

Omayma Alshaarawy, M.B.B.S, Ph.D.

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Current Position

College of Human Medicine, Michigan State University, East Lansing, MI
Assistant Professor (tenure-track) Department of Family Medicine
Adjunct Faculty Department of Epidemiology and Biostatistics

Education

Ph.D. in Public Health Sciences – Epidemiology, School of Public Health, West Virginia University 2013

M.B.B.S, School of Medicine, Cairo University, Egypt 2006

Appointments

Research Associate 2016-2018
Department of Epidemiology and Biostatistics
Michigan State University, East Lansing, MI

Visiting Scholar 2015-2016
Department of Epidemiology and Biostatistics
Indiana University, Bloomington, IN

Postdoctoral fellow 2013-2015
Department of Epidemiology and Biostatistics
Michigan State University, East Lansing, MI

Research Assistant 2010-2013
Department of Epidemiology
West Virginia University, Morgantown, WV

Resident of Clinical pathology 2008-2010
Almounira General Hospital, Cairo, Egypt

House Officer 2007-2008
Cairo university Hospitals, Cairo, Egypt

Professional Memberships

College on Problems of Drug Dependence (Member) 2013-present

American Diabetes Association (Member) 2012-present

Committee Assignments

Michigan State University College of Human Medicine

RPT committee	2023-present
Dean's Advisory Committee on Diversity	2023-present
Grade Appeal committee	2023-present
Student Grievance/Complaint Hearing Panel	2022-2023
Student Competence committee	
Member	2019-present
Chair of subgroup 3	2020-2021

Michigan State University Department of Family Medicine

Chair of 1964 Faculty Search committee	2023-present
Implementation Science Search committee	2022-present
RPT committee	2021-present
Leadership committee	2019, 2023
Research committee	
Member	2018-present
Vice-chair	2021-2022
Chair	2022-2023

College on Problems of Drug Dependence

Awards Committee	2023-present
Board Nominating Committee	2023
Human Research Committee	
Member	2020-2023
Chair	2021-2023

Referee/Reviewer services

Grants

Panel reviewer for the March of Dimes Basil O'Connor Starter Scholar Research Award	2023
Early career panel reviewer for the NIH Human Studies of Diabetes and Obesity (HSDO) Study Section	2023
Ad-hoc reviewer for the March of Dimes Discovery Research Grant	2022
Served as reviewer for the Faculty of Medicine at the American University of Beirut intramural program	2021
Served as a grant reviewer for the Consortium for Medical Marijuana Clinical Outcomes Research, a consortium of nine research institutions in the state of Florida awarding \$653,990 to	

investigators to study the clinical outcomes surrounding medical marijuana use and consumption. 2020-2023

Journals

Circulation, Diabetes Care, Public Health Nutrition, Brain, Behavior, & Immunity – Health, BMC Pregnancy, BMC Endocrine Disorders, Women’s Health, Scientific Reports, Addictive Behaviors, Drug and Alcohol Reviews, American Journal of Preventive Medicine, Cannabis and Cannabinoid Research, British Journal of Nutrition, Drug and Alcohol Dependence, Substance Use Misuse, Harm Reduction, American Journal of Epidemiology, Journal of American Heart Association, International Journal of Epidemiology

Educational Activities

Structural Competency: Factors that Produce Health Disparities 2021-present
MSU Human Medicine students
Role: Small group preceptor

Addiction Medicine 2023-present
MSU Human Medicine students
Role: Research education faculty and small group preceptor

Caring for the Underserved: Exploring Primary Care & Health Disparities 2021-2023
MSU Human Medicine students
Role: Mentor

Pain/Palliative Care 2020, 2021
MSU Human Medicine students
Role: Small group preceptor

Epidemiology intersession 2020-present
MSU Human Medicine students
Role: Small group preceptor

Simulation Science 2019-present
MSU Human Medicine students
Role: Epidemiology lecturer

EPI 910 Themes in Contemporary Epidemiology 2019, 2020
MSU Epidemiology graduate students
Role: Guest lecturer

ASK IV 654 -Cannabinoids: Basic Science and Clinical Science 2019-present
MSU Human Medicine students
Role: Co-developed and presented this online module on the latest clinical evidence on cannabinoids

E-311 Introduction to Epidemiology 2016
Undergraduate course, Indiana University-Bloomington
Role: Sole instructor

