

**Program for the 63rd Annual Coccidioidomycosis Study Group Meeting**  
**University of California at Davis Medical Center**  
**Sacramento, CA**  
**April 5–6, 2019**

**Friday, April 5**

**1:00 – 1:10 pm**

**INTRODUCTION**

**1:10 – 4:30 pm**

**SESSION 1: ECOLOGY AND EPIDEMIOLOGY**

**Moderator: Rebecca Sunenshine**

1:10 pm

**Detection and characterization of onygenalean fungi associated with prairie dogs in northern Arizona.** Bridget Barker<sup>1</sup>, Marcus Teixeira<sup>2</sup>, Kaitlyn Parra<sup>1</sup>, Julie Hempleman<sup>3</sup>, Jason Stajich<sup>4</sup>, Anne Justice-Allen<sup>5</sup>. <sup>1</sup>Northern Arizona University, Flagstaff, AZ, USA; <sup>2</sup>University of Brasilia, Brasilia, Brazil; <sup>3</sup>TGen-North, Flagstaff, AZ, USA; <sup>4</sup>UC-Riverside, Riverside, CA, USA; <sup>5</sup>AZ Game and Fish, Phoenix, AZ, USA. [*Abstract #1*]

1:30 pm

**Environmental niche modeling of *Coccidioides* spp. in Washington state.** Morgan Gorris<sup>1</sup>, Amy Salamone<sup>2</sup>, Wayne Clifford<sup>2</sup>, Charles S. Zender<sup>1</sup>, Kathleen K. Treseder<sup>3</sup>, James T. Randerson<sup>1</sup>. <sup>1</sup>Department of Earth System Science, University of California, Irvine, Irvine, USA; <sup>2</sup>Zoonotic Disease Program, Washington State Department of Health, Olympia, USA; <sup>3</sup>Department of Ecology and Evolutionary Biology, University of California, Irvine, Irvine, USA. [*Abstract #25*]

1:50 pm

**Coccidioidomycosis in U.S. residents returning from house-building trips in Baja California, Mexico, June–July, 2018.** Mitsuru Toda<sup>1</sup>, Diego Cacers<sup>1</sup>, Mary Pomeroy<sup>1</sup>, Genevieve Bergeron<sup>1,2</sup>, Eliza Wilson<sup>2</sup>, Patrick Franklin<sup>3</sup>, Laura Kresl<sup>4</sup>, Kristy Lunquest<sup>5</sup>, Hanna Oltean<sup>6</sup>, Chelsea Raybern<sup>7</sup>, Mark Lindsley<sup>1</sup>, Tom Chiller<sup>1</sup>, Brendan Jackson<sup>1</sup>, Orion McCotter<sup>1</sup>. <sup>1</sup>Centers for Disease Control and Prevention, Atlanta, USA; <sup>2</sup>New York City Department of Health and Mental Hygiene, New York, USA; <sup>3</sup>Missouri Department of Health and Senior Services, Jefferson City, USA; <sup>4</sup>Kansas City Missouri Health Department, Kansas City, USA; <sup>5</sup>Maryland Department of Health, Baltimore, USA; <sup>6</sup>Washington State Department of Health, Shoreline, USA; <sup>7</sup>Kansas Department of Health and Environment, Topeka, USA. [*Abstract #8*]

2:10 pm

**Analysis of coccidioidomycosis test data from a large commercial laboratory in Arizona, 2013–2017.** Guillermo Adame<sup>1</sup>, Mohammed Khan<sup>1,2</sup>, Shane Brady<sup>1</sup>. <sup>1</sup>Arizona Department of Health Services, Phoenix, USA; <sup>2</sup>Laney Graduate School and Rollins School of Public Health, Emory University, Atlanta, USA. [*Abstract #37*]

**2:30 – 3:00 pm**

**BREAK AND POSTER VIEWING**

3:00 pm

**Coccidioidomycosis outcomes among hospitalized pregnant women – California, 2000 – 2016.** Victoria Chu, Gail Cooksey, Seema Jain. California Department of Public Health, Richmond, USA. [Abstract #47]

3:20 pm

**Sources of Valley fever information reported by Kern County farm workers.** Catherine Portillo-Silva, MA, ABT<sup>1</sup>, Carol Sipan, RN, MPH, PhD<sup>1</sup>, Stephen McCurdy, MD, MPH<sup>2</sup>.

