quezada-Camarena, chemistry major from the Universidad Motolinia, Mexico City, 1994. Thesis: Bacteriologic study of oral flora in patients with leukemia or lymphoma before and after treatment.

Enrique Alejandro Velasco, chemistry major from the Universidad Nacional Autónoma de México, Mexico City, 1993. Thesis: Alfa fetoproteína and gonadotropina coriónica en pacientes con tumores de células germinales testiculares.

## **25. Lectureships, Seminar Invitations, and Visiting Professorships (last 5 years):**

Visiting Professor at the Hospital Central in San Luis Potosí, México on May 29, 2015. Presented lecture entitled: "Role of pathology in diagnosis of infectious diseases." Reviewed cases with residents.

Invited lecturer, Grand Rounds at Aga Khan University Hospital, Nairobi, Kenya. Topic: "Laboratory Medicine Education". May 24, 2016.

Invited lecturer, GA Tech Health Services, Atlanta GA. Topic: "Infections without borders", April 2018.

Team lead for Quality Seminar for Pathologists and Cytologists in Cali, Colombia, May 3-4, 2018. Sponsored by the International Union against Cancer of the World Health Organization (WHO). Topics presented included: External Evaluation of Quality, Audits, Accreditation Agencies, Documents, Quality improvement techniques, Customer Service, Organization and others.

Invited lecturer to the Academy of Medicine in Buenos Aires, Argentina, to present the lecture: "Incorporating Pathology into the Infectious Diseases Practice". June 26, 2018.

Team lead for Quality Seminar for Pathologists and Cytologists in Asunción, Paraguay, October 24-27, 2018. Sponsored by the International Union against Cancer of the World Health Organization (WHO). Topics presented included: External Evaluation of Quality, Audits, Accreditation

Agencies, Documents, Quality improvement techniques, Customer Service, Organization and others.

Team lead for Quality Seminar for Pathologists and Cytologists in Yangon, Myanmar November 12-16, 2018. Sponsored by the International Union against Cancer of the World Health Organization (WHO). Topics presented included: Equipment, External Evaluation of Quality, Audits, Accreditation Agencies, Documents, Quality improvement techniques, Customer Service, Organization and others.

Team lead for the anatomic pathology workshop in San Salvador, El Salvador, May 13-16, 2019. Sponsored by the American Society for Clinical Pathology. Presented the following lectures: Sample management, Quantitative internal quality control management, Qualitative internal quality control management, External quality control, Audits, internal and external, Accreditation.

Visiting Professor to the Department of Pathology, University of Miami, included grand round lecture: "Always Learning", and a resident teaching session: "Team approach to fungal infections". Miami, January 27-28, 2020.

Visiting Professor to the Department of Pathology, University of Pennsylvania, included lecture presentation: "Always Learning", Philadelphia, February 27-28, 2020.

Invited lecturer to the Colegio Catolico Boliviano, Santa Cruz, Bolivia, to present the lecture: "Infeccion por SARS-CoV-2 (COVID-19): Diagnostico y tratamiento", May 12, 2020.

Invited lecturer to Research Grand Rounds at the Hospital Infantil Federico Gomez, Mexico City, Mexico, to present: "Uso de plasma convaleciente en pacientes con COVID-19", June 3<sup>rd</sup>, 2020.

## **26. Invitations to National or International Conferences (last 5 years):**

Lecturer at the Short Course on Laboratory Medicine for Clinicians, Addis Ababa University, January 2015. Title of lectures: "Basics of hematology

instrumentation", "Urinalysis and other examination of other fluids", and "Introduction to Microbiology".

Presentation entitled "Incorporating pathology in the practice of Infectious Diseases: Myths and reality." at the Infectious Disease Association of California, Costa Mesa, CA. May 2, 2015.

Plenary session entitled: "Role of Pathology in the Diagnosis of Infectious Diseases" in the XL Mexican National Congress of Infectious Diseases and Microbiology, May 28, 2015.

Session entitled: "Systemic mycosis that present in the surface" at the Microbiology symposium in the XL Mexican National Congress of Infectious Diseases and Microbiology, May 28, 2015.

Presentation entitled: "Pathologists in cases of bioterrorism." At the Infectious Disease Pathology Course of the XXX Congress of the Society of Latin American Pathologists, Santa Cruz, Bolivia, October 1<sup>st</sup>, 2015.

Presentation entitled: "Mycosis and immune deficiencies." At the Infectious Disease Pathology Course of the XXX Congress of the Society of Latin American Pathologists, Santa Cruz, Bolivia October 1<sup>st</sup>, 2015.

