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PROFESSIONAL EMPLOYMENTS

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|----------------------------|---|
| August 2016 – Present | University of Florida, Gainesville, FL
Assistant Professor (Tenure-Track), Department of Health Services Research, Management and Policy, College of Public Health and Health Professions |
| August 2016 – Present | University of Florida, Gainesville, FL
Member, University of Florida Health Cancer Center |
| July 2014 – July 2016 | University of Texas MD Anderson Cancer Center, Houston, TX
Janice Davis Gordon Memorial Postdoctoral Fellow in Clinical Decision Science, Cancer Prevention Research Training Program and Department of Health Services Research |
| March 2013 – July 2014 | University of Texas MD Anderson Cancer Center, Houston, TX
Graduate Research Assistant, Department of Health Services Research |
| December 2011 – March 2013 | University of Texas MD Anderson Cancer Center, Houston, TX
Graduate Research Assistant, Department of Biostatistics |

EDUCATION

Post-Graduation Training

Janice Davis Gordon Memorial Postdoctoral Fellow in Clinical Decision Science, Cancer Prevention Research Training Program and Department of Health Services Research, The University of Texas MD Anderson Cancer Center – 2016

Degree-Granting Education

Ph.D., Public Health / Health Economics, The University of Texas Health Science Center (UTHSC) School of Public Health – 2014

M.P.H., Health Policy and Management, Texas A&M Health Science Center School of Public Health – 2010

B.S., Pharmacy, Mahatma Gandhi Vidyamandir’s Pharmacy College, Nashik, India – 2007

HONORS AND AWARDS

- Outstanding Postdoctoral Trainee in Cancer Prevention for 2016, The University of Texas MD Anderson Cancer Center

- The Thomas H. and Mayme P. Scott Endowed Fellowship in Cancer Research for 2016, The University of Texas MD Anderson Cancer Center
- Winner, Lee B. Lusted moderated poster session, The 37th Annual Meeting of the Society for Medical Decision Making, St. Luis, MO, 2015 (Topic: Value of addition of HPV vaccination to anal precancerous lesion treatment in older MSM—do we need further evidence?)
- Finalist, Lee B. Lusted moderated poster session, The 37th Annual Meeting of the Society for Medical Decision Making, St. Louis, MO, 2015 (Topic: Adjuvant HPV vaccination in older HIV-positive men who have sex with men for prevention of anal cancer—long-term clinical and economic benefits)
- Finalist, Lee B. Lusted moderated poster session, The 36th Annual Meeting of the Society for Medical Decision Making, Miami, FL, 2014 (Topic: Clinical effectiveness and cost-effectiveness of quadrivalent human papillomavirus vaccination in HIV-negative men who have sex with men to prevent recurrent high-grade anal intraepithelial neoplasia)
- Second prize, ISPOR Quiz Competition, ISPOR 18th Annual International Meeting, New Orleans, LA, 2013
- Competitive academic scholarship 2011-12, The University of Texas School of Public Health, Houston, TX, 2011
- Fred W. Dollar competitive academic scholarship 2009-10, Texas A&M University, College Station, TX, 2010

