



# Infectious Diseases/Stewardship Collaborative

**Christine Pham, PharmD, BCIDP**  
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UNIVERSITY  
OF  
CALIFORNIA

UC PHARMACY COLLABORATIVE CONFERENCE

## UC's Mission

*"The distinctive mission of the University is to serve society as a center of higher learning, providing long-term societal benefits through transmitting advanced knowledge, discovering new knowledge, and functioning as an active working repository of organized knowledge. That obligation, more specifically, includes undergraduate education, graduate and professional education, research, and other kinds of public service, which are shaped and bounded by the central pervasive mission of discovering and advancing knowledge."*

— Mission statement from the University of California Academic Plan, 1974-1978

### 34 Members

- 12 Physicians
- 16 ID Pharmacists
- 6 PGY-2 Pharmacy Residents

### Lead: Matthew Davis





### Co-Lead: Christine Pham






# UC Collaborative ID: 2020-2021 Highlights

## NEW Initiatives

	<b>Cost Savings</b>	<ul style="list-style-type: none"> <li>• PRIME Measure 3.1.3 on ASP to reduce anti-MRSA and anti-pseudomonal agent use (received full incentive of \$348,330 for FY20)</li> <li>• Participated in GSK Vaccine Discount Program (saved \$90,000 for FY20)</li> <li>• Ertapenem Expense and Usage Reduction Efforts (saved \$58,000 for FY20)</li> <li>• Micafungin contract price reduction (saved \$14,000 for FY21)</li> <li>• Facilitated the biosimilar conversion program from Neulasta to Ziextenzo in April 2021 (saved \$18,000 to date)</li> </ul>
		<ul style="list-style-type: none"> <li>• Allergy consults for penicillin allergy in elective surgeries</li> <li>• Master ID Order Set</li> <li>• COVID-19 Clinical Pathway</li> <li>• Community Acquired Pneumonia Guideline Updated</li> <li>• NHSN AU Reporting Initiated</li> <li>• ASP Dashboard with Antibiotic Usage Trends</li> <li>• Days of Therapy (DOT) Trend Report for hospitalists and pulm-critical care</li> <li>• Second Rapid Diagnostic Instrument Implementation planned (ePLEX)</li> <li>• Renal Dosing Per Pharmacy Program</li> <li>• Vancomycin Area Under the Curve (AUC) based Dosing Pilot initiated</li> <li>• Coordinated COVID-19 Vaccine/mAb Program for clinics and inpatient</li> </ul>
	<b>Cost Savings</b>	<ul style="list-style-type: none"> <li>• PO Amox Challenge w/EPIC build to de-label low risk PCN allergic pts</li> </ul>
		<ul style="list-style-type: none"> <li>• UC Wide NHSN Dashboard Development</li> <li>• Surgical site infection prophylaxis dashboard and order panel development</li> </ul>

# UC Collaborative ID: 2020-2021 Highlights

## NEW Initiatives

	<b>Cost Savings</b>	<ul style="list-style-type: none"> <li>• Systematic updates to dose rounding in ERX orders</li> <li>• Verigene gram-positive panel implementation</li> <li>• Surgical topical antibiotic use initiative (via preference cards) with goal of transitioning to povidone-iodine</li> </ul>
		<ul style="list-style-type: none"> <li>• Guidelines: Influenza guidelines, appendicitis, beta-lactam allergy guidance</li> <li>• COVID-related functions: treatment guidelines, mAb, clinical trials</li> </ul>
	<b>Cost Savings</b>	<ul style="list-style-type: none"> <li>• Opened Isavuconazole Capsules/Crushed Posaconazole Tablets (&gt;\$200k cost-savings to date)</li> </ul>
		<ul style="list-style-type: none"> <li>• COVID-related functions: treatment guidelines, mAb, clinical trials</li> <li>• New ID FTE Position for OPAT/ASP</li> <li>• Beta-Lactam Prolonged Infusion Optimization</li> <li>• NHSN AU Reporting</li> <li>• Standard Operation Procedure: Neutropenic Fever</li> <li>• Order Sets: General admission for community acquired infections, HAP/VAP</li> <li>• Orthopedic Intraoperative Antimicrobial QI</li> <li>• MRSA Nares Screening per Pharmacy</li> </ul>
	<b>Cost Savings</b>	<ul style="list-style-type: none"> <li>• Beta-lactam allergy management QI</li> <li>• Aztreonam optimization</li> <li>• Cdiff stewardship</li> <li>• Triazole therapeutic drug monitoring analysis and QI</li> </ul>
		<ul style="list-style-type: none"> <li>• NHSN Reporting &amp; AU monitoring tool within Tableau</li> <li>• Syndrome-specific guidelines (ie C diff, pneumonia, etc)</li> <li>• COVID-19 Therapeutics Task Force leadership and guideline development</li> <li>• Vaccine coordination and stewardship</li> </ul>