<sup>1</sup>University of California Merced, Health Sciences Research Institute, Merced, CA, USA;

<sup>2</sup>University of California Davis School of Medicine, Davis, CA, USA. [Abstract #44]

3:40 pm

**Self-ordered testing for coccidioidomycosis in Arizona.** Guillermo Adame<sup>1</sup>, Mohammed Khan<sup>1,2</sup>, Shane Brady<sup>1</sup>. <sup>1</sup>Arizona Department of Health Services, Phoenix, USA; <sup>2</sup>Laney Graduate School and Rollins School of Public Health, Emory University, Atlanta, USA. [Abstract #42]

4:00 pm

**Panel discussion**

**Saturday, April 6**

**8:20 – 8:30 am**

**INTRODUCTION**

**8:30 – 9:30 am**

**SESSION 3: EPIDEMIOLOGY (CONTINUED)**

8:30 am

**Coccidioidomycosis outbreaks among inmate wildland firefighters in California.**

Kimberley D. Lucas, Charlotte Wheeler, Janet C. Mohle-Boetani. California Correctional Health Care Services, Elk Grove, USA. [Abstract #51]

8:50 am

**Regional analysis of coccidioidomycosis cases, California, 2000 – 2017.** Gail Sondermeyer Cooksey<sup>1</sup>, Alyssa Nguyen<sup>2</sup>, Seema Jain<sup>1</sup>, Duc Vugia<sup>1</sup>. <sup>1</sup>California Department of Public Health, Richmond, USA; <sup>2</sup>California Department of Public Health, Sacramento, USA. [Abstract #52]

9:10 am

**Panel discussion**

**9:20 – 10:30 am**

**SESSION 4: BASIC SCIENCE**

**Moderator: Karl Clemons**

9:30 am

**Identification of *Coccidioides* species by high resolution melting analysis.** Claudia Flores Sosa<sup>1,2</sup>, Victor Alberto Hernández Hernández<sup>1</sup>, Carlos Cabello Gutiérrez<sup>1</sup>, César Jhonatan

Montiel Mata<sup>3</sup>, Jaqueline Alicia Cortés Dávila<sup>2</sup>, Anjarath Higuera Iglesias<sup>1</sup>, Teresa García Pérez<sup>1</sup>, Gabriel Palma Cortés<sup>1,4</sup>. <sup>1</sup>National Institute of Respiratory Diseases, Mexico City, Mexico; <sup>2</sup>Autonomous University of Tlaxcala, Tlaxcala, Mexico; <sup>3</sup>Metropolitan Autonomous University, Mexico City, Mexico; <sup>4</sup>National Autonomous University of Mexico, Mexico City, Mexico. [Abstract #2]

9:50 am

**Elucidating molecular determinants of *Coccidioides* (Valley fever) infections in the southwestern United States using genome wide association studies.** Jessie Uehling<sup>1,2</sup>, Bastian Joehnk<sup>2</sup>, Mark Voorhies<sup>2</sup>, Heather Mead<sup>3</sup>, John Taylor<sup>1</sup>, Rachel Brem<sup>1</sup>, Bridget Barker<sup>1</sup>, Anita Sil<sup>2</sup>. <sup>1</sup>UC Berkeley, Berkeley, CA, USA; <sup>2</sup>UC San Francisco, San Francisco, CA, USA; <sup>3</sup>Northern Arizona University, Flagstaff, AZ, USA. [Abstract #7]

10:10 am

**Accurate coccidioidomycosis detection using targeted plasma and urine metabolic profiling.** Paniz Jasbi<sup>1</sup>, Natalie Mitchell<sup>1</sup>, Xiaojian Shi<sup>1</sup>, Thomas Grys<sup>2</sup>, Yiping Wei<sup>1</sup>, Li Liu<sup>3,4</sup>, Douglas Lake<sup>1</sup>, Haiwei Gu<sup>1</sup>. <sup>1</sup>Arizona State University, Scottsdale, USA; <sup>2</sup>Mayo Clinic, Phoenix, USA; <sup>3</sup>Arizona State University, Tempe, USA. <sup>4</sup>Mayo Clinic, Scottsdale, USA. [Abstract #13]