PEER-REVIEWED PUBLICATIONS

1. **Deshmukh AA**, Cantor SB, Fenwick E, Chiao EY, Nyitray AG, Stier EA, Goldstone SE, Wilkin T, Chhatwal J. Adjuvant HPV vaccination for anal cancer prevention in HIV-positive men who have sex with men: The time is now. *Vaccine*. 2017. *In press*.
2. **Deshmukh AA**, Chiao EY, Cantor SB, Stier EA, Goldstone SE, Nyitray AG, Wilkin T, Wang X, Chhatwal J. Management of precancerous anal intraepithelial lesions in HIV-positive MSM: clinical and cost-effectiveness. *Cancer*. 2017. *In press*.
3. **Deshmukh AA**, Shirvani S, Lal L, Swint JM, Cantor SB, Smith B, Likhacheva A. Cost-effectiveness analysis comparing conventional, hypofractionated, and intraoperative radiotherapy for early-stage breast cancer. *J Natl Cancer Inst*. 2017. *In press*.
4. **Deshmukh AA**, Tanner RJ, Luetke MC, Hong Y, Sonawane Deshmukh K, Mainous III AG. Prevalence and risk of penile HPV infection: Evidence from The National Health and Nutrition Examination Survey 2013-14. *Clin Infect Dis*. 2017; 64 (10):1360-1366.
5. **Deshmukh AA**, Zhao H, Das P, Chiao EY, You YN, Franzini L, Lairson DR, Swartz MD, Giordano SH, Cantor SB. Clinical and economic evaluation of treatment strategies for T1N0 anal canal cancer. *Am J Clin Oncol*. 2016. [Equb ahead of print] [PMID: 27755059]
6. **Deshmukh AA**, Chhatwal J, Chiao EY, Nyitray AG, Das P, Cantor SB. Long-Term outcomes of adding HPV vaccine to the anal intraepithelial neoplasia treatment regimen in HIV-positive men who have sex with men. *Clin Infect Dis*. 2015; 61(10): 1527-35 [PMID: 26223993]

7. **Deshmukh AA**, Zhao H, Franzini L, Lairson D, Chiao EY, Swartz MD, Das P, Giordano S, Cantor SB. Total lifetime and cancer-related costs for elderly patients diagnosed with anal cancer in the United States. *Am J Clin Oncol*. 2015; [Epub ahead of print] [PMID: 26523440]
8. Cantor SB, **Deshmukh AA**, Luca NS, Nogueras Gonzalez GM, Prokhorov AV. Cost-effectiveness analysis of smoking cessation training of physicians and pharmacists. 2015. *Addictive Behaviors*. DOI:10.1016/j.addbeh.2015.01.004. [PMID: 25644592]
9. Chen A, Jacobsen KH, **Deshmukh AA**, Cantor SB. The evolution of disability-adjusted life year (DALY). 2015. *Socio-Economic Planning Sciences* DOI: 10.1016/j.seps.2015.12.002
10. **Deshmukh AA**, Chiao EY, Das P, Cantor SB. Cost-effectiveness analysis of vaccinating HIV-negative men who have sex with men in prevention of recurrent high-grade anal intraepithelial neoplasia. 2014. *Vaccine*, 32: 6941–6947. [PMID: 25444820]
11. Chen A, **Deshmukh AA**, Richards-Kortum R, Molyneaux E, Kawaza K, Cantor SB. Cost-effectiveness of a neonatal bubble CPAP device in Malawi. 2014. *BMC Pediatrics*. DOI:10.1186/s12887-014-0288-1. [PMID: 25421903]
12. **Deshmukh AA**, Cantor SB, Crosby MA, Shen Y, Wenli D, Bedrosian I, Peterson SK, Parker PA, Brewster AM. Cost of contralateral prophylactic mastectomy. 2014. *Ann Surg Oncol*. DOI 10.1245/s10434-014-3759-6. [PMID: 24809301]
13. Lairson D, DiCarlo M, **Deshmukh AA**, Bittner-Fagan H, Sifri R, Katurakes N, Cocroft J, Andrel J, Swan H, Vernon SW, Myers RE. Cost-effectiveness of standard vs. a navigated intervention on colorectal cancer screening use in primary care. 2014. *Cancer*. DOI: 10.1002/cncr.28535. [PMID: 24435411]
14. Cantor SB, **Deshmukh AA**, Krahn MD, Volk RJ. Use of forecasted assessment of quality of life to validate time-tradeoff utilities and a prostate cancer screening decision-analytic model. 2013. *Health Expect*. DOI: 10.1111/hex.12150 [PMID: 26039695]
15. Kash B, **Deshmukh AA**. Developing a strategic marketing plan for physical and occupational therapy services: A collaborative project between a critical access hospital and a graduate program in healthcare management. *Health Marketing Quarterly*, 30:263–280, 2013. [PMID: 23924224]
16. Begley C, **Deshmukh AA**, Eschbach K, Fouladi N, Liu QJ, Reynolds T. Health insurance coverage in the Houston-Galveston area under the Patient Protection and Affordable Care Act. *Tex Med*. 2012; 108(11):e1. [PMID: 23117876]