EPI 495 Epidemiology and Behavioral Health MSU Undergraduate/Graduate course Role: Teaching Assistant	2014,2015
CHPR 170 Health of the Individual Undergraduate course, West Virginia University Role: Teaching Assistant	2012
EPID 610 Principles of Epidemiology Graduate course, West Virginia University Role: Teaching Assistant	2012
<u>Student committees</u>	
Chair, Alyssa Vanderziel (Epidemiology PhD)	2019-2022
Member, Sha Yuan (Epidemiology PhD)	2019-2022
Member, Fabian Fiestas (Epidemiology PhD)	2020-2021

Honors and Awards

Invited to present my research in the 3rd International Symposium on Cyclic Vomiting Syndrome and Cannabinoid Hyperemesis. The Ohio State University Wexner Medical Center 2022

Invited to present my research in a session highlighting the work of NIH/NCCIH early-stage investigators at “NCCIH at 20: A Catalyst for Integrative Health Research” a research symposium celebrating NCCIH’s 20th anniversary. 2019

Michigan State University Postdoctoral Excellence in Research Award 2018

NIH/NIDA Director's Travel Award 2015

Michigan State University Postdoctoral Association Travel Award 2014

American Diabetes Association’s Young Investigator Travel Award 2012

Grants

Ongoing

Cannabis use and cardiovascular health outcomes among patients with high blood pressure
PI: Alshaarawy (25% effort) 2023-2028

Funded by NIH/NIDA through R01 mechanism

Total costs: \$2,996,128

Developing an App to Overcome Language Barriers for Diabetes Care Among Patients with Limited English Proficiency 2023-2024

PI: Alshaarawy (5% effort)

Funded by MSU Department of Family Medicine Faculty Scholarship award

Total costs: \$5,000

Increasing Minority Physician and APRN Clinician-scientist Research Training To Equalize
Addiction Medicine (IMPACT TEAM) 2022-2027
PI: Poland and Goldstein
Role: Co-investigator (15% effort)
Funded by NIH/NIDA through R25 mechanism
Total costs: \$ 1,337,280

Participation of Women Using Cannabis During Pregnancy in Prenatal Care and in
Research 2023-2024
PI: Al-Sahab
Role: Co-investigator (In-kind)
Funded by MSU Addiction Consortium on Research and Education Network (ACORN)
Total costs: \$10,000

Feasibility and Assessment of Sleep Training at Spectrum Lifted by MSU Extension Educational
Programming for Patients with Diabetes Mellitus (FAST ASLEEP DM) 2022-2023
PI: Holman
Role: Co-investigator (In-kind)
Funded by MSU Department of Family Medicine Faculty Scholarship award
Total costs: \$5,000

Completed

Using pre-clinical biomarkers and epidemiological models to assess the effects of cannabinoids
on disease 2018-2023
PI: Alshaarawy (75% effort)
Funded by NIH/NCCIH through R00 mechanism
Total costs: \$744,055

Well-being and mental health of immigrant populations residing in Michigan amid COVID-19
pandemic 2022-2023
PI: Azhary
Role: Consultant
Funded by MSU Department of Family Medicine Faculty Scholarship award
Total costs: \$5000

Cannabis legalization and use during pregnancy: A Michigan Study 2021-2022
PI: Vanderziel
Role: Primary mentor (In-kind)
Funded by NIH/NIDA through R36 mechanism
Total costs: \$ 53,855

Cannabis use during pregnancy and maternal and in-utero inflammation 2020-2021
PI: Alshaarawy (10% effort)
Funded by Michigan Environmental Influences on Child Health Outcomes (ECHO) VP award
Total costs: \$37,392

A feasibility study to assess recruitment, follow-up and retention of pregnant women who
regularly use cannabis 2020-2021
PI: Alshaarawy (5% effort)
Funded by MSU Department of Family Medicine Faculty Scholarship award
Total costs: \$2500

Using pre-clinical biomarkers and epidemiological models to assess the effects of cannabinoids on disease 2016-2018
PI: Alshaarawy (100% effort)
Funded by NIH/NCCIH through K99 mechanism
Total costs: \$181,182

Training program in drug dependence epidemiology 2013-2015
PI: Anthony
Role: Postdoctoral trainee (100% effort)
Funded by NIH/NIDA through T32 mechanism

Training program in cardiovascular and pulmonary diseases. 2012
PI: Mustafa
Role: Predoctoral trainee (100% effort)
Funded by NIH/ NHLBI through T32 mechanism