## CDPH Stewardship Honor Roll

- UCSF – Gold
- UCDMC - Gold
- UCLA – Bronze






## Antimicrobial Stewardship Center of Excellence

- UCLA
- UCDMC



## Other Recognition/Awards



	Sarah Doernberg, MD, MAS, FIDSA	<b>UCSF Health Infectious Disease Team Exceptional Physician Recognition Award</b>
	Shira Abeles, MD	<b>2021 Gold Foundation-Champion of Humanistic Care</b>
	Tara Vijayan, MD, MPH	<b>2020 &amp; 2021 Los Angeles Magazine, Top Doctor</b>
	Stuart Cohen, MD	<b>COVID-19 Town Hall Pop Award</b>
	Monica Donnelley, PharmD	<b>Jeff King Leadership Award Presidential Citation From SCCM Employee Excellence Award Certificate of Recognition for partnering with the UC Davis Police Department and Security Teams on COVID-19 infection prevention and education.</b>
	Helen Lee, PharmD	<b>STAR award in Excellence in Leadership for COVID-19 Vaccination Program at UCI Health</b>






## Teaching

- **UCLA Apple for Preceptor Award**
  - **Matthew Davis, Christine Pham, PharmDs**  
**Golden Apple Award from DGSOM Class of 2020 & 2023**
  - **Tara Vijayan, MD, MPH**
- **UCSF Apple for Preceptor Award**
  - **Katherine Gruenberg, Ripal Jariwala, PharmDs**  
**Tampa General Preceptor Team of the Year**
  - **Ripal Jariwala, PharmD**
- **UCDMC Apple for Preceptor Award**
  - **Nicola Clayton, Monica Donnelley, Jennifer Curello, James Go, PharmDs**
- **UCI Apple for Preceptor Award**
  - **Helen Lee, PharmD**  
**Outstanding Participation in Experiential Education (USC)**
  - **Helen Lee, PharmD**

# UC Collaborative ID: 2020-2021 Highlights



	Sarah Doernberg, MD, MAS, FIDSA	<ul style="list-style-type: none"> <li>• IDWeek 2020 pre-meeting workshop</li> <li>• Neurohospitalist Society 2020</li> <li>• UCSF Health COVID-19 Town Hall</li> </ul>
	Shira Abeles, MD	<ul style="list-style-type: none"> <li>• Vaccine Educational Talks with various groups, including West Coast Surgical Care Affiliates</li> </ul>
	Victor Chen, PharmD	<ul style="list-style-type: none"> <li>• Getting Positive with Vancomycin (available on most major podcast platforms: Spotify, Apple podcasts, Pandora, iHeartRadio, etc.) – 6 episode overview from vancomycin basics to antimicrobial stewardship</li> </ul>
	Helen Lee, PharmD	<ul style="list-style-type: none"> <li>• UCI COVID-19 Vaccine Coordinator at UCI</li> <li>• Served as a judge &amp; abstract reviewer for UC Pharmacy Collaborative Conference 2021</li> <li>• CE Presentation (pre-recorded webinar) on Antibiotic Resistance for TRC Health (Authors of Hospital Pharmacist’s Letter and Hospital Prescriber’s Letter)</li> </ul>