MANUSCRIPTS UNDER REVIEW

1. **Deshmukh AA**, Shirvani SM, Likhacheva A, Chhatwal J, Chiao EY, Sonawane Deshmukh K. Quality of Dietary intake of US adults diagnosed with cancer and cancer-specific mortality, NHANES III.
2. Sonawane Deshmukh K, Suk R, Chiao EY, Chhatwal J, Wilkin T, Nyitray AG, Sikora A, **Deshmukh AA**. Gender difference in prevalence of Oral HPV and it's concordance with genital HPV infection, NHANES 2011-2014

3. Sonawane Deshmukh K, **Deshmukh AA**, Segal MS. Antihypertensive Therapy, Pulse Pressure, and Stroke: Analysis of the SPRINT-POP Data.
4. Chung TH, **Deshmukh AA**, Lairson DR, Champion VL. A Budget Impact Model for a Web-based Program to increase Colorectal Cancer Screening
5. Hong YR, Sonawane Deshmukh K, Holcombe D, Chen G, **Deshmukh AA**. Impact of Multimodal Educational Information Delivery for Diabetes Care on Colorectal Cancer Screening Uptake Among Individuals with Type 2 Diabetes

NEWSLETTER

1. **Deshmukh AA**, Likhacheva A. Why treating breast cancer with less may be more. *The conversation*. June 15, 2017. URL: <https://theconversation.com/why-treating-breast-cancer-with-less-may-be-more-78514>

PODCAST

1. **Deshmukh AA**, Likhacheva A. *Journal of the National Cancer Institutes*. June 2017. Cost-Effectiveness Analysis Comparing Conventional, Hypofractionated, and Intraoperative Radiotherapy for Early-Stage Breast Cancer. URL: <https://academic.oup.com/jnci/pages/podcasts>

SELECTED PRESENTATIONS AND ABSTRACTS

1. Suk R, Chen Q, Sikora A, **Deshmukh AA**. Predicting the impact of continued tobacco use among head and neck cancer patients among US. To be presented at The 39th Annual Meeting of the Society for Medical Decision Making, October 2017, Pittsburgh, PA. (Nominated as Finalist for the Lee B. Lusted moderated poster session)
2. **Deshmukh AA**, Suk R, Sahgal A, Neupane B, Chang E, Brown P, Likhacheva A. Determining age-specific optimal management for patients diagnosed with 1 to 4 brain metastases. To be presented at The 39th Annual Meeting of the Society for Medical Decision Making, October 2017, Pittsburgh, PA
3. Hong YR, Holcombe D, Sonawane Deshmukh K, **Deshmukh AA**. Determination of uptake and barriers to colorectal cancer screening among diabetic patients. Academy Health Annual Research Meeting. June 2017. New Orleans, LA
4. Pattisapu P, Chelius DC, **Deshmukh AA**, Mehta DK. Tonsillectomy vs. Tonsillotomy: A Cost-Effectiveness Analysis. 2017 American Society of Pediatric Otolaryngology Annual Meeting, May 2017, Austin, TX
5. **Deshmukh AA**, Chiao EY*, Cantor SB, Stier EA, Goldstone SE, Nyitray AG, Wilkin T, Wang X, Chhatwal J. Optimal management of anal precursor in HIV-positive MSM: a clinical and cost-effectiveness analysis. The 31st International Papillomavirus Conference, February 2017, Cape Town, South Africa