Not funded

Prenatal cannabis use and maternal health outcomes 2022
PI: Alshaarawy
NIH via R01 mechanism
Total requested costs: \$3,059,096

Delta-9-tetrahydrocannabinol, mitochondrial dysfunction and energy homeostasis 2022
PI: Alshaarawy
NIH via R01 mechanism
Total requested costs: \$1,923,003

The role of the peripheral cannabinoid receptors in mediating the rewarding properties of cannabis 2022
PI: Alshaarawy
NIH via DP2 mechanism
Total requested costs: \$2,267,845

Cannabis use and blood pressure variability 2021
PI: Alshaarawy
NIH via R21 mechanism
Total requested costs: \$430,375

Glycemic control and type 2 diabetes mellitus outcomes in cannabis users 2021
PI: Alshaarawy
NIH via R01 mechanism
Total requested costs: \$ \$3,176,133

Sex differences in cannabinoid-mediated adipose tissue remodeling 2019
PI: Alshaarawy
NIH via R21 mechanism
Total requested costs: \$430,375

Publications (* indicate student mentee; + indicate senior author)

Peer- reviewed manuscripts (37 total; 24 first author; 8 senior author)

1. Balasubramanian G[#], **Alshaarawy O[#]**, Venkatesan, T. Cannabis use in the United States and its impact on gastrointestinal health. Nutrition in Clinical Practice. *In press*. DOI: 10.1002/ncp.11111. **#Equal contribution. 2022 Impact factor: 3.1**
2. Orndorff M^{*}, Shipp GM, Kerver JM, Ondersma SJ, **Alshaarawy O⁺**. Trends in cocaine use among United States females of reproductive age, 2005-2019. Am J Addict. 2023 Nov. doi: 10.1111/ajad.13502. **2022 Impact factor: 3.7**
3. Müller F, Munagala A, Arnetz JE, Achtyes ED, **Alshaarawy O**, Holman HT. Racial disparities in emergency department utilization among patients with newly diagnosed depression. Gen Hosp Psychiatry. 2023 Oct; 85:163-170. doi: 10.1016/j.genhosppsych.2023.10.018. **2022 Impact factor: 7.0**
4. Vanderziel A^{*}, Anthony JC, Barondess D, Kerver JM, **Alshaarawy O⁺**. Nausea and Vomiting of Pregnancy and Prenatal Cannabis Use in a Michigan Sample. Am J Obstet Gynecol MFM. 2023. doi: 10.1016/j.ajogmf.2023.101171. PMID: 37778699. **2022 Impact factor: 6.3**
5. Müller F, Abdelnour AM, Rutaremara DN, Arnetz JE, Achtyes ED, **Alshaarawy O[§]**, Holman HT[§]. Mental Health Screening Differences in Non-English-Speaking Patients: Results From a Retrospective Cohort Study. J Prim Care Community Health. 2023. doi: 10.1177/21501319231200304. **§Shared senior authorship. 2022 Impact factor: 3.6**
6. Parker MA, **Alshaarawy O**. Prescription psychotherapeutic drug use and tobacco use among young people in the United States. Subst Use Misuse. 2023;58(12):1544-1549. doi: 10.1080/10826084.2023.2231072. PMID: 37408461; **2022 Impact factor: 2.0**
7. Vanderziel A^{*}, **Alshaarawy O⁺**. Cannabis Use and Gastrointestinal Tract Illnesses. The National Health and Nutrition Examination Surveys, 2005-2018. Drug Alcohol Rev. 2023;42(4):785-790. doi: 10.1111/dar.13609. PMID: 36734018. **2022 Impact factor: 3.8**
8. Holman H, Müller F, Bhangu N, Kottutt J, **Alshaarawy O⁺**. Impact of limited English proficiency on the control of diabetes and associated cardiovascular risk factors. The National Health and Nutrition Examination Survey, 2003-2018. Prev Med. 2022; 167:107394. doi: 10.1016/j.ypmed.2022.107394. PMID: 36563970. **2022 Impact factor: 5.1**
9. Holman H, Müller F, Bhangu N, Kottutt J, **Alshaarawy O⁺**. Impact of Limited English Proficiency on the Diagnosis and Awareness of Diabetes: The National Health and Nutrition Examination Survey, 2003-2018. Diabetes Care. 2022;45(8):e124-e125. doi: 10.2337/dc22-0594. PMID: 35763452. **2022 Impact factor: 16.2**
10. **Alshaarawy O**, Vanderziel A^{*}. Trends and Characteristics of Prenatal Cannabis Use in the U.S., 2002-2019. Am J Prev Med. 2022;63(5):846-851. doi: 10.1016/j.amepre.2022.04.027. PMID: 35718631. **2022 Impact Factor: 5.5**
11. **Alshaarawy O**, Roskos SE, Meghea CI. Tobacco cigarette and cannabis use among new mothers. Addiction. 2021. doi: 10.1111/add.15372. PMID: 33314407. **2022 Impact factor: 6.0**