**10:20 – 10:50 pm**

**BREAK AND POSTER VIEWING**

**10:50 – 12:10**

**SESSION 5: BASIC SCIENCE (continued)**

10:50 am

**A canine target species challenge model to evaluate efficacy of a coccidioidomycosis vaccine.** Lisa Shubitz<sup>1</sup>, Richard Bowen<sup>2</sup>, Edward Robb<sup>3</sup>, Daniel Powell<sup>1</sup>, Angela Bosco-Lauth<sup>2</sup>, Airn Hartwig<sup>2</sup>, Hien Trinh<sup>1</sup>, Maria Lewis<sup>1</sup>, Jeffrey Frelinger<sup>1</sup>, John Galgiani<sup>1</sup>. <sup>1</sup>Valley Fever Center for Excellence, The University of Arizona, Tucson, USA; <sup>2</sup>Colorado State University, Ft. Collins, USA; <sup>3</sup>Anivive Life Sciences, Long Beach, USA. [Abstract #20]

11:10 am

**Immune cell differentiation in response to *Coccidioides*.** Anh Diep, Katrina Hoyer. University of California, Merced, Merced, USA. [Abstract #23]

11:30 am

**Identifying volatile biomarkers for a Valley fever breath test.** Heather Bean<sup>1,2</sup>, Emily Higgins Keppler<sup>1,2</sup>, Heather Mead<sup>3,4</sup>, Bridget Barker<sup>3,4</sup>. <sup>1</sup>Arizona State University, Tempe, AZ, USA; <sup>2</sup>Center for Fundamental and Applied Microbiomics, ASU, Tempe, AZ, USA; <sup>3</sup>Northern Arizona University, Flagstaff, AZ, USA; <sup>4</sup>The Pathogen and Microbiome Institute, Flagstaff, AZ, USA. [Abstract #28]

11:50 am

**Panel discussion**

**12:00 – 1:00 pm**

**LUNCH, BUSINESS MEETING, AND MEMORIALS TO HERB BORO AND FRED FISHER**

1:00 – 1:40 pm

**UPDATES FROM THE CDC AND NIH**

**Moderator: Neil Ampel**

**An observational study to assess the prevalence and outcomes of primary pulmonary coccidioidomycosis in persons aged  $\geq 14$  years presenting with community acquired pneumonia (cap) in endemic areas (sands-ppc).** Emmanuel Walter<sup>1,2</sup>, Susanna Naggie<sup>2</sup>, Maureen Mehigan<sup>3</sup>, Carmelle Norice-Tra<sup>3</sup>. <sup>1</sup>Duke Human Vaccine Institute, Durham, NC, USA; <sup>2</sup>Duke Clinical Research Institute, Durham, NC, USA; <sup>3</sup>National Institute of Allergy and Infectious Diseases, Bethesda, MD, USA. [Abstract #18]

1:40 – 3:40 pm

**SESSION 6: VETERINARY AND CLINICAL SCIENCE**

**Moderator: Susan Hoover**

1:40 pm

**Evaluation of a commercially available, point-of-care *Coccidioides* antibody lateral flow assay to aid in rapid diagnosis of coccidioidomycosis in dogs.** Sallianne Schlacks<sup>1</sup>, Polina Vishkautsan<sup>1</sup>, Lisa Shubitz<sup>2</sup>. <sup>1</sup>Veterinary Specialty Center of Tucson, Tucson, USA; <sup>2</sup>Valley Fever Center for Excellence, University of Arizona, Tucson, USA. [Abstract #45]

2:00 pm

**Tolerability of long-term fluconazole therapy.** Matthew Davis, Minh-Vu Nguyen, Monica Donnelley, George Thompson. UC Davis Health, Sacramento, USA. [Abstract #4]

2:20 pm

**Delays in coccidioidomycosis diagnosis and associated healthcare utilization in Tucson, Arizona.** Fariba Donovan<sup>1,2</sup>, Patrick Wightman<sup>3</sup>, Yue Zong<sup>1</sup>, Luke Gabe<sup>2</sup>, Aneela Majeed<sup>2</sup>, Tiffany Ynosencio<sup>2</sup>, Edward Bedrick<sup>4</sup>, John Galgiani<sup>1,2</sup>. <sup>1</sup>Valley Fever Center for Excellence, University of Arizona College of Medicine – Tucson, Tucson, Arizona, Tucson, USA; <sup>2</sup>Department of Medicine, University of Arizona College of Medicine – Tucson, Tucson, Arizona, Tucson, USA; <sup>3</sup>Center for Population Science & Discovery, University of Arizona College of Public Health, Tucson, Arizona, Tucson, USA; <sup>4</sup>Department of Epidemiology and Biostatistics, Arizona Health Sciences, University of Arizona, Tucson, Arizona, Tucson, USA. [Abstract #5]