6. **Deshmukh AA**, Stier EA, Lensing S, Wiley D, Cantor SB, Palefsky JM, Chiao* EY. Age-specific prevalence of anal and cervical HPV, and anal cytology and histology in HIV-positive women. The 31st International Papillomavirus Conference, February 2017, Cape Town, South Africa
7. Wiley D, Chiao EY, Lee J, **Deshmukh AA**, Cantor SB, Palefsky J, Stier EA, Multiple-test anal HSIL screening strategies improve detection in HIV+ women. The 31st International Papillomavirus Conference, February 2017, Cape Town, South Africa
8. Wiley D, Chiao EY, Lee J, **Deshmukh AA**, Cantor SB, Palefsky J, Stier EA, Multiple-test screening strategies improve biopsy-proven HSIL-detection in HIV+ women. The 2017 Conference on Retroviruses and Opportunistic Infections (CROI), February 2017, Seattle, Washington
9. **Deshmukh AA**, Stier EA, Lensing S, Wiley D, Cantor SB, Palefsky JM, Chiao EY. Age-specific prevalence of anal and cervical HPV, and anal cytology and histology in HIV-positive women. International Anal Neoplasia Society scientific meeting, November 2016, San Francisco, CA
10. Wiley D, Chiao EY, Lee J, **Deshmukh AA**, Cantor SB, Palefsky J, Stier EA, Multiple-test anal HSIL screening strategies improve detection in HIV+ women. International Anal Neoplasia Society scientific meeting, November 2016, San Francisco, CA
11. Sonawane K, Silver N, **Deshmukh AA**. Healthy eating and likelihood of cancer-specific mortality in the US. UF Health Cancer Center Research day, November 2016, Gainesville, FL
12. **Deshmukh AA**, Cantor SB, Fenwick E, Chiao EY, Nyitray AG, Stier EA, Goldstone SE, Wilkin T, Chhatwal J. Value of future research on anal precursor management in HIV-positive men who have sex with men. UF Health Cancer Center Research day, November 2016, Gainesville, FL
13. **Deshmukh AA**, Cantor SB, Fenwick E, Chiao EY, Nyitray AG, Das P, Chhatwal J. Value of addition of HPV vaccination to anal precancerous lesion treatment in older MSM—do we need further evidence? The 37th Annual Meeting of the Society for Medical Decision Making, October 2015, St. Louis, MO (Winner, Lee B. Lusted moderated poster session)
14. **Deshmukh AA**, Chhatwal J, Chiao EY, Nyitray AG, Das P, Cantor SB. Adjuvant HPV vaccination in older HIV-positive men who have sex with men for prevention of anal cancer—long-term clinical and economic benefits. The 37th Annual Meeting of the Society for Medical Decision Making, October 2015, St. Louis, MO (Nominated as the Finalist for Lee B. Lusted moderated poster session)
15. **Deshmukh AA**, Cantor SB, Fenwick E, Chiao EY, Nyitray AG, Das P, Chhatwal J. HPV Vaccination of Men Who Have Sex with Men who are 27 Years or Older after Treatment for High-Grade Anal Lesion: Future Research Prioritization. ISPOR 20th Annual International Meeting, May 2015, Philadelphia, PA
16. **Deshmukh AA**, Chhatwal J, Chiao EY, Nyitray AG, Das P, Cantor SB. Long-Term Value of Adding HPV Vaccine to the High-Grade Anal Intraepithelial Neoplasia Treatment Regimen in HIV-positive Men who have Sex with Men. ISPOR 20th Annual International Meeting, May 2015, Philadelphia, PA
17. **Deshmukh AA**, Chiao EY, Das P, Cantor SB. Clinical effectiveness and cost-effectiveness of quadrivalent human papillomavirus vaccination in HIV-negative men who have sex with men to prevent recurrent high-grade anal intraepithelial neoplasia. 2014. The 36th Annual Meeting of

the Society for Medical Decision Making, October 2014, Miami, FL (Nominated as Finalist for the Lee B. Lusted moderated poster session)

18. Chung TH, **Deshmukh AA**, Lairson D, Champion V. A budget impact model for a program to increase colorectal cancer screening. 2014. The 36th Annual Meeting of the Society for Medical Decision Making, Miami, FL
19. Cantor SB, **Deshmukh AA**, Krahn MD, Volk RJ. 2013. Importance, anticipated burden, and function: validity of utilities for impotence and urinary incontinence. 2013. ISPOR 18th Annual International Meeting, New Orleans, LA
20. **Deshmukh AA**, Chen A, Sonawane KB, Cantor SB. The Use of DALYs and QALYs in Outcomes Analysis. 2013. ISPOR 18th Annual International Meeting, New Orleans, LA
21. Begley C, **Deshmukh AA**, Eschbach K, Fouladi N, Liu J, Reynolds T. 2012. Impact of the Patient Protection and Affordable Care Act on Coverage. The 12th Annual Kelsey Research Foundation Health Services and Outcome Research Conference, Houston, TX