12. **Alshaarawy O**, Vanderziel A*. Visit-to-visit variability in blood pressure among cannabis users participating in the Third National Health and Nutrition Examination Survey. *J Hypertens*. 2021. doi: 10.1097/HJH.0000000000002702. PMID: 33186326. **2022 Impact factor: 4.9**
13. Vanderziel A*, Parker MA, **Alshaarawy O***. Trends in heroin use among women of reproductive age in the United States, 2004-2017. *Addict Behav*. 2020; 110:106518. doi: 10.1016/j.addbeh.2020.106518. PMID:32622023. **2022 Impact factor: 4.6**
14. Sexton TR*, **Alshaarawy O***. Cannabis use prevalence among individuals with diabetes: The National Survey on Drug Use and Health, 2005-2018. *Drug Alcohol Depend*. 2020; 212:108035. doi: 10.1016/j.drugalcdep.2020.108035. PMID: 32470752. **2022 Impact factor: 4.2**
15. Wiener RC, Waters C, Bhandari R, Trickett Shockey AK, **Alshaarawy O**. The Association of Sleep Duration and the Use of Electronic Cigarettes, NHANES, 2015-2016. *Sleep Disord*. 2020:8010923. doi: 10.1155/2020/8010923. PMID: 32190389. **2022 Impact factor: Unavailable**
16. **Alshaarawy O**, Anthony JC. Cannabis use among women of reproductive age in the United States: 2002-2017. *Addict Behav*. 2019; 99:106082. doi: 10.1016/j.addbeh.2019.106082. PMID: 31421581. **2022 Impact factor: 4.6**
17. **Alshaarawy O**, Sidney S, Auer R, Green D, Soliman EZ, Goff DC, Anthony JC. Cannabis Use and Markers of Systemic Inflammation: The Coronary Artery Risk Development in Young Adults Study. *Am J Med*. 2019. doi: 10.1016/j.amjmed.2019.04.045. PMID: 31150645. **2022 Impact factor: 5.9. Featured in the American Journal of Medicine Blog.**
<https://www.youtube.com/watch?v=0zG92nF6xWk>
18. **Alshaarawy O**, Anthony JC. Are cannabis users less likely to gain weight? Results from a national three-year prospective study. *Int J Epidemiol*. 2019. doi: 10.1093/ije/dyz044. PMID: 30879064. **2022 Impact factor: 7.7. Widely covered by the media (74 outlets). Altmetric attention score of 703, in the top 5% of all research tracked by Altmetric.**
19. **Alshaarawy O**, Kurjan E*, Truong N, Olson LK. Diet-Induced Obesity in Cannabinoid-2 Receptor Knockout Mice and Cannabinoid Receptor 1/2 Double-Knockout Mice. *Obesity*. 2019. doi:10.1002/oby.22403. PMID: 30699233. **2022 Impact factor: 6.9**
20. **Alshaarawy O**. Total and differential white blood cell count in cannabis users: results from the cross-sectional National Health and Nutrition Examination Survey, 2005–2016. *J Cannabis Res*. 2019; 2(1). doi: 10.1186/s42238-019-0007-8. PMID: 33225221. **2022 Impact factor: 3.7**
21. **Alshaarawy O**, Anthony JC. Conclusion Overreach in Alcohol and Pregnancy Article: The Authors Reply. *J Stud Alcohol Drugs*. 2017;78(3):475. doi: 10.15288/jsad.2017.78.475. PMID: 28499117. **2022 Impact Factor: 3.4**
22. **Alshaarawy O**, Anthony JC. The replicability of cannabis use prevalence estimates in the United States. *Int J Methods Psychiatr Res*. 2017;26(2). doi: 10.1002/mpr.1524. PMID: 27658846. **2022 Impact Factor: 3.1**

