From Lab Tech to Chief PA: Lessons in Leadership

Leah Hampson Yoke, PA-C, MCHS

Chief Physician Assistant, UW Medicine

Infectious Disease Consult Service, Vaccine and Infectious Disease Division Fred Hutch Cancer Research Center

Teaching Associate, Division of Allergy and Infectious Disease University of Washington School of Medicine

Clinical Faculty, MEDEX PA Training Program, Department of Family Medicine University of Washington School of Medicine

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No disclosures

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Goals and Aims

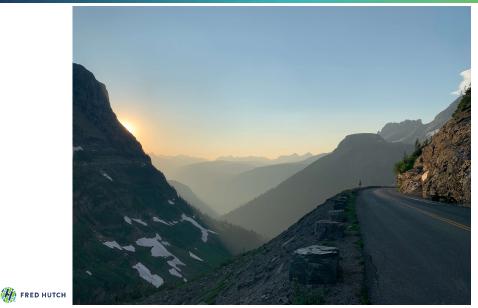
- Describe the role of Advanced Practices Providers (APPs) and leadership opportunities within the medical team.
- Explain the role of national organizations within a medical specialty and APP leadership opportunities within them.
- Describe opportunities within a hospital system for APP leadership.
- Discuss leadership skills, resources available, and the value of mentorship.



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The path to leadership



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Microbiology and Medical Laboratory Science



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A big move to Texas: Baylor Scott and White Hospital



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From bench to bedside



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PA School: MEDEX Program at UW



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Leadership Lesson #1

Imposter syndrome can be a real and debilitating. Find colleagues and mentors who help you see the truth.

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First ID consult: Harborview Medical Center



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Capstone: The Role of APPs in Infectious Disease



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First job!



(Not infectious disease...)



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Leadership Lesson #2:

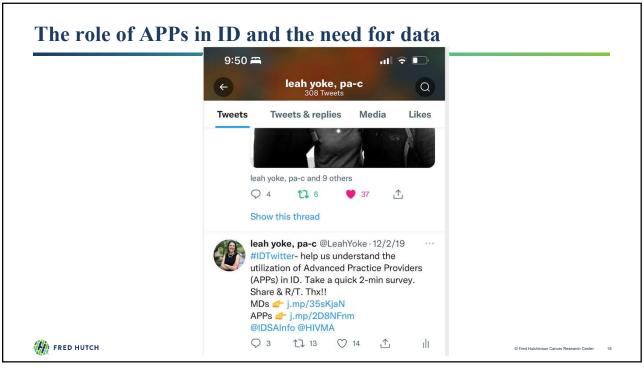
Your great idea may not work out the first time. Do not give up!

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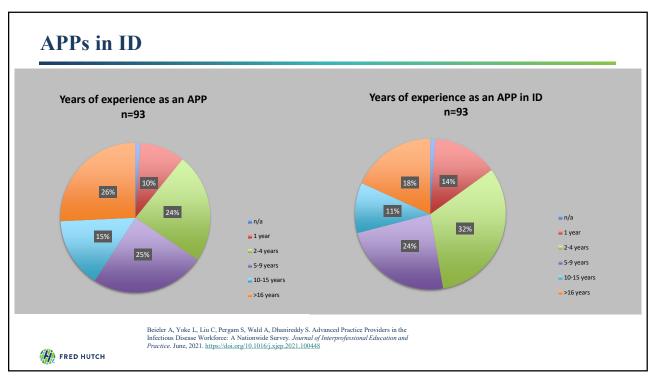