SEMINARS, INVITED TALKS, AND PROFESSIONAL PRESENTATIONS

- 2017 Invited talk, Baylor College of Medicine—Joint Head and Neck Cancer/ Gynecology Disease-oriented Working Group Meeting—Houston, TX (Topic: Using Decision Science to Determine Optimal Prevention and Treatment for HPV-related Cancers)
- 2017 Invited talk, Moffitt Cancer Center for Infectious Research in Cancer. Moffitt Cancer Center, Tampa, FL (Topic: Using Mathematical Modeling to Determine Optimal Cancer Prevention and Treatment Strategies)
- 2017 Invited talk, Keep Calm and Discuss Research series. College of Public Health & Health Professions, University of Florida, Gainesville, FL (Topic: Explore research collaborations around econometrics.)
- 2016 Invited Oral Abstract, International Anal Neoplasia Society scientific meeting, November 2016, San Francisco, CA (Topic: Age-specific prevalence of anal and cervical HPV, and anal cytology and histology in HIV-positive women.)
- 2016 Invited Oral Abstract, International Anal Neoplasia Society scientific meeting, November 2016, San Francisco, CA (Topic: Management of anal precursor in HIV infected men who have sex with men: A cost-effectiveness analysis.)
- 2016 UF Health Cancer Center Oncology Grand Rounds, Gainesville, FL (Topic: Modeling Cancer Outcomes: Applications from Anal Cancer Prevention and Breast Cancer Control)
- 2016 Panel discussion, UT MD Anderson Cancer Center, Houston, TX (Topic: Networking and Sponsorship.)
- 2016 Seminar, Trainee Brown Bag, UT MD Anderson Cancer Center, Houston, TX (Topic: Comparative Effectiveness of Anal Precancer Management Strategies Using Decision Analysis Methods)

- 2016 Invited talk, HPV OAG working group, UT MD Anderson Cancer Center, Houston, TX (Topic: Comparative Effectiveness of Anal Precancer Management Strategies Using Decision Analysis Methods)
- 2016 Invited talk, University of Houston College of Pharmacy, Houston, TX (Topic: Methods for Economic Evaluation using Person-Level Data)
- 2016 Invited talk, University of South Carolina (Topic: Prevention of Anal Cancer in High-risk Populations in the US: Seeking Policy Attention)
- 2015 Invited talk, University of Houston College of Pharmacy (Topic: Methods for Decision Analysis)
- 2015 Invited talk, University of Florida College of Public Health and Health Professions (Topic: Prevention of Anal Cancer through HPV Vaccination in Men Who Have Sex with Men Older Than 27 Years: Do We Need More Evidence?)
- 2015 Invited talk, Western Michigan University Homer Stryker M.D. School of Medicine, Kalamazoo (Topic: Prevention of Anal Cancer through HPV Vaccination in Men Who Have Sex with Men Older Than 27 Years: Do We Need More Evidence?)
- 2015 Professional presentation, The 37th Annual Meeting of the Society for Medical Decision Making, St. Louis, MO (Topic: Value of addition of HPV vaccination to anal precancerous lesion treatment in older MSM—do we need further evidence?)
- 2015 Seminar, Trainee Brown Bag, UT MD Anderson Cancer Center. (Topic: Prevention of Anal Cancer through HPV Vaccination in MSM Older Than 27 Years: Do We Need More Evidence?)
- 2015 Seminar, University of Texas MD Anderson Cancer Center, Houston, TX (Topic: Long-term benefits of adjuvant HPV vaccination among 27-years or older MSM)

FUNDING

ONGOING RESEARCH SUPPORT

NIH/NCI R01 (Subcontract from Baylor College of Medicine) 08/2011 - 07/2017

PI: Chiao

Role: Co-I

The effectiveness of screening HIV-infected women for anal cancer precursors

Project narrative: The goal of this study is to provide the necessary information to make policy guidelines for screening for anal cancer in HIV-infected women as well as better characterizing the progression of HPV infection and high-grade anal intraepithelial neoplasia in HIV-infected women in the HAART era.

