Name Patricia A. Cavazos-Rehg, Ph.D.

**Contact Information**

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  + 314-362-2152, 618-781-4190 (cell)
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**Present Position**

* 2020-pres.-Professor of Psychiatry (with Tenure) Washington University School of Medicine
* 2019-pres. Co-Director, LEADers to Accelerate Global Mental Health Disparities Research Program

* 2017-pres. Director, Postdoctoral Mentored Training Program in Clinical Investigation (MTPCI)

**Education**

* 1995-1998
  + B.A., English, University of Houston, Houston, TX
* 1999-2004
  + Ph.D., Psychology, State University of New York, NY
* 2017
  + Certificate in Leadership from the University of Pittsburgh’s Institute for Clinical Research Education

**Academic Positions / Employment**

* 2020-pres.- Professor, (with Tenure) Department of Psychiatry, Washington University School of Medicine
* 2017-pres.-Director, Postdoctoral Mentored training Program in Clinical Investigation. Washington University School of Medicine
* 2015-2020-Associate Professor, (with Tenure) Department of Psychiatry,

Washington University School of Medicine

* 2013-2015-Assistant Professor (Tenure track), Department of Psychiatry, Washington University School of Medicine
* 2009-2013-Research Assistant Professor, Department of Psychiatry, Washington University School of Medicine
* 2007-2009-Research Instructor, Department of Psychiatry, Washington University

School of Medicine

* 2004-2007-NIH Postdoctoral Fellow, Division of Health Behavior Research, Washington University School of Medicine
* 2003-2004-Internship, Clinical Psychology, St. Louis Veteran’s Affairs Medical Center
* 2001-National Internship Program, Hispanic Association of Colleges and Universities (HACU)
* 2000-Educational Testing Services, Summer Program in Research for Graduate Students

**Teaching Title and Responsibilities**

* Fall 2005, Spring 2007 to present:

Washington University in St. Louis School of Medicine

Master’s Program in Applied Health Behavior Research

**Course: Foundations of Health Care Research M88 524**

Role: Course Master

* Fall 2011-2013, Summer 2016 to present:

Washington University in St. Louis School of Medicine

Master’s Program in Applied Health Behavior Research

**Course: Health Disparities: Applications in Clinical Settings U88 535**

Role: Course Master

* Spring 2015:

Washington University in St. Louis School of Medicine

Master’s Program in Applied Health Behavior Research

**Course: Independent Study M88 500**

Role: Course Master

* Summer 2010, Summer 2012:

University College Washington University in St. Louis

Master’s Program in Applied Health Behavior Research

**Course: Counseling Skills for Healthcare Professionals U88 512A**

Role: Course Master

* Fall 2006, Spring 2009:

University College Washington University in St. Louis

Master’s Program in Health Care Services

**Course: Race, Ethnicity, and Health U88 359**

Role: Instructor

**University, School of Medicine and Hospital Appointments and Committees**

* 2009-2011-Member, Washington University Medical Center Institutional Review Board
* 2018-present Curriculum Committee Member, Master of Science in Clinical Investigation (MSCI), Washington University School of Medicine
* 2018-present- Internal Advisory Committee Member, Clinical Research Training Center (CRTC), Washington University School of Medicine
* 2020-present- Member of Advisory Committee, mHealth Research Core, Washington University Institute of Clinical and Translational Sciences (ICTS)
* 2020-present- Member of Advisory Committee, Latinx | Latin American Race & Ethnicity Research Advisory Group Washington University

**Medical Licensure and Certification**

* State of Missouri Licensed Psychologist, Active, #2007016217

**Honors and Awards**

* 2018-Course Master of the Year, Master of Science in Applied Health Behavior Research, Washington University School of Medicine Clinical Research Training Center
* 2018-Award for five years of service as a Research Mentor, Students and Teachers as Research Scientists (STARS), University of Missouri-St. Louis
* 2015-Mentor Travel and Housing Award to attend Emory University Laney Graduate School STEM Research and Career Symposium
* 2014-Course Master of the Year, Master of Science in Applied Health Behavior Research, Washington University School of Medicine Clinical Research Training Center
* 2010-Center for Advancing Longitudinal Drug Abuse Research, Summer Institute, Travel Award Recipient
* 2006-2011-NIH Loan Repayment Program Award for Clinical Research
* 2004-The Delbert Mullens “Thinking Outside the Box” Award, State University of New York at Buffalo
* 2001-Americorps Volunteer & Education Award Recipient
* 1999-2003-Arthur A. Schomburg Fellow, State University of New York at Buffalo