23. Cheng HG[#], **Alshaarawy O[#]**, Cantave MD, Anthony JC. Inverse association linking serum levels of potential antioxidant vitamins with C-reactive protein levels using a novel analytical approach. *Br J Nutr.* 2016; 116(7):1256-1264. doi: 10.1017/S0007114516003159. PMID: 27620205. **#Equal contribution. 2022 Impact Factor: 3.6**
24. Anthony JC, Lopez-Quintero C, **Alshaarawy O**. Cannabis Epidemiology: A Selective Review. *Curr Pharm Des.* 2017; 22(42):6340-6352. doi:10.2174/1381612822666160813214023. PMID: 27526792. **Impact Factor: 3.1**
25. **Alshaarawy O**, Elbaz HA. Cannabis use and blood pressure levels: United States National Health and Nutrition Examination Survey, 2005-2012. *J Hypertens.* 2016;34(8):1507-12. doi: 10.1097/HJH.0000000000000990. PMID: 27270185. **2022 Impact Factor: 4.9. Altmetric attention score of 61, in the top 5% of all research tracked by Altmetric.**
26. **Alshaarawy O**, Breslau N, Anthony JC. Monthly Estimates of Alcohol Drinking During Pregnancy: United States, 2002-2011. *J Stud Alcohol Drugs.* 2016;77(2):272-6. doi: 10.15288/jsad.2016.77.272. PMID: 26997185. **2022 Impact Factor: 3.4**
27. **Alshaarawy O**, Elbaz HA, Andrew ME. The association of urinary polycyclic aromatic hydrocarbon biomarkers and cardiovascular disease in the US population. *Environ Int.* 2016;89-90:174-8. doi: 10.1016/j.envint.2016.02.006. PMID: 26878282. **2022 Impact Factor: 11.8**
28. **Alshaarawy O**, Elbaz HA. Serum cotinine levels and diabetes mellitus in never smokers. *J Diabetes Complications.* 2015;29(8):1032-6. doi: 10.1016/j.jdiacomp.2015.08.018. PMID: 26382617. **2022 Impact Factor: 3.2**
29. **Alshaarawy O**, Anthony JC. Cannabis Smoking and Diabetes Mellitus: Results from Meta-analysis with Eight Independent Replication Samples. *Epidemiology.* 2015;26(4):597-600. doi: 10.1097/EDE.0000000000000314. PMID: 25978795. **Altmetric attention score of 70, in the top 5% of all research tracked by Altmetric. 2022 Impact Factor: 5.4**
30. **Alshaarawy O**, Anthony JC. Cannabis smoking and serum C-reactive protein: a quantile regressions approach based on NHANES 2005-2010. *Drug Alcohol Depend.* 2015; 147:203-7. doi: 10.1016/j.drugalcdep.2014.11.017. PMID: 25529540. **2022 Impact factor: 4.2**
31. **Alshaarawy O**, Anthony JC. Month-wise estimates of tobacco smoking during pregnancy for the United States, 2002-2009. *Matern Child Health J.* 2015;19(5):1010-5. doi: 10.1007/s10995-014-1599-4. PMID: 25112459. **2022 Impact Factor: 2.8**
32. **Alshaarawy O**, Zhu M, Ducatman AM, Conway B, Andrew ME. Urinary polycyclic aromatic hydrocarbon biomarkers and diabetes mellitus. *Occup Environ Med.* 2014;71(6):437-41. doi: 10.1136/oemed-2013-101987. PMID: 24638887. **2022 Impact Factor: 4.9**