Presentation entitled: "Case presentation: systemic mycosis." At the Infectious Disease Pathology Course of the XXX Congress of the Society of Latin American Pathologists, Santa Cruz, Bolivia October 1<sup>st</sup>, 2015.

Meet the Professor: "Infectious Disease Pathology." At IDWeek 2015, San Diego, CA, October 10, 2015.

Course entitled: "Team approach to diagnosis of fungal infections", at the 2015 American Society for Clinical Pathologists (ASCP) Annual Meeting, Long Beach, CA, October, 29, 2015.

Long and short courses entitled: "Team approach to diagnosis of fungal infections" at the XXVIII World Congress of the World Association of Societies of Pathology and Laboratory Medicine (WASPaLM), Cancun, Mexico, November 18-21, 2015.



Lecture entitled: "Emergent infectious diseases. The pathologist's role" at the XXVIII World Congress of the World Association of Societies of Pathology and Laboratory Medicine (WASPaLM), Cancun, Mexico, November 18-21, 2015.

Plenary session entitled: "Transplant transmitted infections" at the XXVIII World Congress of the World Association of Societies of Pathology and Laboratory Medicine (WASPaLM), Cancun, Mexico, November 18-21, 2015.

Lecturer at the Short Course on Laboratory Medicine for Clinicians, Addis Ababa University, January 2016. Title of lectures: "Basics of hematology instrumentation" and "Urinalysis and other examination of other fluids".

Invited speaker to the International Congress of Guadalajara's Civil Hospitals, presentation entitled: "Role of pathologists in diagnosis of infectious diseases" February 2016

Invited speaker to the Binford Dammin Society of Infectious Disease Pathologists (companion USCAP society): "Fungal infections of the lung: histopathology and molecular diagnosis" Seattle, WA, March, 2016. (Mentored Andrew Bryan, MD, PhD, a PGY3 in clinical pathology from University of Washington as we did the presentation together).

Session entitled: "Infectious Diseases of the Traveler" at the Microbiology symposium in the XLI Mexican National Congress of Infectious Diseases and Microbiology, May 27, 2016.

Course entitled: "Team approach to diagnosis of fungal infections", at the 2016 American Society for Clinical Pathologists (ASCP) Annual Meeting, Las Vegas, NV, September 14, 2016.

Course entitled: "Infections without borders", at the 2016 American Society for Clinical Pathologists (ASCP) Annual Meeting, Las Vegas, NV, September 14, 2016.

Course entitled: "Differential diagnosis of skin ulcers and eschars" in the symposium entitled Neoplasias in Africa, at the 2016 American Society for

Clinical Pathologists (ASCP) Annual Meeting, Las Vegas, NV, September 15, 2016.

Infectious Disease session at the XXXII Meeting of the Central American and Caribbean Pathologists, 3 presentations entitled:

1. "Mycosis in the Central Nervous System";
2. "Infectious Disease Pathology seen in Africa; and
3. "Slide seminar."

Havana, Cuba, November 2016.

Presentations at the African Society for Laboratory Medicine 2016, Cape Town, South Africa, December, 2016, entitled:

1. "Strengthening communication between diagnostic laboratories and the clinical team" in the symposium "The need for clinical laboratory support in the care of patients with non-communicable diseases"; and
2. "The role of anatomic pathology in improving healthcare in Sub Saharan Africa" oral presentation.

32<sup>nd</sup> Annual Congress of Mexican Pathologists, Merida, Mexico. May 2017 presentations entitled "Myths and realities of infectious disease pathology" and "Case of an immunocompetent woman with pigmented hyphae in the central nervous system".

Invited speaker to the XLII National (Mexican) Infectious Diseases and Microbiology Congress: "Pathology of Zika virus." Puebla, Mexico, May, 2017.

Invited speaker to the XLII National (Mexican) Infectious Diseases and Microbiology Congress for the joint Emory AMIMC: "Pathology of Ebola virus, tuberculosis and influenza." Puebla, Mexico, May, 2017.

Session coordinator and presenter of one case for the XVIII Meeting of the Society of Latin American Pediatric Pathologists, Cartagena, Colombia, August 8-9, 2017.

Four presentations at the XXXI Meeting of the Society of Latin American Pathologists, Cartagena, Colombia, August 8-12, 2017, entitled:

1. Round table on granulomas of the gastrointestinal tract
2. Case presentation for the gastrointestinal pathology session
3. *Helicobacter pylori* and cancer

#### 4. Case presentation for the infectious disease pathology session

Course entitled: "Team approach to diagnosis of fungal infections", at the 2017 American Society for Clinical Pathologists (ASCP) Annual Meeting, Chicago, September 6-9, 2017.