2:40 pm

**Informatic profile of primary care practitioners' testing and managing patients with coccidioidomycosis (CM).** Jie Pu<sup>1</sup>, Fariba Donovan<sup>2,3</sup>, John Galgiani<sup>2,3</sup>. <sup>1</sup>Banner Health Corp., Phoenix, USA; <sup>2</sup>Valley Fever Center for Excellence, University of Arizona, Tucson, USA. <sup>3</sup>Department of Medicine, UA College of Medicine, Tucson, USA. [Abstract #15]

3:00 pm

**Posaconazole-induced apparent mineralocorticoid excess.** Minh-Vu Nguyen<sup>1,2</sup>, Matthew Davis<sup>1</sup>, Monica Donnelley<sup>1</sup>, Rebecca Wittenberg<sup>1</sup>, George Thompson<sup>1,2</sup>. <sup>1</sup>University of California, Davis Health, Sacramento, USA; <sup>2</sup>University of California, Davis School of Medicine, Sacramento, USA. [Abstract #21]

3:20 pm

**An examination of chronic pulmonary coccidioidomycosis in the pre-antifungal era.** Derek Bays<sup>1</sup>, George Thompson<sup>2</sup>, Alana Freifeld<sup>3</sup>, Susan Reef<sup>4</sup>, Linda Snyder<sup>5</sup>, Milt Huppert<sup>6</sup>, David Salkin<sup>6</sup>, John Galgiani<sup>7</sup>. <sup>1</sup>Department of Internal Medicine, University of California, Davis, Davis, USA; <sup>2</sup>Medical Microbiology and Immunology, University of California, Davis, Davis, USA; <sup>3</sup>California Northstate University College of Medicine, Elk Grove, USA; <sup>4</sup>Centers for Disease Control and Prevention, Atlanta, USA; <sup>5</sup>Department of Medicine, Division of Pulmonary and Critical Care Medicine, University of Arizona, Phoenix, USA; <sup>6</sup>Deceased, N/A, USA; <sup>7</sup>Valley Fever Center for Excellence, University of Arizona College of Medicine, Tucson, USA. [Abstract #41]

3:40

**Cavitary coccidioidomycosis at chest CT: the impact of triazole therapy.** Renni Panicker, Michael Gotway, Neil Ampel, Janis Blair Mayo Clinic, Phoenix, USA [Abstract #29]

3:50 — 4:00

**Panel discussion**

4:00 — 4:20 pm

**BREAK AND POSTER VIEWING**

4:20 — 5:20 pm

**SESSION 7: CLINICAL CASES**

**Moderator: Royce Johnson**

4:20 pm

**A devastating case of disseminated coccidioidomycosis in a previously undiagnosed AIDS patient.** Golriz Asefi<sup>1,2</sup>, Jeffrey Jolliff<sup>2</sup>, Arash Heidari<sup>1,2</sup>. <sup>1</sup>Valley Fever Institute, Bakersfield, USA; <sup>2</sup>Internal Medicine, Kern Medical-UCLA, Bakersfield, USA. [Abstract #10]

4:35 pm

**Croup can be “cocci”, too: a case of a 9-month-old boy with subglottic coccidioidomycosis mass presenting as persistent croup.** Christina Donath<sup>1,2</sup>, Amit Sah<sup>1,2</sup>, Lulua Mandviwala<sup>2</sup>, Arash Heidari<sup>1,2</sup>. <sup>1</sup>Valley Fever Institute, Bakersfield, USA. <sup>2</sup>Kern Medical, Bakersfield, USA. [Abstract #16]

4:50 pm

**Coccidiomycosis meningitis causing syringomyelia due to type I Chiari malformation: treatment outcome of a case with 14 year follow-up.** Christopher Uchiyama<sup>1</sup>, Darren Teramoto<sup>1</sup>, David Redfield<sup>2</sup>. <sup>1</sup>Division of Neurosurgery, Scripps Clinic Medical Group, La Jolla, CA, USA; <sup>2</sup>Division of Infectious Diseases, Scripps Clinic Medical Group, La Jolla, CA, USA. [Abstract #26]