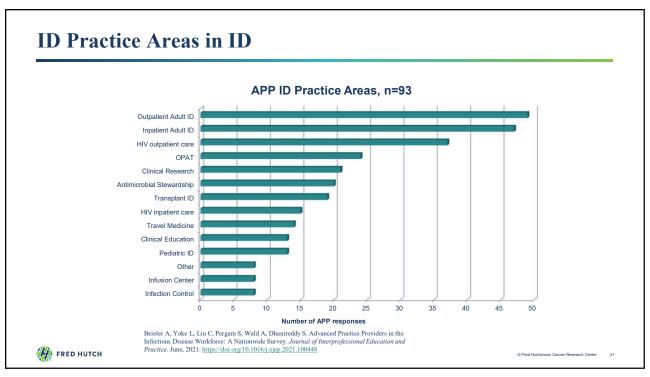
Survey

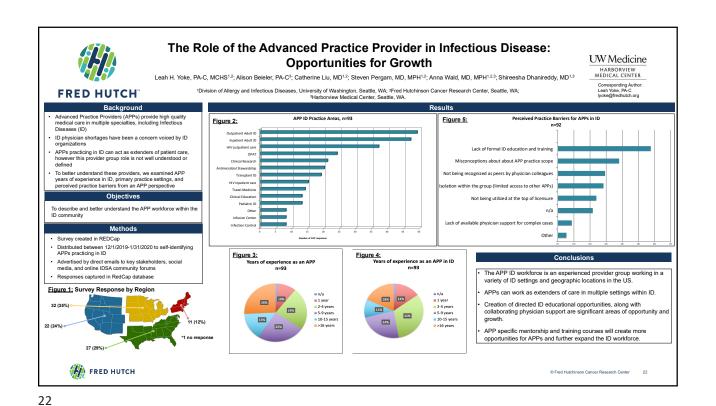
- Two surveys created in RedCap
 - ID Physician survey
 - ID APPs survey
- Distributed between 12/1/2019-1/31/2020
- Advertised by emails to key stakeholders, social media posts, and online community forums within IDSA
- 93 respondents nationwide for the APP survey; 218 respondents nationwide for the physician survey.



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Physician Perspective: Utilization of Advanced Practice Providers (APPs) in Infectious Disease UW Medicine Corresponding Author Alison Beieler PA-C Alison Beieler PA-C, ¹ Leah Yoke, PA-C, ²³ Steven Pergam MD, ²³ Anna Wald MD, ¹²³ Catherine Liu MD, ²³ Shireesha Dhanireddy MD ¹²

¹ Harborview Medical Center, Seattle, WA; ² Division of Allergy and Infectious Disease, University of Washington, Seattle, WA; ³ Fred Hutch Cancer Research Center, Seattle, WA HARBORVIEW MEDICAL CENTER Harborview Medical Center beielera@uw.edu FRED HUTCH RESULTS, n = 218 RESULTS, n = 142 (*no response, n = 76) BACKGROUND With recent shortfalls in applicants completing formal Infectious Disease (ID) fellowship programs, shortages of ID physicians is a challenge recognized by the clinical Physician Care Provided Inpatient Adult ID Outpatient Adult ID HIV Outpatient care HIV Inpatient care Clinical Education Antimicrobial Stewardship What are some reasons/concerns for not having APPs in your ID practice SURVEY RESPONSE BY REGION Physician Responses n (%) 185 (85%) 162 (74%) 152 (70%) Reported reasons/concerns for not having APPs n = 142 (%) No concerns 81 (57%) 137 (63%) 132 (61%) No standardized ID specific training 22 (15%) APPs clinical scope, roles, and opportunities for education are not well understood, including the number of practicing APPs working in ID. Practice has sufficient staffing 19 (13%) Antimicrobial Stew OPAT Clinical Research Infection Control Transplant ID Travel Medicine Infusion Center Pediatric ID 128 (59%) 111 (51%) Amount of time training would take 17 (12%) Loss of physician revenue 16 (11%) There is no formal training, guidance, or national education opportunities for APPs working in ID. 104 (48%) 83 (38%) 79 (36%) 38 (17%) 26 (12%) Not comfortable providing job training 12 (8%) Legal (malpractice) ramifications 11 (8%) We developed a physician survey to better understand Concerned about proper billing the APP workforce in ID, the perceived barriers to APP utilization, and educational opportunities. 10 (7%) Do not feel equipped to provide oversight 7 (5%) Do you currently work with an APP in your ID practice? METHODS Other reasons (Open End Responses) Knowledge gaps Design: Voluntary anonymous physician survey data
Site: United States, and other locations
Survey period: Dec 1, 2019 – Jan 31, 2020
Survey population:

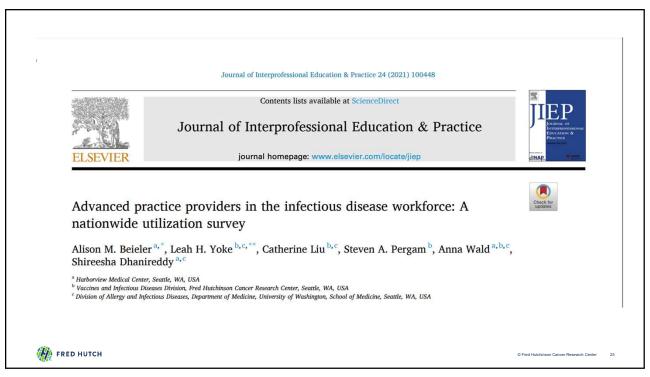
Infectious Disease physicians who completed formal ID Type of ID practice setting n = 218 (%) 6 (4%) University/Medical schoo Hospital/Clinic Private Practice Lack of funding 5 (4%) Lack of weekend/call coverage 80 (37%) 28 (13%) 4 (3%) Decision made by other administration 3 (2%) Federal Government Prefer not to answer 5 (2%) 1 (0%) In process of hiring APP Number of APPs the Physician works with raining
Physician survey links were distributed by social media, key
stakeholder emails, and IDSA online community forum.
Anonymous data were gathered via REDCap data collection
survey tool. 2 Below are the physician questions: DISCUSSION AND CONCLUSIONS Familiarity with APPs working in ID Results of 218 surveys demonstrate collaboration between ID physicians and APPs exists to meet current workforce needs. Are you an infectious Disease Attending, who has completed ID fellowship training? To what degree are you familiar with the utilization of APP's working ID? Do you currently work with an APP in your group or practice? If yes, how many? If no, what are zome reasons you don't have an APP in fin, what are zome reasons you don't have an APP in ■ Very 57% of Physicians reported no concerns with utilizing APPs in ID (n = 142). ■ Extremely Lack of APP ID specific training is a perceived concern/barrier to utilization of APPs. Opportunity exists for formal ID education and resource development both to enhance APPs clinical skills and address perceived knowledge gaps. Slightly your practice?
What services do you provide at your practice?
What is your primary practice setting?
What is your ID practice zip code? ■ Not at all Inclusion of APPs in the ID workforce may allow physicians to expand ID care into

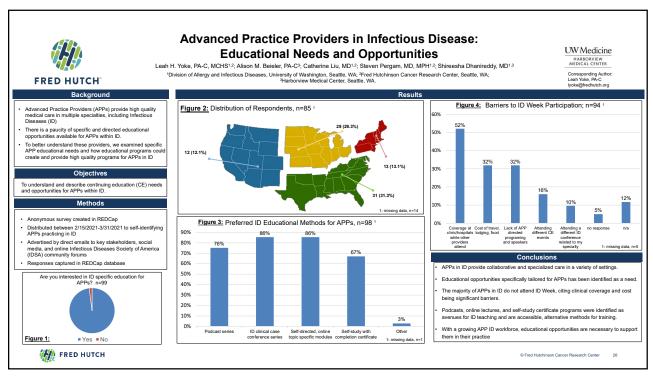
2 to 4 1 APP N/A 5 to 9 10 + No APPs APPs answer

more resource limited areas to continue to provide high quality patient care

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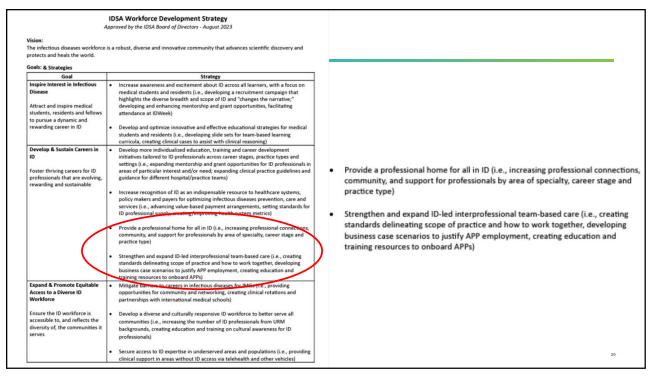