Course entitled: "Infections without borders", at the 2017 American Society for Clinical Pathologists (ASCP) Annual Meeting, Chicago, September 6-9, 2017.

Presentation entitled: "Unusual infections of the gastrointestinal tract" in the symposium entitled "Infectious Diseases of the Gastrointestinal Tract", at the 2017 American Society for Clinical Pathologists (ASCP) Annual Meeting, Chicago, September 6-9, 2017.

Video microscopy presentation of two cases in the symposium entitled "A Practical Approach to Common and Uncommon Gastrointestinal Infections" at the 2017 American Society for Clinical Pathologists (ASCP) Annual Meeting, Chicago, September 6-9, 2017.

Presentation entitled: "Case based learning for pathologists: Kenya project" in the symposium entitled "Educational Approaches and Models for Capacitation Pathology in Africa", at the 2017 American Society for Clinical Pathologists (ASCP) Annual Meeting, Chicago, September 6-9, 2017.

Lecture presentation: "Pathology: role in cancer care" for the ASCP symposium presented at the International Union Against Cancer (UICC), Mexico City, November 15, 2017.

Key note address: "The role of the clinical laboratory in patients with cancer" presented at the X Medical Resident Symposium of the National (Mexican) Institutes of Health, Mexico City, November 17, 2017.

Invited speaker to the Binford Dammin Society of Infectious Disease Pathologists (companion USCAP society): "Interdisciplinary approach to infectious disease pathology diagnosis". Vancouver, BC, March, 2018.

Invited speaker to the IV Annual Congress of Mexican Pathologists and LX Congress of the Mexican Association of Pathologists: "Chagas disease Animal models". Ixtapa-Zihuatanejo, Mexico, April 27-May 1<sup>st</sup>, 2018.

Invited speaker to the XLIII National (Mexican) Congress of Infectious Diseases and Clinical Microbiology: "Cases of difficult diagnosis", interactive session presented in conjunction with Emory University. Merida, Yucatan, May 23-26, 2018.

Infectious Diseases Pathology pre-meeting seminar in the Winter Argentinian Society Meeting: "Infections in patients with hematological malignancies". June 27, 2018.

Invited speaker to the 2018 Winter Argentinian Society Meeting: "Infections without borders". June 29, 2018.

Invited speaker to the Colombian National Anatomic Pathology Meeting, title "Unusual infections of the gastrointestinal tract", in Medellin, Colombia, August 15-17, 2018.

Presentation entitled: "Microbiology compare and contrast" in the workshop "Capacitating Clinical Pathology Laboratory Medicine Training and Practice in Low Resources Settings in Africa" at the 2018 American Society for Clinical Pathologists (ASCP) Annual Meeting, Baltimore, October 3-5, 2018.

Presentation entitled: "Infectious Disease Pathologists Perspective" in the workshop entitled "Granulomas in the gastrointestinal tract", at the 2018 American Society for Clinical Pathologists (ASCP) Annual Meeting, Baltimore, October 3-5, 2018.

Presenter and moderator of the workshop entitled: "What Would a Worldwide List of Essential Diagnostics Tests Look Like" at the 2018 American Society for Clinical Pathologists (ASCP) Annual Meeting, Baltimore, October 3-5, 2018.

Course entitled: "Infections without borders", at the 2018 American Society for Clinical Pathologists (ASCP) Annual Meeting, Baltimore, October 3-5, 2018.

Invited speaker to the XXXIII Central American and Caribbean Congress of Pathology: "Infections in patients being treated for hematological malignancies", San Salvador, El Salvador. November 5-9, 2018.

Invited speaker to present Medicine Grand Rounds: "Interdisciplinary approach to diagnosis of fungal infections". Maputo, Mozambique. December 5, 2018.

Invited speaker to present 2 special conferences in the Pathology Department: "Tracking specimens" and "Quality control in Pathology". Maputo, Mozambique. December 4, 2018.

Invited speaker to present a case at the Infectious Disease Pathology Evening Case Presentation Session during the United States and Canada Academy of Pathology 2019 Annual Meeting, National Harbor, MD March 20, 2019.

Invited speaker to the 14<sup>th</sup> Puerto Rican Annual Meeting of Infectious Diseases: "Incorporating pathology into the infectious disease practice." Dorado, PR, May 4, 2019.

Invited speaker to the XLIV Mexican National Meeting on Infectious Diseases and Microbiology, presenting: "Update on microbiology diagnostic methods", Leon, Mexico, May 24, 2019.

Invited speaker to the LXI Association of Mexican Pathologists presenting: "One health and emerging and reemerging infectious diseases", Aguascalientes, Mexico, May 25, 2019.