**Consulting Relationships and Board Memberships**

* 2012-Special member, NIH Peer Review Committee, Community Influences on Health Behavior (CIHB) Study Section
* 2012, 2013-Member, Peer Review Committee, KL2 Career Development Awards Program at Washington University in St. Louis
* 2013, 2015-Member, Peer Review Committee, Barnes-Jewish Hospital Foundation and Washington University Institute of Clinical and Translational Sciences (BJHF/ICTS) Funding Program
* 2013, 2014-Mentor, Leadership Alliance Program at Washington University
* 2014-Member, NIH Peer Review Committee, NIDA National Early Warning System (NEWS) Coordinating Center (U01)
* 2014-Ad-hoc member, NIH Peer Review Committee, Social Sciences and

Studies A (SSPA) Study Section

* 2015-Ad-hoc member, NIH Peer Review Committee, Community Influences on Health Behavior (CIHB) Study Section
* 2015-Ad-hoc member, NIH Peer Review Committee, Behavioral Genetics and Epidemiology (BGES) Study Section
* 2015-Member, NIH Peer Review Committee, Cutting-Edge Basic Research Awards (CEBRA) (R21) Study Section
* 2016-present Standing Member, NIH Peer Review Committee, Community Influences on Health Behavior (CIHB) Study Section
* 2017-Acting Chair, NIH Peer Review Committee, Mechanism for Time-Sensitive Drug Abuse Research (R21) Study Section
* 2017-Member, NIH Peer Review Committee, Integrative Research on Polysubstance Abuse and Addiction Study Section
* 2017-Member, International Board of Reviewers for the World Conference on Tobacco or Health 2018
* 2017-Chair, NIH Peer Review Committee, Mechanism for Time-Sensitive Drug Abuse Research (R21) Study Section
* 2018-Ad hoc Reviewer, CDC Peer Review Committee, Health Promotion and Disease Prevention Research Centers
* 2018-Chair, NIDA Special Emphasis Panel, R13 Conference Grant Review
* 2018-Member, NIDA Special Emphasis Panel R13 Conference Grant Review
* 2018-Chair, NIH Special Emphasis Panel, Behavior Interventions for Prevention Opioid Use Disorder or Adjunct to Medication Assisted Treatment-SAMHSA Opioid STR Grants (R21/R34)
* 2019-present Chair, NIH Special Emphasis Panel, America’s Startups and Small Businesses Build Technologies to Stop the Opioid Epidemic (R41/R42/R43/R44 - Clinical Trial Optional)
* 2019-Chair, NIH Special Emphasis Panel, Virtual Reality Tools to Enhance Evidence Based Treatment of Substance Use Disorders

**Research**

***ACTIVE***

**Principal Investigator**

*A mobile technology to extend the reach of primary care for opioid misuse*

Funding Agency: NIDA (R41 DA050232)

Role: MPI (with MPIs Micah Goodman, B.S.)

Period of Support: 11/1/19-10/31/20

Status: Funded

Total Cost: $209,892

*Leveraging social media to identify and connect teens with eating disorders to a guided self-help mobile intervention*

Funding Agency: NIMH (R34 MH119170)

Role: MPI (with MPI Denise Wilfley, Ph.D.)

Period of Support: 2/01/19-1/31/22

Status: Funded

Total funded across 3 years: $708,749

*Training LEADers to Accelerate Global Mental Health Disparities in Research (LEAD)*

Funding Agency: NIMHD (MD014218)

Role: MPI (with MPI Fred Ssewamala, Ph.D.)