Featured in NEJM Journal Watch Guideline Watch 2023 (NEJM Journal Watch GENERAL MEDICINE SPECIALTIES TOPICS VOICES CME GUIDELINE WATCH Q MEETING REPORT I GENERAL MEDICINE. HOSPITAL MEDICINE. INFECTIOUS DISEASES October 17, 2023 STRENGTHENING OUR SPECIALTY THROUGH APP RECRUITMENT IDWeek 2023 Meeting Report - Highlights for (Leah H. Yoke, PA-C, Presentation 991) Hospitalists ID subspecialists provide essential care; however, two thirds of the U.S. population live in counties with no or below-average ID physician coverage. This workforce shortage was strained further by the COVID-19 pandemic and recent decline in ID fellowship applications. Advanced practice practitioners (APPs; i.e., Important presentations for generalists nurse practitioners and physician assistants) might help meet the need for ID services with prior studies IDWeek is a joint annual meeting of the Infectious Diseases Society of America and several other major organizations that focus on infectious diseases. Dr. Frances Ue, a general internist and hospitalist at describing models that integrate APPs into ID departments (e.g., J Oncol Pract 2010; 6: e31). In 2021, a national survey of ID physicians and APPs showed that perceived barriers to APPs practicing ID as a Cambridge Health Alliance and Harvard Medical School, attended this year's meeting from October 11 to 15 subspecialty included lack of formal ID education and training and misconceptions about APP practice in Boston, Massachusetts. Below are Dr. Ue's summaries of several presentations that are of particular relevance to general medicine hospitalists but also of potential interest to clinicians who practice scope (J Interprof Educ Pract 2021; 24:100448). Fifteen percent of ID physicians also cited lack of standardized ID-specific training for APPs as a concern. This new study highlights educational needs and ambulatory care. 🧱 FRED HUTCH

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Future work

- Development of educational opportunities for APPs in ID
- Mentorship for new APPs in ID
- Future directed CME and networking opportunities
- Virtual and "on the go" CME
- Goal of increasing attendance at IDWeek for APPs



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Leadership Lesson #3:

Ask a good question... and find the answer!

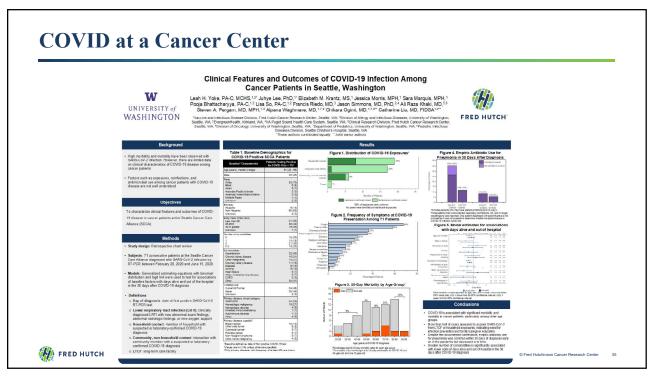
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COVID at a Cancer Center- in print!

Open Forum Infectious Diseases









Clinical and Virologic Characteristics and Outcomes of Coronavirus Disease 2019 at a Cancer Center

Leah H. Yoke, ^{2,23} Juhye M. Lee, ¹⁶ Elizabeth M. Krantz, ¹Jessica Morris, ¹Sara Marquis, ¹Pooja Bhattacharyya, ¹²Lisa So, ¹² Francis X. Riedo, ² Jason Simmons, ²⁸ Ali Ria Ra Kahi, ^{2,10} Guang-Shing Cheng, ²⁸ Alexander L. Greninger, ^{23,21} Steven A. Perpam, ²⁸ Alpana Waghmare, ^{23,21} Chikara Ogimi, ^{13,21,23} and Catherine Liu ^{23,22}

and Catherine Clus**

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Rospital, Seattle, Washington, USA, *Compression Diseases Division, Seattle, Dalidersh

Background. High morbidity and mortality have been observed in patients with cancer and coronavirus disease 2019 (COVID-

Background. High morbidity and mortality have been observed in patients with cancer and coronavirus disease 2019 (COVID19); however, there are limited data on antimicrobial use, coinfections, and viral shedding.