Invited speaker to the meeting of the "Emory-Georgia TB Research Training Program" (EGTB-RTP), funded by Fogarty International, in Tbilisi and Lapota, Republic of Georgia, June 5-8, 2019 presenting: "Workshop on Leadership" and "Scientific writing".

Invited speaker to the Mexico Medical Mycology Course with the presentation: "Histopathology and advanced microscopy for detection of fungi, clinical applications" in Oaxaca, Mexico, June 13, 2019.

Invited professor for the "Management workshop" at the International Academy of Pathology African Assembly, Johannesburg, South Africa, September 21-24, 2019.

Invited speaker to the XXXII Meeting of the Society of Latin American Pathologist with two presentations entitled: 1. Buruli ulcer, and 2. Case (Anemia due to parvovirus in an HIV patient). Lima, Peru, October 9, 2019.

Inaugural plenary speaker to the X Congress of the Grupo Angeles with the presentation entitled: "Pandemics, epidemics and emerging infections" shared with Dr Carlos del Rio, Guadalajara, Mexico, October 24, 2019.

Invited speaker to the education workshop at the X Congress of the Grupo Angeles with the presentation entitled: "New teaching methods", Guadalajara, Mexico, October 24, 2019.

Invited speaker to the XIX Mexican National Congress of Pathology/ Congress of the International Academy of Pathology with the presentation: "Practice of an Infectious Disease Pathologist", Chihuahua, Mexico, November 3<sup>rd</sup>, 2019.

Invited speaker to the 46th Remington Winter Course in Infectious Diseases, presentations: "Identifying Pathogens in Tissue: Anatomic Pathology Primer for the ID physician", and "Late Breaker: Coronavirus update", February 10-14, 2020

Invited speaker to the Binford Dammin Infectious Disease Pathology Companion meeting with the lecture: "Fungal infections of the gastrointestinal tract", Los Angeles, CA, March 1<sup>st</sup>, 2020.

Invited speaker to present a case at the Infectious Disease Pathology Evening Case Presentation Session during the United States and Canada Academy of Pathology 2020 Annual Meeting, Los Angeles, CA, March 2, 2020.

Invited panelist in the American Society for Clinical Pathology Townhall (CME activity) entitled: "COVID-19 biosafety & the laboratory: Current guidelines and experience." June 9, 2020.

Invited speaker and panelist to the Association of Pathology Chairs with the presentation entitled: "Clinical Pathology Education to Medical Students." July 20, 2020.

Invited to present Pathology Grand Rounds at Moffitt Cancer Center, presentation entitled: "Emerging Infections": August 6, 2020.

Invited speaker to the: XXXIV Congreso Centroamericano y del Caribe de Patología (inaugural presentation) entitled "Three emerging coronavirus in the last two decades", Guatemala, September 17, 2020.

## **27. Invitations to Regional or Local Conferences (last 5 years):**

Emory University Infectious Diseases Seminar: "Incorporating pathology in the practice of Infectious Diseases: Myths and reality." Atlanta, GA, September 2014.

Emory University Coursera on Ebola: "Diagnosis of patients under investigation for Ebola and pathology and pathogenesis caused by the Ebolavirus" Atlanta, GA, April 2015.

Emory University, Gastrointestinal Diseases Grand Rounds: "From common to unusual GI infectious diseases". September, 2015.

Emory University Academy of Internal Medicine Educators: "Turning an education idea into an academic study" November, 2016.

Featured Lecturer for Laboratory Week 2019: "Around Laboratories of the world in 60 minutes". Emory University Hospital, April 23, 2019.

Emory University Internal Medicine Grand Rounds: Clinical Pathologic Correlation Conference (CPC): Diagnosis Coccidiomycosis. November 19, 2019.

## **28. Other Activities:**

Grant Reviewer: AXA Research Fund doctoral grants, a European agency that funds projects related to socio-economic, environmental and life risks (grants regarding Nipah virus), 2011

Grant Reviewer: NIH funded Atlanta Center for Microsystems-Engineered Point of Care Technologies (ACME-POCT). Review of grants related to “acute, emergency, and critical care medicine”, 2019.

## 29. Bibliography:

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#### a. Published and accepted research articles (clinical, basic science, other) in refereed journals:

\* Indicates first author was in training when the manuscript was prepared.