Period of Support: 9/1/19-8/31/24

Status: Funded

Total funded across 5 years: $1,349,723

*Missouri's Opioid Response Grant (SOR)*

Funding Agency: SAMHSA (H79 T1081697)

Role: PI

Period of Support: 9/30/18-9/29/22

Status: Funded

Total funded across 4 years: $720,005

*Leveraging Social Media for Substance use Behavioral Insight*

Funding Agency: NIDA (K02 DA043657)

Role: PI

Period of Support: 4/01/17-3/31/22

Status: Funded

Total funded across 5 years: $590,685

**Co-Investigator**

*RAPID: Social Media Based Algorithms and Interventions to Tackle the Psychological Impact of the COVID-19 Crisis*

NSF   De Choudhury / Kumar / Cavazos-Rehg (MPIs)                                                                                                                                                                     05/01/2020-04/30/2021

The COVID-19 pandemic has greatly impacted those throughout the world, increasing worry and uncertainty, especially among vulnerable groups. This project aims to leverage computer science strategies to develop an automated detection method for tweets noting anxiety related to COVID-19, and to push out clinically and empirically supported information in tweets to these identified Twitter users. This study will analyze the feasibility and efficacy of an automated detection and targeted tweet response intervention to aid in the identification and mitigation of fears and uncertainty surrounding COVID-19 on social media.

*Optimizing access, engagement and assessment to elucidate prenatal*

*influences on neurodevelopment: The Brains Begin Before Birth (B4) Midwest Consortium*

Funding Agency: NIH (R34)

Role: Co-Investigator

MPIs: Cynthia Rogers, M.D.

Period of Support: 9/30/19-3/31/21

Status: Funded

*Safety and Healthcare Epidemiology Prevention Research Development (SHEPheRD) Program*

Funding Agency: CDC

Role: Co-Investigator

MPIs: Michael Durkin, MD, MPH

Period of Support: 08/26/19-2/25/21

Status: Funded

***SUBMITTED***

*mHealth to help pregnant and postpartum women in recovery from opioid use disorder*

Funding Agency: NIDA (R34 DA050453)

Role: PI

Period of Support: 9/1/19-8/31/22

Status: First submission 28 score

*Recreational Marijuana Marketing and Young Adult Consumer Behavior*

Funding Agency: NIDA (R01 DA051232-01)

Role: MPIs (with Carla Berg, Ph.D.)

Status: Scored 30, 14%ile

*A mHealth intervention to help depression and ART adherence among HIV-infected youth in Sub-Saharan Africa (SSA)*

Funding Agency: NIMH R34

Role: Co-PI

Status: Submitted

*Leveraging nationwide datasets to investigate exposure to and consequences of ENDS and tobacco advertisements among at-risk groups*

Funding Agency: NIDA R21

Role: PI

Period of Support:  4/01/21-3/31/23

***COMPLETED***

**Principal Investigator**

*Investigating the Promotion of Eating Disorders on Twitter: Implications for Online Intervention*

Funding Agency: NIMH (R21 MH112331)

Role: PI

Period of Support: 9/01/16-1/31/20

Status: Funded

Total Cost: $337,000

*Implications of Social Media Content and Engagement for Alcohol and Marijuana Use*

Funding Agency: NIDA (R01 DA039456)

Role: PI

Period of Support: 9/01/14-8/31/19 NCE

Total Cost: $1,305,519

*Leveraging Social Media to Accelerate Mental Health Treatment*

Funding Agency: Private donation

Role: PI

Period of Support: N/A

Status: Funded

Total Cost: $25,000

*Understanding Depression Displays on Twitter and Identifying ways to Intervene*

Funding Agency: NIMH (R03 MH109024)

Role: PI

Period of Support: 8/01/16-7/31/19 NCE

Total Cost: $152,500

*Digital Therapy to Support Recovery Among Pregnant Women with Opioid Use Disorder*

Funding Agency: ICTS Pilot Award

Role: PI

Period of Support: 3/01/18-2/25/19

*Building on Bridging the Gap: Environmental Influences on Teen Substance Use*

Funding Agency: NIDA (R01 DA032843)

Role: PI

Period of Support: 8/01/12-7/31/16 NCE

Total Cost: $1,467,154

*Examination of the role of social media on substance use and violent behaviors*

Funding Agency: Institute for Public Health at Washington University School of Medicine

Role: PI

Period of Support: 1/01/16-12/31/16

*Availability and characteristics of electronic cigarettes in Guatemala*

Funding Agency: Institute for Public Health at Washington University School of Medicine

Role: PI

Period of Support: 1/01/16-12/31/16

*Substance Use Histories and Risky Sexual Behaviors Among Young Persons*

Funding Agency: NIDA (5 K01DA025733)

Role: PI

Period of Support: 9/15/09 – 8/31/13

*Investigating responses to increases in cigarette taxes*

Funding Agency: Washington University American Cancer Society-Institutional Research Grant

Role: PI

Period of Support: 1/01/11-12/31/11

**Co-Investigator**

*Smoking, Suicide, and Mental Health: Using Policy Change to Probe Causality*

Funding Agency: NIDA (R01 DA031288)

Role: Co-Investigator

PI: Richard Grucza, Ph.D.