# UC Collaborative ID: 2020-2021 Highlights



**UCLA** Health

<p>Tara Vijayan, MD, MPH</p>	<ul style="list-style-type: none"> <li>• “#9: Arts &amp; Grafts”. Febrile: A Cultured Podcast</li> <li>• Sabbath Town Hall on Covid Vaccines</li> <li>• AHA sponsored Inglewood Active Community Town Hall</li> <li>• Covid Vaccine Townhall</li> <li>• Carnegie Science Center Covid-19 Vaccine Panel Series</li> <li>• Work for various decarceration groups (prison law firms, ACLU, Federal Defenders of San Diego) to reduce COVID in prisons</li> </ul>
<p>Ishminder Kaur, MD</p>	<ul style="list-style-type: none"> <li>• Speaker for California Association of Neonatologists and AAP District IX Section on Neonatal-Perinatal Medicine Cool Topics in Neonatology Conference</li> <li>• Speaker for Tower Health Maternal Child Health Virtual Conference</li> <li>• AAP Speaker for California Chapter</li> <li>• Speaker for California Pediatric ASP Meeting</li> </ul>
<p>Matthew Davis, PharmD</p>	<ul style="list-style-type: none"> <li>• Remdesivir SIDP Video</li> <li>• American College of Medical Toxicology Webinar</li> <li>• Contagion Live Interview</li> <li>• HHSP Covid Therapeutics Update</li> </ul>

# UC Collaborative ID: 2020-2021 Highlights



**UC DAVIS**  
**HEALTH**

Nicole Clayton,  
PharmD

- CSHP Seminar Presentation (2020 Seeing through the tears: Precepting an emotional student)
- ASHP National Preceptor Conference Presentation
- Pacific Coast Preceptor Conference
- UC Davis Annual ID Continuing Education Conference

Jennifer Curello,  
PharmD

- Immunization certification/vaccinated patients at COVID-19 Clinic
- PSAP reviewer Resistant Strep Pneumo Chapter (2021 Book)

Monica Donelley,  
PharmD

- Speaker at Society of Critical Care Congress (SCCM)
- Speaker on COVID-19 current and experimental agents posted as a resource for the Society of Critical Care Medicine
- Speaker on PEP and PREP for CE accreditation
- UC Collaborative Judge/Abstract reviewer 2020 and 2021
- Mentor for a Sheldon High School – Biotechnology Academy
- Serve on the diversity and inclusion committee for Touro Univ
- OPAT podcast SIDP breakpoints part I and II