33. Innes KE, **Alshaarawy O**, Goins RT. Association between self-reported type 2 diabetes mellitus and physical function in older American Indians. *J Am Geriatr Soc.* 2014;62(2):380-2. doi: 10.1111/jgs.12673. PMID: 24521368. **2022 Impact Factor: 6.3**
34. **Alshaarawy O**, Zhu M, Ducatman A, Conway B, Andrew ME. Polycyclic aromatic hydrocarbon biomarkers and serum markers of inflammation. A positive association that is more evident in men. *Environ Res.* 2013; 126:98-104. doi: 0.1016/j.envres.2013.07.006. PMID: 23972896. **2022 Impact Factor: 8.3**
35. **Alshaarawy O**, Xiao J, Andrew ME, Burchfiel C, Shankar A. Serum cotinine levels and prehypertension in never smokers. *Int J Hypertens.* 2013; 2013:284524. doi: 10.1155/2013/284524. PMID: 23476744. **2022 Impact Factor: 1.9**
36. **Alshaarawy O**, Xiao J, Shankar A. Association of serum cotinine levels and hypertension in never smokers. *Hypertension* 2013; 61(2):304-8. doi: 10.1161/HYPERTENSIONAHA.112.198218. PMID: 23184382. **2022 Impact Factor: 8.3**
37. **Alshaarawy O**, Teppala S, Shankar A. Markers of Sleep-Disordered Breathing and Prediabetes in US Adults. *Int J Endocrinol.* 2012; 2012:902324. doi:10.1155/2012/902324. PMID: 22829819. **2022 Impact Factor: 2.8**

Chapters

Anthony JC, **Alshaarawy O**, Lopez-Quintero C. International Trends in Marijuana Use. In Winters K, Sabet K (Eds), *Contemporary Health Issues on Marijuana*. New York, NY: Oxford University Press, 2018

Oral Presentations

1. **Alshaarawy O**. Human Forum: Nothing About Us Without Us: Engaging Individuals with Lived Experience of Substance Use Disorders in Substance Use Research Development and Implementation. The College on Problems of Drug Dependence 85th Scientific Session, 2023. Denver, CO
2. Azhary H, Kwon B, Cunningham NR, Sayed L, **Alshaarawy O**. COVID-19 pandemic and the well-being of Michigan immigrant population. The COVID-19 in the MENA Region conference, 2022, Turkey.
3. Nguyen V*, **Alshaarawy O**⁺. Sex Differences in Cannabinoid Regulation of Body Weight. The 24th University Undergraduate Research and Arts Forum (UURAF) at Michigan State University, 2022. East Lansing, MI.
4. Ahmed A*, Sotzen M*, **Alshaarawy O**⁺. Effects of TNF- α on CB1 Expression in Pancreatic- β Islet Cells. The 24th University Undergraduate Research and Arts Forum (UURAF) at Michigan State University, 2022. East Lansing, MI.
5. Sotzen M*, Nguyen V*, Ahmed A*, **Alshaarawy O**⁺, Olson Lk. Sex Differences in Cannabinoid-Mediated Energy Homeostasis. College on Problems of Drug Dependence 84th Scientific Session, 2022. Minneapolis, MN. **Student mentee received the NIDA Women & Sex/Gender Junior Investigator travel award to present the abstract.**

6. **Alshaarawy O.** Resuming Research on Substance Use Disorders After Lifting COVID-19 Distancing Measures: Challenges and Opportunities. The College on Problems of Drug Dependence 84th Scientific Session, 2022. Minneapolis, MN.
7. **Alshaarawy O.** Ethical and Practical Considerations of Clinical Research with Sensitive Populations in the Age of Electronic Health Records. College on Problems of Drug Dependence 83rd Scientific Session, 2021. Virtual due to COVID-19 pandemic.
8. Vanderziel A*, Maslovich M, Roskos SE, **Alshaarawy O***. A Feasibility Study to Assess Recruitment, Follow-up and Retention of Pregnant Women Who Regularly Use Cannabis. The 43rd Annual Michigan Family Medicine Research Day, 2021. Virtual due to COVID-19 pandemic.
9. Vanderziel A*, **Alshaarawy O***. Cannabis and Gastrointestinal Tract Illness: a paradox? College on Problems of Drug Dependence 82nd Scientific Session, 2020. Virtual due to COVID-19 pandemic. ***Student mentee received the College on Problems of Drug Dependence travel award to present the abstract.***
10. **Alshaarawy O.** Cigarette and cannabis use among new mothers. College on Problems of Drug Dependence 81st Scientific Session, 2019. San Antonio, TX
11. **Alshaarawy O,** Kurjan E*, Truong N, Olson LK. Weight Gain and Insulin Resistance in Mice Lacking Cannabinoid-2 Receptor. College on Problems of Drug Dependence 80th Late Breaking Scientific Session, 2018. San Diego, CA.
12. **Alshaarawy O.** Cannabis use and changes in body weight studied prospectively: New estimates for the United States. MPHA Epidemiology Section 17th Conference, 2018. Ann Arbor, MI.
13. **Alshaarawy O,** Anthony JC. Cannabis Use during Pregnancy for the United States, 2005-2013. College on Problems of Drug Dependence 78th Scientific Sessions, 2016. Palm Springs, CA. ****Also selected for presentation in the meeting Media Forum known as "What's Hot!"***
14. **Alshaarawy O,** Anthony JC. Diabetes mellitus outcomes: Is cannabis smoking protective? College on Problems of Drug Dependence 76th Scientific Sessions, 2014. San Juan, PR.
15. **Alshaarawy O,** Xiao J, Shankar A. The association of serum cotinine level and diabetes mellitus in never smokers. American Diabetes Association's 72nd Scientific Sessions. 2012, Philadelphia, PA.
16. **Alshaarawy O,** Xiao J, Shankar A. Perfluoroalkyl chemicals and prediabetes in US adults. Spotlight Session, the 45th Annual SER Meeting, 2012. Minneapolis, MN.
17. Innes KE, **Alshaarawy O,** Goins RT. The association of physical function to self-reported diabetes in a population of older American Indians. The OPHA 67th Annual Meeting, 2011. Corvallis, OR.