Period of Support: 9/30/16 – 7/31/19

*Policy as Environment: Long-term Effects of Laws Restricting Youth Substance Use*

Funding Agency: NIDA (1 R01 DA031288)

Role: Co-Investigator

PI: Richard Grucza, Ph.D.

Period of Support: 1/15/12-12/31/16 NCE

*Institute of Clinical and Translational Research*

Funding Agency: NIH/NCRR (KL2RR024994)

Role: KL2 Scholar

PI: Victoria Fraser, M.D.

Period of Support: 9/1/07 – 9/14/09

**Trainee/Mentee/Sponsorship Record**: graduate students, medical students, postdoctoral scholars, and faculty include names of mentees and years during which mentorship occurred, reason for mentorship or sponsorship and outcome of relationship if known

* Elian P. Cabrera-Nguyen-3/1/2014-12/1/2015-Psychiatric epidemiology
* Carlos Rosas-6/1/2014-7/31/2014-Depression on social media
* Meghana Bharadwaj-6/1/2014-7/31/2014-Depression on social media
* Shalinee Mylvaganam-1/15/2015-5/5/2015-High-potency marijuana on YouTube
* Sarah Connolly-6/1/2015-7/31/2015-Mental health and substance use on social media
* Tatiana Bierut-6/1/2015-7/31/2015-Marijuana advertising
* Mobolaji Fowose-6/1/2015-7/31/2015-Driving while intoxicated (marijuana)
* Vivian Agbonavbare-6/1/2015-7/31/2015-Examining the effects of dabbing marijuana concentrates on social media
* Marisel Ponton-2/15/2016-9/1/2016-Marijuana dispensaries online advertising
* Erin Ferguson-6/1/2016-7/31/2016-Marijuana dispensaries online advertising
* Monique McLeary-6/1/2016-7/31/2016-Pro-eating disorder content on Reddit
* Kiriam Escobar-Lee, MD-6/1/2016-12/5/2016-Opioid social networking on Reddit
* Biva Rajbhandari-6/1/2016-5/1/2017-Marijuana on social media
* Alexandra D'Agostino-8/22/2016-5/1/2017-Opioid social networking on Reddit
* Allison Optican-1/5/2017-12/31/2017-Opioid social networking and pro-eating disorder content on social media
* Samantha Sansone-6/1/2017-8/31/2017-Marijuana on social media
* Bianca Joseph-6/1/2017-7/31/2017-Opioid social networking on Reddit
* Bria Savoy-6/1/2018-7/31/2018-Issues with obtaining parental consent for online-recruited adolescents
* Austin Smarsh-6/1/2018-7/31/2018-HIV/HCV risk behaviors among opioid misusers
* Nina Kaiser-6/15/2018-N/A--OUD in pregnant women, Eating Disorders on Social Media
* Jimmy Lam-9/5/2018-10/25/2018-Harm reduction among an opioid misusing population
* Ina Chen-1/1/2019--Identifying Immune Markers of Response to Neoadjuvant Docetaxel and Carboplatin
* Lara Crock-1/1/2018--Complex Regional Pain and the Gut Microbiome
* Jesse Davidson-1/1/2018--Exploring the Function of the Type 1 Classical Dendritic Cell in Tumor Immunity
* Pawina Jiramongkolchai-7/1/2016--Evaluation of functional connectivity in olfactory dysfunction
* Peter Kang-7/1/2018--Regional Cerebral Oxygen Metabolism Variations in White Matter Hyperintensities
* Jake Lee-7/1/2018--Predictors of Olfactory Function After Endoscopic Transsphenoidal Hypophysectomy
* Mahshid Mohseni-1/1/2019--Effect of Abaloparatide on Fracture Healing and Outcome of Pelvic Fractures
* Nandini Raghuraman-7/1/2018--Oxygen for intrauterine resuscitation: mechanisms for harm
* Carla Valenzuela-7/1/2017--Correlation of Electrocochleography Responses with Cochlear Implant Performance
* Erica Young-7/1/2018--The impact of ancestry on genetic risk factors for coronary artery disease
* Nnenna Anako-Eating Disorders on Social Media, Suubi projects
* Christine Xu---Suubi projects, Opioid projects
* Jayla Johnson-6/3/2019-7/29/2019-uMAT-R
* Sriram Zassenhaus-6/11/2019-7/19/2019-Fentanyl Reddit
* Lanie Pointer-6/11/2019-7/19/2019-Fentanyl Reddit
* Tina Chen-6/4/2019-8/6/2019-#ByeED, Fentanyl Reddit
* JJ Zhang-9/18/2019-Vaping and Depression, Opioid Recruitment Review
* Lijuan Cao-11/19/2019-Twitter vaping surveillance
* Alexandra Khalil-1/21/2020- PATH and NYTS
* Ai Zhang- 5/18/20- YRBSS Depression and Body Image
* Jingchuan Fan- 5/18/20- COVID vaping Reddit