1. Jariwala R, Zeitler K, Piccicacco N. **Implementation of Rapid Diagnostic Testing.** *Pharmacy Purchasing and Products.* April 2020: 17(4).
2. Appa A, Adamo M, Le S, Davis J, Winston L, Doernberg SB, Chambers H, Martin M, Hills NK, Coffin PO, Jain V. **Comparative one-year outcomes of invasive Staphylococcus aureus infections among persons with and without drug use: an observational cohort study.** *CID* 2021. Apr 27: ciab367. doi: 10.1093/cid/ciab367. Online ahead of print.
3. Grumbach K, Judson T, Desai M, Jain V, Lindan C, Doernberg SB, Holubar M. **Association of Race/Ethnicity With Likelihood of COVID-19 Vaccine Uptake Among Health Workers and the General Population in the San Francisco Bay Area.** *JAMA Intern Med.* 2021 Mar 30:e211445. doi: 10.1001/jamainternmed.2021.1445. Online ahead of print.
4. Anstey KM, Anstey JE, Doernberg SB, Chen LL, Otani IM. **Perioperative use and safety of cephalosporin antibiotics in patients with documented penicillin allergy.** *J Allergy Clin Immunol Pract.* 2021 Mar 23:S2213-2198(21)00323-8. doi: 10.1016/j.jaip.2021.03.017. Online ahead of print.
5. Trinh TD, Strnad L, Damon L, Dzundza JH, Graff LR, Griffith LM, Hilts-Horeczko A, Olin R, Shenoy S, DeVoe C, Wang L, Rodriguez-Monguio R, Gu TM, Hampton SR, Macapinlac BAC, Yang K, Doernberg SB. **Reductions in vancomycin and meropenem following the implementation of a febrile neutropenia management algorithm in hospitalized adults: An interrupted time series analysis.** *ICHE.* 2021 Jan 25:1-8. doi: 10.1017/ice.2020.1368. Online ahead of print.
6. Bond AR, Bainbridge E, Doernberg SB, et al. **Disseminated Legionella micdadei infection in a liver transplant patient presenting as pulmonary nodules and a laryngeal lesion.** *Transpl Infect Dis.* 2021 Jun;23(3):e13563. doi: 10.1111/tid.13563. Epub 2021 Feb 18.
7. Kalil AC, Patterson TF, et al; ACTT-2 Study Group Members. **Baricitinib plus Remdesivir for Hospitalized Adults with Covid-19.** *NEJM.* 2021 Mar 4;384(9):795-807. doi: 10.1056/NEJMoa2031994. Epub 2020 Dec 11.
8. Rowe TA, Jump RLP, Andersen BM, Banach DB, Bryant KA, Doernberg SB, et al. **Reliability of nonlocalizing signs and symptoms as indicators of the presence of infection in nursing-home residents.** *ICHE* 2020. Dec 9:1-10. doi: 10.1017/ice.2020.1282. Online ahead of print.
9. Mummaneni PV, Burke JF, Chan AK, Sosa JA, Lobo EP, Mummaneni VP, Antrum S, Berven SH, Conte MS, Doernberg SB, et al. **Consensus-based perioperative protocols during the COVID-19 pandemic.** *J Neurosurg Spine.* 2020 Oct 2:1-9. doi: 10.3171/2020.6.SPINE20777. Online ahead of print.
10. Bystritsky RJ, Beltran A, Young AT, Wong A, Hu X, Doernberg SB. **Machine learning for the prediction of antimicrobial stewardship intervention in hospitalized patients receiving broad-spectrum agents.** *Infect Control Hosp Epidemiol.* 2020 Sep;41(9):1022-1027. doi: 10.1017/ice.2020.213. Epub 2020 Jun
11. Hao S, Abdelghany M, Lyden A, Sit R, Tan M, Tato CM, DeRisi JL, Miller S, Doernberg SB, Langelier C. **Genomic Profiling of Evolving Daptomycin Resistance in a Patient with Recurrent Staphylococcus argenteus Sepsis.** *Antimicrob Agents Chemother.* 2020 Sep 21;64(10):e00961-20. doi: 10.1128/AAC.00961-20. Print 2020 Sep 21.