5:05 pm

**Isavuconazole as salvage therapy in pediatric refractory coccidioidal meningitis case.** Fouzia Naeem<sup>1</sup>, Chokechai Rongkavilit<sup>1,2</sup>, Mohammad Mhaisen<sup>1</sup>, Brenik Kuzmic<sup>3</sup>, Fred Laningham<sup>4</sup>, Patricia Clerkin<sup>5</sup>, James McCarty<sup>2</sup>. <sup>1</sup>Department of Infectious Diseases, Valley

Children's Healthcare, Madera, USA; <sup>2</sup>Department of Pediatrics, Stanford University School of Medicine, Stanford, USA; <sup>3</sup>Department of Pharmacy, Valley Children's Healthcare, Madera, USA; <sup>4</sup>Department of Radiology, Valley Children's Healthcare, Madera, USA; <sup>5</sup>Department of Neurosurgery, Valley Children's Healthcare, Madera, USA. [*Abstract #30*]

**5:20 pm**

**MEETING ADJOURNMENT**

## POSTER PRESENTATIONS

### ECOLOGY

**Expanding the known distribution of *Coccidioides* in Washington state through one health surveillance.** [Abstract #40]

Amy Salamone, Ron Wohrle, David Kangiser, Hanna Oltean, Wayne Clifford.  
Washington State Department of Health, Tumwater, USA.

**Expanding the molecular detection toolkit for *Coccidioides* by documenting genetic variation from patients treated in New Mexico and testing environmental samples.**

[Abstract #34]

Paris Hamm<sup>1</sup>, Miriam Hutchinson<sup>1</sup>, Pascale Leonard<sup>2</sup>, Sandra Melman<sup>3</sup>, Donald Natvig<sup>1</sup>.  
<sup>1</sup>University of New Mexico, Albuquerque, USA; <sup>2</sup>New Mexico Department of Health, Albuquerque, USA; <sup>3</sup>Albuquerque Department of Health, Santa Fe, USA.

### EPIDEMIOLOGY

***Coccidioides* skin testing in a commercially-insured population, United States, 2014–2017.** [Abstract #6]

Kaitlin Benedict, Orion McCotter, Brendan Jackson.  
Centers for Disease Control and Prevention, Atlanta, USA.

**A retrospective evaluation of coccidioidomycosis skin testing in patients with pulmonary coccidioidomycosis in an endemic region.** [Abstract #14]

Neema Mafi, Marlene Girardo, Janis Blair.  
Mayo Clinic, Phoenix, USA.

***Coccidioidomycosis* in Utah 2006-2015: epidemiology, clinical characteristics and outcomes.** [Abstract #27]

Adrienne Carey<sup>1</sup>, Brandon Webb<sup>2</sup>.

<sup>1</sup>Division of Infectious Diseases, University of Utah Health, Salt Lake City, USA; <sup>2</sup>Division of Infectious Diseases, Intermountain Healthcare, Salt Lake City, USA.

**Preliminary results of a case-control study of coccidioidomycosis among hispanic agricultural workers in Kern County, CA.** [Abstract #35]

Stephen McCurdy<sup>1</sup>, Carol Sipan<sup>2</sup>, Catherine Portillo Silva<sup>2</sup>, Heejung Bang<sup>3</sup>, Kirt Emery<sup>4</sup>.

<sup>1</sup>Western Center for Agricultural Health & Safety, University of California Davis School of Medicine, Davis, USA; <sup>2</sup>Health Sciences Research Institute, University of California, Merced, Merced, USA; <sup>3</sup>Department of Public Health Sciences, University of California Davis School of Medicine, Davis, USA; <sup>4</sup>Kern County Public Health Services Department (retired), Bakersfield, USA.

**Valley fever surveillance in Northern Arizona.** [Abstract #36]

Heather Mead<sup>1</sup>, Daniel Kollath<sup>1</sup>, Chelsey Donohoo<sup>2</sup>, Nivedita Nandurkar<sup>3</sup>, Joel Terriquez<sup>3</sup>, Marcus Teixeira<sup>4,1</sup>, Bridget Barker<sup>1</sup>

<sup>1</sup>Northern Arizona University, Flagstaff, USA; <sup>2</sup>Coconino County Health Department, Flagstaff, USA; <sup>3</sup>Flagstaff Medical Center, Flagstaff, USA; <sup>4</sup>University of Brasília Campus Universitário Darcy Ribeiro, Asa Norte, Brazil.