**Bibliography**

1. Cavazos-Rehg PA, Zayas LH, Walker MS, Fisher EB, Evaluating an abbreviated version of the Hispanic Stress Inventory for Immigrants. Hisp J Behav Sci 2006: 28: 498-515.
2. Zayas LH, Cabassa LJ, Perez C, Cavazos-Rehg PA, Using interpreters in diagnostic research and practice: Pilot results and recommendations. *J Clin Psychiatry* 2007: 68(6): 924-928.
3. Cavazos-Rehg PA, Spitznagel E, Bucholz KK, Norberg K, Nurnberger J, Hesselbrock V, Kramer J, Kuperman S, Bierut LJ, The relationship between alcohol problems and dependence, conduct disorder symptoms, and number of sex partners in a sample of young adults. *Alcohol Clin Exp Res* 2007: 31(12): 2046-2052.
4. Cavazos-Rehg PA, Zayas LH, Spitznagel E, Legal status, emotional well-being and subjective health status of Latino immigrants. *J Natl Med Assoc* 2007: 99: 1126-1132.
5. Sanders Thompson V, Cavazos-Rehg PA, Jupka K, Caito N, Gratzke J, Tate K, Evidential preferences: Cultural appropriateness strategies in health communications. *Health Educ Res* 2008: 23(3):549-559.
6. Sanders Thompson V, Cavazos-Rehg PA, Tate K, Gaier A, Cancer information seeking among African Americans. *J Cancer Educ* 2008: 23(2): 92-101.
7. Cavazos-Rehg, PA, Krauss, MJ, Spitznagel, E, Schootman, M, Bucholz, KK, Peipert, JF, Sanders-Thompson, V, Cottler, LB, Bierut, LJ, Age of sexual debut among U.S. adolescents. *Contraception* 2009: 80(2): 158-162.
8. Cavazos-Rehg, PA, Spitznagel, E, Schootman, M, Strickland, JR, Afful, SE, Cottler, LB, Bierut, LJ, Risky sexual behaviors and sexually transmitted diseases: A comparison study of cocaine-dependent individuals in treatment versus a community-matched sample. *AIDS Patient Care STDS* 2009: 23(9): 727-734.
9. Cavazos-Rehg PA, DeLucia-Waack JL, Education, ethnic identity, and acculturation as predictors of self-esteem in Latino adolescents. J Couns Dev 2009: 87: 47-54.
10. Cavazos-Rehg PA, Spitznagel E, Bucholz KK, Nurnberger J, Edenberg HJ, Kramer J, Kuperman S, Hesselbrock V, Bierut LJ, Predictors of sexual debut at age 16 or younger. *Arch Sex Behav* 2010: 39(3): 664-673.
11. Cavazos-Rehg, PA, Krauss, MJ, Spitznagel, E, Schootman, M, Bucholz, KK, Cottler, LB, Bierut, LJ, Understanding adolescent parenthood from a multisystemic perspective*. J Adolesc Health* 2010: 46(6): 525-531.
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13. **Cavazos-Rehg PA**, Krauss MJ, Spitznagel EL, Schootman M, Peipert JF, Cottler LB, Bierut LJ, Type of contraception method used at last intercourse and associations with health risk behaviors among US adolescents. Contraception 2010: 82(6): 549-555.
14. **Cavazos-Rehg PA,** Krauss MJ, Spitznagel EL, Schootman M, Cottler LB, Bierut LJ, Number of sexual partners and associations with initiation and intensity of substance use. *AIDS Behav* 2011: 15(4): 869-874.