12. Fung M, Chiu CY, DeVoe C, Doernberg SB, et al. **Clinical outcomes and serologic response in solid organ transplant recipients with COVID-19: A case series from the United States.** *Am J Transplant.* 2020 Nov;20(11):3225-3233. doi: 10.1111/ajt.16079. Epub 2020 Jul 17.
13. King HA, Doernberg SB, et al. **Patients' Experiences with Staphylococcus aureus and Gram-Negative Bacterial Bloodstream Infections: A Qualitative Descriptive Study and Concept Elicitation Phase to Inform Measurement of Patient-Reported Quality of Life.** *CID.* 2020 May 23:ciaa611. doi: 10.1093/cid/ciaa611. Online ahead of print.
14. Banerjee R, Komarow L, Virk A, Rajapakse N, Schuetz AN, Dylla B, Earley M, Lok J, Kohner P, Ihde S, Cole N, Hines L, Reed K, Garner OB, Chandrasekaran S, de St Maurice A, Kanatani M, Curello J, Arias R, Swearingen W, Doernberg SB, Patel R; Antibacterial Resistance Leadership Group. **Randomized trial evaluating clinical impact of RAPid IDentification and Susceptibility testing for Gram Negative bacteremia (RAPIDS-GN).** *CID.* 2020 May 7:ciaa528. doi: 10.1093/cid/ciaa528. Online ahead of print.
15. Adamson PC, Pandori MW, Doernberg SB, et al; Antibacterial Resistance Leadership Group. **Analytical Evaluation of the Abbott RealTime CT/NG Assay for Detection of Chlamydia trachomatis and Neisseria gonorrhoeae in Rectal and Pharyngeal Swabs.** *J Mol Diagn.* 2020 Jun;22(6):811-816. doi: 10.1016/j.jmoldx.2020.03.004. Epub 2020 Apr.
16. Doernberg SB. **Will biomarkers be the answer for antibiotic stewardship?** *Lancet Respir Med.* 2020 Feb;8(2):130-132. doi: 10.1016/S2213-2600(19)30406-0. Epub 2019 Dec 3.
17. Doernberg SB, Komarow L, et al. **Simultaneous Evaluation of Diagnostic Assays for Pharyngeal and Rectal Neisseria gonorrhoeae and Chlamydia trachomatis Using a Master Protocol.** *Clin Infect Dis.* 2020 Dec 3;71(9):2314-2322. doi: 10.1093/cid/ciz1105.
18. Evans SR, Follmann D, Liu Y, Holland T, Doernberg SB, et al. **Sequential, Multiple-Assignment, Randomized Trials for COMparing Personalized Antibiotic StrategieS (SMART-COMPASS).** *Clin Infect Dis.* 2019 May 17;68(11):1961-1967. doi: 10.1093/cid/ciy912.
19. Pillinger K, Mercuro N, Jariwala R, et al. **Pharmacist Role in Antimicrobial Stewardship: A 30 Year Experience.** IDWeek Virtual Conference, October 2020
20. Nlandu Z, Piccicacco N, Zeitler K, Jariwala R, Montero J. **An Analysis of the Impact of Gastrointestinal Polymerase Chain Reaction Panel Use on Antimicrobial Use at a Tertiary Medical Center.** IDWeek Virtual Conference, October 2020
21. Hernandez J, Jariwala R, Piccicacco N, et al. **Tocilizumab: A Friend or A Foe In COVID Management.** IDWeek Virtual Conference, October 2020
22. Liberto N, Zeitler K, , Piccicacco N, Jariwala R, et al. **Anti-Infective Prescribing and Influenza Positive Results on Polymerase Chain Reaction Assay.** Florida Residency Virtual Symposium, May 2021.