HRSA

10/2016 – 09/2017

PI: Schentrup

Role: Co-I

Interprofessional Collaborative Practice at Archer Family Health Care

Project narrative: To perform economic evaluation of Interprofessional Collaborative Practice (IPCP)

PAST RESEARCH SUPPORT

Janice Davis Gordon Memorial Postdoctoral Fellowship (\$100,000) 08/2014 – 07/2016
The University of Texas MD Anderson Cancer Center, Houston TX
Role: PI
Evaluation of optimal management for anal cancer

The Thomas H. and Mayme P. Scott Endowed Fellowship in Cancer Research for 2016 (\$3,000)
The University of Texas MD Anderson Cancer Center

TEACHING

Within Current Institution

Advance Health Economics, Department of Health Services Research, Management and Policy, College of Public Health & Health Professions, University of Florida, Spring 2017

Health Economics, Department of Health Services Research, Management and Policy, College of Public Health & Health Professions, University of Florida, Spring 2017

Journal Club, Department of Health Services Research, Management and Policy, College of Public Health and Health Professions, University of Florida, Fall 2016

Outside Current Institution

Guest lecture, PH 3915 Methods for Economic Evaluation

Advanced methods to address uncertainty when handling patient-level data in cost-effectiveness analysis (*Fall 2012, Fall 2013*)

Budget impact analysis (*Fall 2012, Fall 2013, Fall 2014, Fall 2015*)

Midterm exam review (*Fall 2012, Fall 2013, Fall 2014, Fall 2015*)

Guest lecture, PH 3920 Health Services Delivery and Performance (Spring 2013)

Applied cost-effectiveness analysis using TreeAge (decision-analytic software)

Decision making and cost-effectiveness analysis in health care

STUDENT MENTORING

Doctoral students

Ryan Suk, MS, University of Florida

Young-Rock Hong, MPH, University of Florida

Ara Jo, MS, University of Florida (Topic: Weight Loss to a Healthy Body Mass Index Target and the First Event of Coronary Heart Disease and Mortality)

Co-mentored research of Tong Han Chung, PhD, MPH, University of Texas School of Public Health; Project: Development of a budget impact model for a web-based program to increase colorectal cancer screening

Master's student

Karen Restrepo
Abhishek Giri
Ryan McGuire

INSTITUTIONAL COMMITTEE ACTIVITIES

Co-chair, Speaker Workgroup, UF Health Cancer Center Population Sciences 2017

Chair, Review Committee, 2016 Outstanding Mentor in Cancer Prevention Award, Division of Cancer Prevention and Population Sciences, The University of Texas MD Anderson Cancer Center, Houston, TX

Reviewer, 2015 Outstanding Mentor in Cancer Prevention Award, Division of Cancer Prevention and Population Sciences, The University of Texas MD Anderson Cancer Center, Houston, TX

Reviewer, 2015 Student Elevator Speech Competition, Division of Cancer Prevention and Population Sciences, The University of Texas MD Anderson Cancer Center, Houston, TX

PROFESSIONAL SERVICES

- Member, International Anal Neoplasia Society (IANS), 2016 – present
- Member, International Papillomavirus Society (IPV), 2016 – present
- Member, International Society of Pharmacoeconomics and Outcomes Research (ISPOR), 2011 – present
- Member, Society for Medical Decision Making (SMDM), 2013 – present
- Member, UTHSC School of Public Health ISPOR student chapter, 2010 – 2014

Editor

- Journal of Oncology Research
- Archives of Health Sciences

Reviewer

- Annals of Internal Medicine
- Journal of the National Cancer Institute
- Clinical Infectious Diseases
- Vaccine
- Clinical Therapeutics
- Value in Health
- Epidemiology and Infection
- BMC Cancer
- Cancer
- Health Expectations
- International Journal of Health Policy and Management
- Evaluation and Program Planning

SELECTED MEDIA COVERAGE

2017 US News and World Report, Medical press, Business Standard, ASCO Post, Billings Gazette, News from the Association of American Cancer Institutes (June 2017 Newsletter)

2015 The Huffington Post

July 2017