15. **Cavazos-Rehg PA,** Krauss MJ, Spitznagel EL, Schootman M, Cottler LB, Bierut LJ, Substance use and the risk for sexual intercourse with and without a history of teenage pregnancy among adolescent females. *J Stud Alcohol Drugs* 2011: 72(2): 194-198.
16. **Cavazos-Rehg PA,** Krauss MJ, Spitznagel EL, Iguchi M, Schootman M, Cottler L, Grucza RA, Bierut LJ, Associations between sexuality education in schools and adolescent birthrates: A state-level longitudinal model. *Arch Pediatr Adolesc Med* 2012: 166(2): 134-140.
17. **Cavazos-Rehg PA,** Krauss MJ, Spitznagel EL, Schootman M, Cottler LB, Bierut LJ, Pregnant by age 15 years and substance use initiation among US adolescent girls. J Adolesc 2012: 35: 1393-1397.
18. Grucza RA, Hipp PR, Norberg KE, Rundell L, Evanoff A, **Cavazos-Rehg P,** Bierut LJ, The legacy of minimum legal drinking age law changes: long-term effects on suicide and homicide deaths among women. *Alcohol Clin Exp Res* 2012: 36(2): 377-384.
19. **Cavazos-Rehg, PA,** Krauss, MJ, Spitznagel, E, Chaloupka, F.J., Schootman, M, Grucza, R., Bierut, LJ, Associations between selected state laws and teenagers’ drinking and driving behaviors. *Alcohol Clin Exp Res* 2012: 39(9): 1647-1652.
20. **Cavazos-Rehg PA,** Krauss MJ, Spitznagel EL, Schootman M, Cottler LB, Bierut LJ, Characteristics of sexually active teenage girls who would be pleased with becoming pregnant. *Matern Child Health J* 2013: 17: 470-476.
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22. Plunk AD, **Cavazos-Rehg P,** Bierut LJ, Grucza RA, The persistent effects of minimum legal drinking age laws on drinking patterns later in life. *Alcohol Clin Exp Res* 2013:37: 463-469.
23. **Cavazos-Rehg PA**, Krauss MJ, Spitznagel EL, Chaloupka, FJ, Luke DA, Waterman B, Grucza RA, Bierut LJ. Differential effects of cigarette price changes on adult smoking behaviours. *Tob Control* 2014: 23: 113-118.
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27. **Cavazos-Rehg PA,** Krauss MJ, Spitznagel E, Chaloupka FJ, Grucza R, Bierut LJ, Monitoring of non-cigarette tobacco use using Google Trends. *Tob Control:* 2014: tobaccocontrol-2013.
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30. Grucza RA, Plunk AD, Krauss MJ, **Cavazos-Rehg PA,** Deak J, Gebhart K, Chaloupka F, Bierut L, Probing the smoking-suicide association: do smoking policy interventions affect suicide risk? *Nicotine Tob Res* 2014: 16(11): 1487-1494.
31. Krauss MJ, **Cavazos-Rehg PA,** Plunk AD, Bierut LJ, Grucza RA, Effects of state cigarette excise taxes and smoke-free air policies on state per capita alcohol consumption in the United States, 1980 to 2009. *Alcohol Clin Exp Res* 2014: *38*(10): 2630-2638.
32. **Cavazos-Rehg PA,** Breslau N, Hatsukami D, Krauss MJ, Spitznagel EL, Grucza RA, Salyer P, Hartz SM, Bierut LJ, Smoking cessation is associated with lower rates of mood/anxiety and alcohol use disorders. *Psychol Med* 2014: 44(12): 2523-2535.
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