Poster Presentations

1. **Alshaarawy O.** Bhangu N*, Kottutt J*, Müller F, Holman H. Use of Antihyperglycemic Medications among U.S. Patients with Limited English Proficiency. American Diabetes Association's 83rd Scientific Sessions, 2023. San Diego, CA
2. Elbaz HA, **Alshaarawy O.** Trends in the Co-Use of Cannabis and Prescription Psychotherapeutic Drugs in the United States. The College on Problems of Drug Dependence 85th Scientific Session, 2023. Denver, CO.
3. Vanderziel A*, Anthony JC, **Alshaarawy O.** The Estimated Effect of Prenatal Cannabis Exposure on Neonatal Birth Outcomes. The College on Problems of Drug Dependence 84th Scientific Session, 2022. Minneapolis, MN.
4. Kurjan E*, Olson LK, **Alshaarawy O***. Effects of Short-Term Administration of Delta-9-tetrahydrocannabinol on Metabolic Parameters of C57bl/6 Mice. American Diabetes Association's 81st Scientific Sessions, 2021. Virtual due to COVID-19 pandemic.
5. Vanderziel A*, **Alshaarawy O***. The association of prenatal cannabis use and birth outcomes in a Michigan cohort. College on Problems of Drug Dependence 83rd Scientific Session, 2021. Virtual due to COVID-19 pandemic. ***Student mentee received the College on Problems of Drug Dependence travel award to present the abstract.***
6. Galgali I*, Walsh M, **Alshaarawy O.** Month-Specific Estimates of Alcohol and Other Drug Use During Pregnancy: United States, 2002-2019. The 23rd University Undergraduate Research and Arts Forum (UURAF) at Michigan State University, 2021. Virtual due to COVID-19 pandemic.
7. Trost E*, Walsh M, **Alshaarawy O**, Anthony JC. Diabetes and kidney disease comorbidity: male-female and other subgroup variations. The 23rd University Undergraduate Research and Arts Forum (UURAF) at Michigan State University, 2021. Virtual due to COVID-19 pandemic.
8. **Alshaarawy O.** The Impact of Cannabis Use on Glucose Tolerance. American Diabetes Association's 80th Scientific Sessions, 2020. Virtual due to COVID-19 pandemic.
9. **Alshaarawy O.** Trends in Cannabis Use among Patients with Diabetes—The National Survey on Drug Use and Health, 2005-2017. American Diabetes Association's 79th Scientific Sessions, 2019. San Francisco, CA.
10. Kaakarli H*, **Alshaarawy O**, Anthony JC. Cannabis Use in The United States: Estimates for Males and Females of the 21st Century. The 23rd University Undergraduate Research and Arts Forum (UURAF) at Michigan State University, 2019. East Lansing MI.
11. **Alshaarawy O.** Opioid Use Among Women of Reproductive Age in the United States. MPHA Epidemiology Section 18th Conference, 2019. Ann Arbor, MI.
12. Grace AR*, Howing CE*, Pollick SA*, **Alshaarawy O***. Does Reducing Clerkship Length Impact Student-Perceived Wellness? Presented at the Mid-Michigan Region Research Day (East Lansing, MI) and the Michigan ACP chapter Meeting (Sterling Heights, MI), 2019.