Methods. We conducted a retrospective cohort study of adult patients at the Seattle Cancer Care Alliance diagnosed with

COVID-19 between February 28, 2020 and June 15, 2020 to characterize antimicrobial use, coinfections, viral shedding, and outcomes within 30 days after diagnosis. Cycle threshold values were used as a proxy for viral load. We determined viral clearance,

defined as 2 consecutive negative results using severe acute respiratory syndrome coronavirus 2 reverse-transcription polymerase

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chain reaction results through July 30, 2020.

Results. Seventy-one patients were included with a median age of 61 years; 59% had a solid tumor. Only 3 patients had documented respiratory bacterial coinfection. Empiric antibiotics for pneumonia were prescribed more frequently early in the study period (February 29–Amerh 28, 2020; 1274) compared to the later period (March 29–June 15, 2020; 2750) (P = .002). The median number of days from symptom onset to viral clearance was 37 days with viral load rapidly declining in the first 7-10 days after symptom onset. Within 30 days of diagnosis, 29 (41%) patients were hospitalized and 12 (17%) died. Each additional comorbidity was associated with 45% lower odds of days alien and out of hospital in the month following diagnosis in adjusted most. Conclusions. Patients at a cancer center, particularly those with multiple comorbidities, are at increased risk of poor outcomes from COVID-19. Prolonged viral shedding is frequently observed among cancer patients, and its implications on transmission and treatment strategies warrant further study.

Keywords. antimicrobial use; cancer; clinical outcomes; COVID-19; viral shedding.

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Equitable Access to COVID19 Therapeutics



The Lancet Regional Health - Americas Available online 18 May 2022, 100263

In Press, Corrected Proof ②



A call to action: A need for initiatives that increase equitable access to COVID-19 therapeutics

Jacinda C. Abdul-Mutakabbi ^{a, b} < ⊠, Elizabeth B. Hirsch ^c, Caroline Ko ^d, Britny R. Brown ^e, Aiman Bandali f, Jason Mordino ^g, Leah H. Yoke ^{h, i}, Taison Bell ^j, Talia H. Swartz ^k, Uzma Syed ^l, Matifadza Hlatshwayo ^m, Ila M. Saunders n

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COVID treatment publications

Clinical Infectious Diseases

BRIEF REPORT

Successful Treatment of Prolonged, Severe Coronavirus Disease 2019 Lower Respiratory Tract Disease in a B cell Acute Lymphoblastic Leukemia Patient With an Extended Course of Remdesivir and Nirmatrelvir/Ritonavir

Emily S. Ford, ^{1,2,6} William Simmons, ¹ Ellora N. Karmarkar, ¹ Leah H. Yoke, ^{1,2} Ayodale B. Braimah, ¹ Johnaie J. Orozco, ¹ Cristina M. Chiuzeli, ^{1,6} Serona Barnhill, ² Coralyna L Sack, ¹ Joshua O. Bendiff, ² Pavita Roychoudhury, ^{2,6} Alexander L. Greninger, ^{2,6} Adrienne E. Shapiro, ^{1,2,5} Jennifer L. Hammond, ¹⁰ James M. Rusank, ^{2,6} Miscale Distanta, ³ Mickael Distanta, ³ Mickael Distanta, ³ Mickael Guang-Shing Cheng, ^{2,4,7} and Lawrence Corey, ^{2,4,8}

Open Forum Infectious Diseases

Successful Treatment of Persistent Symptomatic Coronavirus Disease 19 Infection With Extended-Duration Nirmatrelvir-Ritonavir Among Outpatients With Hematologic Cancer