# UC San Diego Medical Center Publications

1. Watanabe JH, Kwon J, Nan B, Abeles SR, Jia S, Mehta SR. **Medication Use Patterns in Hospitalized Patients With COVID-19 in California During the Pandemic.** *JAMA Netw Open.* 2021 May 3;4(5):e2110775. doi: 10.1001/jamanetworkopen.2021.10775
2. Keehner J, Horton LE, Pfeffer MA, Longhurst CA, Schooley RT, Currier JS, Abeles SR, Torriani FJ. **SARS-CoV-2 Infection after Vaccination in Health Care Workers in California.** *N Engl J Med.* 2021 May 6;384(18):1774-1775. doi: 10.1056/NEJMc2101927
3. Kang M, Torriani FJ, Sell RE, Wardi G, Abeles SR. **The Impact of an Inpatient Nurse-Triggered Sepsis Alert on Antimicrobial Utilization.** *Jt Comm J Qual Patient Saf.* 2021 Mar;47(3):157-164. doi: 10.1016/j.jcjq.2020.11.004
4. Kang M, Abeles SR, et al; UCSDH CDI task force. **The Effect of Clostridioides difficile Diagnostic Stewardship Interventions on the Diagnosis of Hospital-Onset Clostridioides difficile Infections.** *Jt Comm J Qual Patient Saf.* 2020 Aug;46(8):457-463. doi: 10.1016/j.jcjq.2020.05.004
5. Jenks JD, Aslam S, Horton LE, Law N, Bharti A, Logan C, Taremi M, Vaida F, Ritter M. **Early Monoclonal Antibody Administration Can Reduce Both Hospitalizations and Mortality in High-Risk Outpatients with COVID-19.** *Clin Infect Dis.* 2021 Jun 6:ciab522. doi: 10.1093/cid/ciab522
6. Prakash K, Ramirez-Sanchez C, Ramirez SI, Logan C, Law N, Mekeel K, Pretorius V, Aslam S. **Post-transplant survey to assess patient experiences with donor-derived HCV infection.** *Transpl Infect Dis.* 2020 Dec;22(6):e13402. doi: 10.1111/tid.13402
7. Cowman K, Guo Y, Pirofski L, Wong D, Hongkai Bao, Chen V et al. **Post-SARS-CoV-2 monoclonal antibody treatment hospitalizations as a sentinel for emergence of viral variants in New York City.** *Open Forum Infectious Diseases,* 2021; ofab313, <https://doi.org/10.1093/ofid/ofab313>
8. Trachuk P, Hemmige V, Eisenberg R, Cowman K, Chen V et al. **Evaluation of Clinical Outcomes after Introduction of a Dedicated Infectious Diseases-Critical Care Medicine Service in Critical Care Units,** *Open Forum Infectious Diseases,* 2021, ofab182, <https://doi.org/10.1093/ofid/ofab182>
9. Guo Y, Chen V, Bao H et al. **Antimicrobial Stewardship-driven Monoclonal Antibody Treatment Program for Covid-19 Patients in the Bronx, NY.** *SHEA Conference.* April 2021.
10. Nori P, Szymczak W, Puius Y, Sharma A, Cowman K, Gialanella P, Fleischner Z, Corpuz M, Torres-Isasiga J, Bartash R, Felsen U, Chen V, Guo Y. **Emerging Co-Pathogens: New Delhi Metallo-beta-lactamase producing Enterobacterales Infections in New York City COVID-19 Patients.** *Int J Antimicrob Agents.* 2020 Dec;56(6)
11. Punjabi C, Madaline T, Gendlina I, Chen V, et al. **Prevalence of MRSA in respiratory cultures and diagnostic performance of the MRSA nasal PCR in patients hospitalized with coronavirus disease 2019 (COVID-19) pneumonia.** *Infect Control Hosp Epidemiol.* 2020 Aug 26:1-2.
12. Nori P, Cowman K, Chen V, et al. **Bacterial and fungal coinfections in COVID-19 patients hospitalized during the New York City pandemic surge.** *Infect Control Hosp Epidemiol.* 2020 Jul 24:1-5
13. Cowman, K, Chen, V, Guo, Y et al. **Using Technology to Enhance Antimicrobial Stewardship Impact in the Acute Care Setting.** *Curr Treat Options Infect Dis.* 2020: 12, 145–157