**Coccidioidomycosis, aspergillus and histoplasmosis: clinical and epidemiological contrasts in patients hospitalized at third level of care in Mexico.** [Abstract #38]

Anjarath Higuera Iglesias, Gabriel Palma Cortes, Claudia Flores Sosa, Victor Hernandez Hernandez, Jaqueline Cortés Dávila, Cesar Montiel Mata, Matias García Perez, Carlos Cabello Gutierrez, Elba Valencia Maqueda.

National Institute of Respiratory Diseases "Ismael Cosío Villegas", Mexico City, Mexico.

**Frequencies of coccidioidomycosis and other fungal infections during 27 years in the National Institute of Respiratory Diseases "Ismael Cosío Villegas".** [Abstract #39]

Gabriel Palma-Cortés, Claudia Flores-Sosa, Victor Hernández-Hernández, Jaqueline Cortés-Dávila<sup>1</sup>, Cesar Montiel-Mata, Matias García-Gutiérrez, Carlos Cabello-Gutierrez, Victor Sánchez-Nájera, Elba Valencia-Maqueda, Anjarath L Higuera-Iglesias.

National Institute of Respiratory Diseases "Ismael Cosío Villegas", Mexico City, Mexico.

**Coccidioidomycosis in Baja California.** [Abstract #43]

Ofelia Candolfi-Arballo<sup>1</sup>, Amanda Dávila-Lezama<sup>1</sup>, Martín Arce-Ramírez<sup>2</sup>, Jorge Arellano Estrada<sup>3</sup>, Cinthia López Lara<sup>3</sup>, Maribel Kim Salas<sup>3</sup>, Laura Castañón-Olivares<sup>4</sup>.

<sup>1</sup>Universidad Autónoma de Baja California, Tijuana, Mexico; <sup>2</sup>Clínica Derma Care, Tijuana, Mexico; <sup>3</sup>Secretaría de Salud, Tijuana, Mexico; <sup>4</sup>Universidad Nacional Autónoma de México, México, Mexico.

**Coccidioidomycosis outbreak among wildlife biologists working at a solar farm – San Benito County, California, 2016–2018.** [Abstract #49]

Yasser Bakhsh<sup>1,2</sup>, Natalie Demeter<sup>3</sup>, Rebecca Laws<sup>1</sup>, Gail Cooksey<sup>2</sup>, Jennifer McNary<sup>2</sup>, Gail Newel<sup>4</sup>, Amanda Kamali<sup>2</sup>, Barbara Materna<sup>2</sup>, Seema Jain<sup>2</sup>.

<sup>1</sup>Centers for Disease Control and Prevention, Atlanta, GA, USA; <sup>2</sup>California Department of Public Health, Richmond, CA, USA; <sup>3</sup>California Department of Public Health, Sacramento, CA, USA; <sup>4</sup>San Benito County Public Health Services, Hollister, CA, USA.

**BASIC SCIENCE**

**Carbo-loading in fungal lung pathogens: a quantitative analysis of cazyme abundance and resulting glycan populations.** [Abstract #3]

Natalie Mitchell<sup>1</sup>, Thomas Gryns<sup>2</sup>, Douglas Lake<sup>1</sup>.

<sup>1</sup>Arizona State University, Tempe, USA; <sup>2</sup>Mayo Clinic Arizona, Phoenix, USA.

**VETERINARY AND CLINICAL SCIENCE**

**Clinical features of cats diagnosed with coccidioidomycosis in Arizona, 2004-2018.**

[Abstract #19]

Christine Butkiewicz<sup>1</sup>, Nichole Arbona<sup>2</sup>, Minta Keyes<sup>3</sup>, Lisa Shubitz<sup>1</sup>.

<sup>1</sup>Valley Fever Center for Excellence, Tucson, USA; <sup>2</sup>Kansas State University College of Veterinary Medicine, Manhattan, USA; <sup>3</sup>The Cat Hospital of Tucson, Tucson, USA.

**Treatment failure of acute coccidioidal pneumonia due to pharmacokinetic interaction between itraconazole and phenytoin: a case report.** [Abstract #24]

Cesar Jhonatan Montiel Mata, Claudia Flores Sosa, Jaqueline Alicia Cortés Dávila, Carlos Cabello Gutiérrez, Gabriel Palma Cortés.

National Institute of Respiratory Diseases, CDMX, Mexico.