Catherine Liu ^{1,2,0,0} Leah H. Yoke, ^{1,2} Pooja Bhattacharyya, ^{1,2} Ryan D. Cassaday, ^{2,4} Guang-Shing Cheng-^{3,2} Zahra Kassamali Escobar-^{1,6} Cristina Ghizzeli, ^{3,4} Denise J. McCulloth, ^{2,1,2} Steven A. Pergamu-^{2,2} Poutiva Roychoudhury, ^{1,2} Frank Tverdek, ^{1,4} Joshua T. Schiffter, ^{3,2,2} and Emily S. Ford ^{1,2}

Frank (verdee), "Joseana I. Schitter," and centry S. Peter Vaccine and Hericator Disease Division, 10th Hericator Canter Center, Seattle, Washington, USA, "Division of Allergy and Infectious Diseases, University of Washington, Seattle, Washington, USA, "Division of Hericator Diseases, University of Washington, Seattle, Washington, USA, "Division of Homosacy, University of Washington, Exertite, Washington, USA, "Division of Homosacy, University of Washington, Seattle, Washington, USA, "School of Plarmacy, University of Washington, Seattle, Washington, USA, and "Department of Laboratory Medicine, University of Washington, Seattle, Washington, USA, and "Department of Laboratory Medicine, University of Washington, Seattle, Washington, USA, and "Department of Laboratory Medicine, University of Washington, Seattle, Washington, Seattle, Washington, USA, and "Department of Laboratory Medicine, University of Washington, Seattle, Washington, USA, and "Department of Laboratory Medicine, University of Washington, Seattle, Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Department of Laboratory Medicine, University of Washington, USA, and "Depa



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UNIVERSITY of WASHINGTON

Clinical characteristics and outcomes of immunosuppressed patients treated with bebtelovimab for COVID-19 infection at an ambulatory cancer center



Eduardo Sanchez MD^{1,2}, Elizabeth Krantz MS², Leah Yoke PA-C^{1,2}, Molly Gallaher^a, Pooja Bhattacharyya PA-C^{1,2}, Lisa So PA-C^{1,2}, Zahra Escobar PharmD³, Frank Tverdek PharmD BCPSAG-ID³, Emily Rosen MD¹, Z Guinni^{*}, Michelle Swetty, MPH³, Salma Walji BSeN, RN, MPA³, Marle Wilson MSN, RN³, Brittarny McCreery MD, MBA³, Denise McCludoch MD, MPH³, Sueve Pergan MD, MPH³, Catherine Lu MD³².

¹Division of Allergy and Infectious Diseases, University of Washington, Seattle, WA. ²Fred Hutchinson Cancer Research Center, Seattle, WA

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Leadership Lesson #4

Show up, be present, and take calculated risks.

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Chief PA at UW Medicine

- Positions created about 20 years ago to help advocate and lead the APP groups across the enterprise (now including Northwest Hospital, UW Medical Center, and the UW clinics)
- Represent APPs on the Medical Leadership Meetings, the Medical Staff Administrative Committee, and other enterprise -wide committees
- Sign all credentialing files for APPs to ensure safety and compliance
- Advocate for the needs of the over 800 APPs across the enterprise.



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September, 2020

- COVID
- EMR transfer from Cerner to EPIC
- Budget shortfalls
- Burnt out providers

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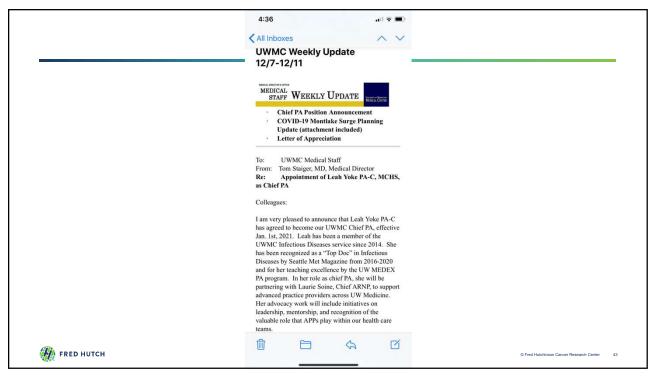
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Leadership Lesson #5

If you have an opportunity, take it. It might not come back again.



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First things first-make a survey!