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2. \* **Guarner J**, Austin GE, Nassar VH, Sarma PR, Boedecker E. Biclonal gammopathy (IgG kappa and IgG lambda) in a patient with non-Hodgkin's lymphoma. *Arch Pathol Lab Med* 1986;110: 445-8.
3. \* **Guarner J**, Robey SS, Gupta PK. Cytologic detection of *Pneumocystis carinii*: A comparison of papanicolau and other histochemical stains. *Diagn Cytopathol* 1986;2: 133-7.
4. \* **Guarner J**, del Rio C, Slade B. Tuberculosis as a manifestation of the acquired immunodeficiency syndrome. *JAMA* 1986;256: 3092.
5. \* **Guarner J**, Hanzlick R. Suicide by hanging. A review of 56 cases. *Am J Forensic Med Pathol* 1987;8: 23-6.
6. \* **Guarner J**, Brynes RK, Chan WC, Birdsong G, Hertzler G. Primary non-Hodgkin's lymphoma of the heart in two patients with the acquired immunodeficiency syndrome. *Arch Pathol Lab Med* 1987;111: 254-6.
7. \* **Guarner J**, Cohen C. Vulvar Paget's disease. Cytologic and immunohistologic diagnosis of a case. *Acta Cytologica* 1988;32: 727-30.



8. \* del Rio C, **Guarner J**, Honig EG, Slade B. Sputum examination in the diagnosis of *Pneumocystis carinii* pneumonia in the acquired immunodeficiency syndrome. Arch Pathol Lab Med 1988;112: 1229-32.
9. \* **Guarner J**, Cohen C, DeRose PB. Histogenesis of extramammary and mammary Paget cells. An immunohistochemical study. Am J Dermatopathol 1989;11: 313-8.
10. \* **Guarner J**, Grossman B, Judd R, Wideman C, Evatt B. Multiple arteriovenous malformations of the small intestine in a patient with protein S deficiency. Am J Clin Pathol 1989;92: 374-8.
11. \* **Guarner J**, del Rio C, Williams P, McGowan JE. Case report: fungal peritonitis caused by *Curvularia lunata* in a patient undergoing peritoneal dialysis. Am J Med Sci 1989;298: 320-3.
12. \* **Guarner J**, del Rio C, Hendrix L, Unger ER. Composite Hodgkin's and non-Hodgkin's lymphoma in a patient with AIDS. Cancer 1990;66: 796-800.
13. \* **Guarner J**, Unger ER. Association of Epstein-Barr virus in epithelioid angiomatosis of AIDS patients. Am J Surg Pathol 1990;14: 956-60.
14. **Guarner J**, Dominguez-Malagon HR, Meneses-Garcia A. Ossifying fibromyxoid tumor. Am J Surg Pathol 1990;14: 1167-9.
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16. **Guarner J**, Mohar A, Parsonnet J, Halperin D. The association of *Helicobacter pylori* with gastric cancer and preneoplastic gastric lesions in Chiapas, Mexico. Cancer 1993;71:297-301.
17. Cohen C, **Guarner J**, DeRose PB. Mammary Paget's disease and associated carcinoma, an immunohistochemical study. Arch Pathol Lab Med 1993;117: 291-4.

18. **Guarner J**, Barrientos MC, Verástegui E, Volkow P, Mohar A. Beta 2 microglobulin levels in Mexican patients with AIDS: association with stage of the disease. *Rev Inst Nal Cancerol (Mex)* 1993;39: 1911-15. (Spanish)
19. Salles MT, Sobrevilla P, **Guarner J**, Reynoso E, Acosta MA. Cytogenetic findings in chronic myelogenous leukemia and prognostic correlation in patients of the Instituto Nacional de Cancerologia, México. *Gac Med Mex* 1994;130: 1-6. (Spanish)
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22. \* Alvarez MG, **Guarner J**, Terres A. Laboratory productivity before and after installing a computer system. *Rev Invest Clín (Mex)* 1995;47: 29-34. (Spanish)
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**d. Symposium contributions:**

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**d. Book chapters:**

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**e. Book reviews:**

1. Pathology and pathophysiology of AIDS and HIV-related diseases, edited by SJ Harawi. Reviewed in JAMA 264: 1476, 1990
2. Pathology of AIDS: textbook and atlas of diseases associated with acquired immune deficiency syndrome, by HL Ioachim. Reviewed in JAMA 264: 1476

**f. Manuals, videos, computer programs, and other teaching aids:**

Editor of the Microbiology vignette website:

<http://www.path.emory.edu/Vignettes/>

Username and Password: MicroV

Editor of the Emory Pathology eLearning Portal website:

<http://path.emory.edu/EPeP/> Username and Password: EPeP

**g. Other publications:**

Diffusion of science communication:

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2. Cohen C, **Guarner J**, DeRose P. Paget's disease (mammary and extramammary). Immunohistochemical diagnosis. Emory University Journal of Medicine 2: 33-9, 1988.

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