**Immune cell differentiation in response to *Coccidioides*.** Anh Diep, Katrina Hoyer. University of California, Merced, Merced, USA. [Abstract #23] – also an oral presentation

## **CASE PRESENTATION**

### **First reported case of osteopoikilosis mimicking disseminated osseous coccidioidomycosis.** [Abstract #11]

Golriz Asefi<sup>1,2</sup>, Monica Kumar<sup>3</sup>, Tana Parker<sup>3</sup>, Arash Heidari<sup>1,2</sup>.

<sup>1</sup>Valley Fever Institute, Bakersfield, USA; <sup>2</sup>Internal Medicine, Kern Medical-UCLA, Bakersfield, USA; <sup>3</sup>Family Medicine, Rio Bravo, Bakersfield, USA.

### **A fatal case of *Coccidioides* meningoencephalitis with isolated ventricular hydrocephalus and interventricular hemorrhage.** [Abstract #12]

Golriz Asefi<sup>1,2</sup>, Ramanjeet Sidhu<sup>3</sup>, Rasha Kuran<sup>3</sup>, Joseph Chen<sup>3</sup>, Katayoun Sabetian<sup>3</sup>, Arash Heidari<sup>1,4</sup>.

<sup>1</sup>Valley Fever Institute, Bakersfield, USA; <sup>2</sup>Internal Medicine, Kern Medical-UCLA, Bakersfield, USA; <sup>3</sup>Internal Medicine, Kern Medical-UCLA, Bakersfield, USA; <sup>4</sup>Internal Medicine, Kern Medical-UCLA, Bakersfield, USA.

### **A rare case of disseminated coccidioidomycosis of the gallbladder.** [Abstract #17]

Kulraj Grewal<sup>1</sup>, Mandakini Patel<sup>1</sup>, Simmer Kaur<sup>1</sup>, Greti Petersen<sup>1</sup>, Arman Froush<sup>1</sup>, Saad Thara<sup>1</sup>, Augustine Munoz<sup>1,2</sup>, Arash Heidari<sup>3,2</sup>.

<sup>1</sup>Kern Medical, Bakersfield, CA, USA; <sup>2</sup>Valley Fever Institute, Bakersfield, CA, USA; <sup>3</sup>Kern Medical, Bakersfield, CA, USA.

### **Extrapulmonary coccidioidomycosis presenting as peritonitis.** [Abstract #32]

Carlos D'Assumpcao<sup>1</sup>, Charles Clark<sup>1</sup>, Serghei Burcovschii<sup>1</sup>, Amrit Sah<sup>1,2</sup>, Emily Gunz<sup>1,3</sup>, Jessica McFarland<sup>1,3</sup>, Matthew Gilbert<sup>1,2</sup>, Leila Moosavi<sup>1</sup>, Manasa Kalluri<sup>1</sup>, Janushe Patel<sup>1</sup>, Arash Heidari<sup>1,4</sup>.

<sup>1</sup>Kern Medical-UCLA, Bakersfield, USA; <sup>2</sup>Ross University School of Medicine, Miramar, USA; <sup>3</sup>American University of the Caribbean, Panorama Pines, USA; <sup>4</sup>Valley Fever Institute, Bakersfield, USA.

### **Multifocal osseous coccidioidomycosis masquerading as multiple myeloma.** [Abstract #33]

Carlos D'Assumpcao<sup>1</sup>, Emily Gunz<sup>1,2</sup>, Jessica McFarland<sup>1,2</sup>, Leila Moosavi<sup>1</sup>, Matthew Gilbert<sup>1,3</sup>, Amit Sah<sup>1,3</sup>, Janushe Patel<sup>1</sup>, Arash Heidari<sup>1,4</sup>.

<sup>1</sup>Kern Medical - UCLA, Bakersfield, USA; <sup>2</sup>American University of the Caribbean, Panorama Pines, USA; <sup>3</sup>Ross University School of Medicine, Miramar, USA; <sup>4</sup>Valley Fever Institute, Bakersfield, USA.

### **Concomitant central nervous system toxoplasmosis and seronegative disseminated coccidioidomycosis in a newly diagnosed acquired immune deficiency syndrome patient.** [Abstract #46]

Michael Valdez<sup>1,2</sup>, Leila Moosavi<sup>3,2</sup>, Arash Heidari<sup>1,2</sup>.

<sup>1</sup>Kern Medical-UCLA, Bakersfield, USA; <sup>2</sup>Valley Fever Institute, Bakersfield, USA; <sup>3</sup>Kern Medical-UCLA, Bakersfield, USA.