- After a year of difficulty and concern for burn-out, a survey was developed to better assess the state of our APPs
- Survey open May 19, 2021- July 15, 2021
- 158 (25%) APP survey respondents from a variety of specialties across the enterprise

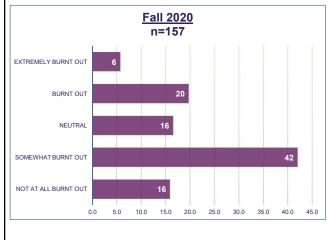


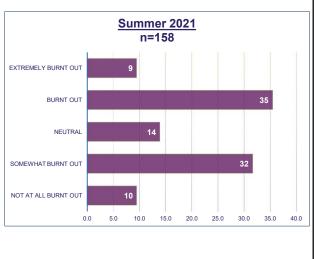
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Wellness and burnout across UW Medicine I currently feel the following: EMOTIONALLY EXHAUSTED AT WORK LACKING IN ENTHUSIASM AT WORK PHYSICALLY EXHAUSTED AT WORK A SENSE OF DREAD WHEN I THINK ABOUT THE WORK I HAVE TO DO LESS CONNECTED WITH MY COLLEAGUES OVER THE LAST 12 MONTHS LESS EMPATHETIC WITH MY PATIENTS OVER THE LAST 12 MONTHS LESS EMPATHETIC WITH MY COLLEAGUES OVER THE LAST 12 MONTHS LESS CONNECTED WITH MY PATIENTS OVER THE LAST 12 MONTHS LESS SENSITIVE TO THE FEELINGS OR EMOTIONS OF OTHERS OVER THE LAST 12 MONTHS LESS INTERESTED IN TALKING WITH MY PATIENTS OVER THE LAST 12 MONTHS 0.0 30.0 50.0 60.0 70.0 🧰 FRED HUTCH

Burn-out trajectory





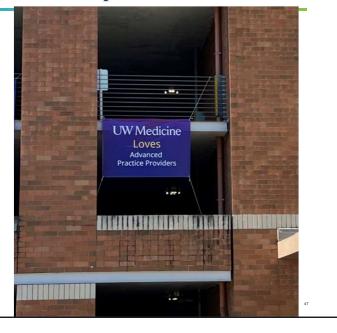
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The response of UW Medicine Leadership

- Developed a salary equity task force and salary adjustments
- Appointed an APP Task Force to create standards on appropriate use of APPs, staffing, onboarding, recruitment, and ultimately building clinical teams using APPs
- Provided funds for an APP Week





Leadership Lesson #6

Understand the needs of your group and make a plan for action.



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Current work across UW Medicine

- APP Task Force
- Salary equity and promotional pathway development
- Collaboration between our physician colleagues and APPs
- Managing continued repercussions from the pandemic response

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The practicalities...

- Show up to the meetings.
- Get involved.
- Respond to emails.
- Join Twitter (now X).
- Don't be afraid to speak up.
- Surround yourself with mentors and wise colleagues.
- Do what you love.



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Acknowledgements

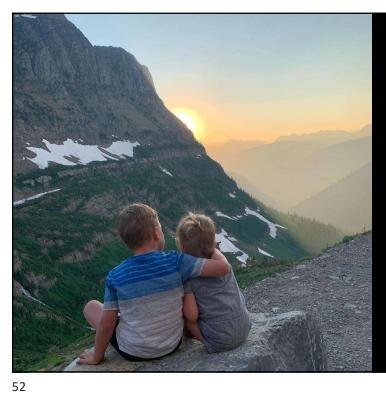
- Gabrielle Zecha, PA-C
- Alison Beieler, PA-C
- Catherine Liu, MD
- Steve Pergam, MD
- Shireesha Dhanireddy, MD
- Frank Tverdek, PharmD
- Rupali Jain, PharmD
- Thomas Staiger, MD
- Santiago Neme, MD

- Thomas Purcell, MD
- Anna Wald, MD
- Laurie Soine, ARNP, PhD
- Jeannine Sanford, ARNP

All my colleagues who continue to inspire me with their hard work and dedication.

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Questions?

Leah Hampson Yoke lyoke@fredhutch.org

Twitter: @LeahYoke