13. **Alshaarawy O⁺**, Kurjan E*, Truong N, Olson LK. Mice Lacking Both Cannabinoid-1 and Cannabinoid-2 Receptors Are Resistant to Diet-Induced Obesity. American Diabetes Association's 78th Scientific Sessions, 2018. Orlando, FL.
14. **Alshaarawy O**, Anthony JC. Cannabis use and changes in body weight studied prospectively. New estimates for the United States. College on Problems on Drug Dependence 80th Scientific Sessions, 2018. San Diego, CA.
15. Kaakarli H*, **Alshaarawy O**, Anthony JC. Epidemiological Evidence on Incidence of Oxycontin® Use, 2004-2014. The 22nd University Undergraduate Research and Arts Forum (UURAF) at Michigan State University, 2018. East Lansing, MI. ***Student mentee received the University Undergraduate Research and Arts Poster Award.***
16. Kurjan E*, Olson LK, **Alshaarawy O⁺**. Weight Gain and Insulin Resistance in Mice Lacking Cannabinoid-2 Receptor. The 22nd University Undergraduate Research and Arts Forum (UURAF) at Michigan State University, 2018. East Lansing, MI.
17. **Alshaarawy O**. Total and Differential Leukocyte Counts among Cannabis Users. The National Health and Nutrition Examination Survey, 2005-2014. International Cannabinoid Research Society 27th Annual Symposium, 2017. Montreal, Canada.
18. **Alshaarawy O**, Anthony JC. Mortality from cardiovascular disease and diabetes among cannabis users. College on Problems on Drug Dependence 79th Scientific Sessions, 2017. Montreal, Canada.
19. Fairman BJ, **Alshaarawy O**. Elevated cotinine levels in recently active cannabis users absent recent cigarette or other tobacco exposure: Unmeasured blunt or environmental sources? College on Problems on Drug Dependence 78th Scientific Sessions, 2016. Palm Springs, CA.
20. **Alshaarawy O**, Anthony JC. Cannabis smoking, cardiometabolic health, and cardiovascular disease: United States NHANES, 2005-2010. College on Problems on Drug Dependence 77th Scientific Sessions, 2015, Phoenix, AZ.
21. Zhou G*, **Alshaarawy O⁺**. Estimated prevalence of extra-medical drug use among women aged 12-44 Years by pregnancy status in the United States, NSDUH 2002-2011. Annual Conference of the Michigan State University Women's Health Research, 2014, East Lansing, MI.
22. Brosig R*, **Alshaarawy O⁺**. Energy drinks consumption. Data for the United States based on the National Health and Nutrition Examination Survey 2001-2010. Michigan Epidemiology Conference, 2014. East Lansing, MI.
23. **Alshaarawy O**, Xiao J, Shankar A. The association of serum cotinine level and diabetes mellitus in never smokers," the 45th Annual SER Meeting, 2012. Minneapolis, MN.
24. **Alshaarawy O**, Xiao J, Shankar A. Perfluoroalkyl chemicals and prediabetes in US adults. American Diabetes Association's 72nd Scientific Sessions, 2012. Philadelphia, PA.

Community Engagement Activities

1. Invited panelist for the University of Michigan 'MYHealth program: Training the Next Generation of Health Researchers' <https://myhealthmichigan.com/> 2023
2. Invited speaker at Michigan Barry County Substance Abuse Task Force session on the effects of high potency THC in special populations 2023

Media

1. Public Health America with Dr. William Latimer.
<https://www.bronxnet.org/watch/videos/14019/?topicId=12>
2. Michigan Family Physician Magazine.
https://issuu.com/greaterlansingbusinessmonthly/docs/maf_p_workingfile_march2020_no_crops
3. Michigan Radio. <https://www.michiganradio.org/health/2019-04-21/msu-study-marijuana-users-gain-less-weight-than-non-users>
4. WLNS TV. <https://www.wlns.com/news/professors-explore-potential-link-between-marijuana-and-weight/1941576814/>
5. MSU Today. <https://msutoday.msu.edu/news/2019/marijuana-users-weigh-less-defying-the-munchies>
6. MSU Focal Point News. **Minute 23:30**. <https://news.jrn.msu.edu/2019/04/watch-focal-point-avengers-comes-to-box-offices-and-the-color-teal-takes-over-campus/>
7. Public Health Minute with Dr. William Latimer.
https://www.youtube.com/watch?v=1TWI8eSnF_U