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2. Davis MR, Thompson GR, Patterson TF. **Fungal infections potentiated by biologics.** *Infectious Disease Clinics of North America.* 2020;34(2):389-411.
3. Davis MR, Pham CU, Cies JJ. **Remdesivir and GS-441524 plasma concentrations in patients with end-stage renal disease on haemodialysis.** *J Antimicrob Chemotherapy.* 2021;76(3):822-825.
4. Davis MR, Nguyen M-VH, Gintjee TJ, Odermatt A, Young BY, Thompson GR. **Management of posaconazole-induced pseudohyperaldosteronism.** *J Antimicrob Chemotherapy.* 2020;75(12):3688-3693.
5. Davis MR, Chang S, Gaynor P, McCreary EK, Allyn P. **Isavuconazole for treatment of refractory coccidioid meningitis with concomitant cerebrospinal fluid and plasma therapeutic drug monitoring.** *Medical Mycology.* Published online June 18, 2021:myab035.
6. Nguyen M-VH, Davis MR, Wittenberg R, et al. **Posaconazole serum drug levels associated with pseudohyperaldosteronism.** *CID.* 2020;70(12): 2593-2598.
7. McCreary EK, Nguyen MH, Davis MR, et al. **Achievement of clinical isavuconazole blood concentrations in transplant recipients with isavuconazonium sulphate capsules administered via enteral feeding tube.** *Journal of Antimicrobial Chemotherapy.* 2020;75(10):3023-3028.
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10. Takada S, Ober AJ, Currier, JS, Goldstein NJ, Horwich TB, Mittman BS, Shu SB, Tseng CH, Vijayan T, Wali S, Cunningham WE, Ladapo JA. **Reducing cardiovascular risk among people living with HIV: Rationale and design of the Increasing Statin Prescribing in HIV Behavioral Economic Research (INSPIRE) randomized controlling trial.** *Prog Cardiovasc Dis* 2020 Feb 19.
11. Adamson, P, Goodman-Meza, D, Vijayan, T, Yang, Shangxin, Garner, Omai. **Diagnostic Yield of Repeat Testing for SARS-CoV-2: Experience from a Large Health System in Los Angeles.** *International Journal of Infectious Diseases.* Accepted, pending publication.
12. Vijayan T, Cortés-Penfield N, Harris C. **Tuskegee as a History Lesson, Tuskegee as Metaphor: Addressing Discrimination as a Social Determinant of Health in the Classroom.** *Open Forum Infect Dis.* 2020 Sep 28;7(10):ofaa458. doi: 10.1093/ofid/ofaa458.
13. Vijayan T, Shin M, Adamson PC, Harris C, Seeman T, Norris KC, Goodman-Meza D. **Beyond the 405 and the 5: Geographic variations and factors associated with SARS-CoV-2 positivity rates in Los Angeles County.** *Clin Infect Dis.* 2020 Nov 3:ciaa1692. doi: 10.1093/cid/ciaa1692. Epub ahead of print.
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15. Davar, K, Vijayan, T. **The PEST Approach to Choosing Antimicrobial Therapy.** *ID Week*, October, 2020
16. Davar, K, Vijayan, T. **Psitticosis meningitis.** Challenging Cases. *ID Week*, October 2020
17. Dora, A, Graber, C, Vijayan, T. **Works well enough? Program Directors' Perceptions of the Effectiveness and Transparency of Competency-Based Evaluations in Assessing Infectious Diseases Fellow Performance.** *ID Week*, October 2020
18. Vasishta, S, Graber, C, Vijayan, T. **Next-Generation Sequencing in Clinical Practice: A Survey of Infectious Disease Providers.** *ID week*, October 2020
19. Dieringer T, Pham CU, Goodman D. **Disseminated Adenovirus in Patient with Well Controlled HIV and ESRD.** Poster Presentation. *IDWeek 2020*, Virtual.
20. Baig S, Kaur I, Hanretty AH, Carey A. **Reduction of Fluconazole Use in ELBW Infants in a Level 4 NICU.** Virtual Poster Presentation, *Annual Research Day*, St. Christopher's Hospital for Children, Philadelphia, PA. May 2020.
21. Arthur N, Kaur I, Carey A. **Evaluation of the Applicability of the CDC Pediatric Ventilator-Associated Events (PedVAE) Surveillance Definition in the Neonatal Population. Oral Abstract Presentation.** *Eastern Society for Pediatric Research*, Philadelphia, PA. March 2021
22. Arthur N, Kaur I, Carey A. **Evaluation of the Applicability of the CDC Pediatric Ventilator-Associated Events (PedVAE) Surveillance Definition in the Neonatal Population.** Poster Presentation. *Pediatric Academic Societies (PAS) 2021 Virtual Meeting*. April 2021
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24. Araujo C, Pham C, Reis H, and Reis C. **Chapter 11.5: Non-nucleoside reverse transcriptase inhibitors.** In *Pharmacology in Clinical Neurosciences: A Quick Guide*. Edited by Hemanshu Prabhakar, Charu Mahajan, Indu Kapoor. Springer Singapore, 2020, pp. 589-610
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29. Vijayan T. **In the quiet of the holiday season, the City of Angels burns.** *BMJ Opinion* 2021 Jan. Url: <https://blogs.bmj.com/bmj/2021/01/05/tara-vijayan-in-the-quiet-of-the-holiday-season-the-city-of-angels-burns/>



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