

List of Supplemental Files

1. Appendix S1. Literature Search Strategies
2. Appendix S2. Reference list of included studies
3. Appendix S3. Characteristics of included studies – Please see “Study_Summary” sheet in “OSF_Datafile_Study_Effect_Sizes_09.08.25” spreadsheet in the “Data Files and Data Analysis Code” folder, which can be accessed here: <https://osf.io/t6ywu/files/osfstorage>
4. Table S1. Meta-regression of effect sizes on standard errors using Robust Variance Estimation
5. Figure S1. Number of included studies by publication year
6. Figure S2. Contour-enhanced funnel plot for continuous outcomes
7. Figure S3. Contour-enhanced funnel plot for dichotomous outcomes

Supplemental Online Content

Appendix S1. Literature Search Strategies

1. Pubmed

- Sexual minority

Title/Abstract:

Gay OR “Men who have sex with men” OR “Men who have sex with men and women” OR Homosexual* OR Lesbian OR “Women who have sex with women” OR “Women who have sex with women and men” OR Bisexual* OR Pansexual OR Asexual OR “LGBT people” OR “Sexual minority” OR LGBT* OR Queer OR “Homosexual male” OR “Homosexual female” OR “Homosexual men” OR “Homosexual women” OR “Mostly heterosexual women” OR “Mostly heterosexual men” OR “Same-sex attraction” OR “Sexual orientation” OR “Sexual identity” OR Lesbianism OR “Women loving women” OR Heteroflexible OR MSM OR WSW OR MSMW OR WSWM OR LGB OR GLB OR GLBT OR Same-sex OR “Sexual attraction” OR “Men loving men” OR Heterosexual OR “Opposite-sex attraction” OR Sexuality OR “Sexual minorit*”

MeSH Terms:

Sexual Minorities OR Bisexuality OR Homosexuality, Female OR Homosexuality, Male OR Homophobia

- Substance use

Title/Abstract:

Alcohol* OR “Binge drink” OR Drink* OR Ethanol OR “Risky drinking” OR Drug* OR Marijuana OR Cannabi* OR Sedative* OR Benzodiazepine* OR Cocaine OR Stimulant* OR Amphetamine* OR Methamphetamine OR “Bath salt*” OR PCP OR Phencyclidine OR Ecstasy OR MDMA OR 3,4-Methylenedioxymethamphetamine OR GHB OR “Gamma hydroxybutyrate” OR Ketamine OR LSD OR “Lysergic acid diethylamide” OR Opiate* OR Opioid* OR Heroin OR Fentanyl OR Morphine OR Oxycodone OR Hydrocodone OR “Prescription drug*” OR “Prescription drug abuse” OR Inhalant* OR Addict* OR Depend* OR “Drug abuse” OR “Substance use” OR “Substance abuse” OR “Substance misuse” OR K2 OR Narcotic* OR Psychodelic OR “Glue sniffing” OR “Analgesic agent abuse” OR Doping OR “Drug misuse” OR Phenethylamine OR Lysergide OR “E-cigarette*” OR “Electronic cigarette*” OR “Electronic nicotine delivery” OR Vape* OR Vapi* OR Tobacco OR Cigarette* OR Nicotine OR Smok* OR “Chewing tobacco” OR Hookah OR Shisha OR Snuff

MeSH Terms:

Ethanol OR Alcohols OR Alcohol-Induced Disorders OR Alcohol-Related Disorders OR Alcohol Drinking OR Alcohol Drinking in College OR Underage Drinking OR Alcoholism OR Substance-Related Disorders OR Substance Abuse, Intravenous OR Prescription Drug Misuse OR Addictive Behavior OR Opioid-Related Disorders OR Cocaine-Related Disorders OR Cocaine OR Crack Cocaine OR Amphetamine-Related Disorders OR Amphetamine OR Amphetamines OR Methamphetamine OR Morphine Dependence OR Heroin Dependence OR Heroin OR Analgesics, Opioid OR Opiate Substitution Treatment OR Cannabis OR Marijuana Abuse OR Marijuana Smoking OR Benzodiazepines OR Hypnotics and Sedatives OR Phencyclidine Abuse OR N-Methyl-3,4 OR Methylenedioxyamphetamine OR Hallucinogens OR Ketamine OR Lysergic Acid Diethylamide OR Fentanyl OR Inhalant abuse

- Youth

Title/Abstract:

Teen* OR Youth* OR Adolescen* OR “Young adult*” OR “Emerging adult*” OR “Adolescent” OR “Young people” OR “Adolescent development” OR “College students” OR “High school students” OR “Middle school students” OR Students OR Juvenile

MeSH Terms:

Adolescent OR Young Adult

2. APA PsycINFO

- Sexual minority

Gay OR “Men who have sex with men” OR “Men who have sex with men and women” OR Homosexual* OR Lesbian OR “Women who have sex with women” OR “Women who have sex with women and men” OR Bisexual* OR Pansexual OR Asexual OR “LGBT people” OR “Sexual minority” OR LGBT* OR Queer OR “Homosexual male” OR “Homosexual female” OR “Homosexual men” OR “Homosexual women” OR “Mostly heterosexual women” OR “Mostly heterosexual men” OR “Same-sex attraction” OR “Sexual orientation” OR “Sexual identity” OR Lesbianism OR “Women loving women” OR Heteroflexible OR MSM OR WSW OR MSMW OR WSWM OR LGB OR GLB OR GLBT OR Same-sex OR “Sexual attraction” OR “Men loving men” OR Heterosexual OR “Opposite-sex attraction” OR Sexuality OR “Sexual minorit*”

- Substance use

Alcohol* OR “Binge drink*” OR Drink* OR Ethanol OR “Risky drink*” OR Drug* OR Marijuana OR Cannabi* OR Sedative* OR Benzodiazepine* OR Cocaine OR Stimulant* OR Amphetamine* OR Methamphetamine OR “Bath salt*” OR PCP OR Phencyclidine OR Ecstasy OR MDMA OR Methylenedioxymethamphetamine OR GHB OR “Gamma hydroxybutyrate” OR Ketamine OR LSD OR “Lysergic acid diethylamide” OR Opiate* OR Opioid* OR Heroin OR Fentanyl OR Morphine OR Oxycodone OR Hydrocodone OR “Prescription drug*” OR “Prescription drug abuse” OR Inhalant* OR Addict* OR Depend* OR “Drug abuse OR Substance* OR “Substance abuse OR “Substance misuse” OR K2 OR Narcotic* OR Psychodelic OR “Glue sniffing” OR “Analgesic agent abuse” OR Doping OR “Drug misuse” OR Phenethylamine OR Lysergide OR E-cigarette* OR “Electronic cigarette*” OR “Electronic nicotine delivery” OR Vape* OR Vapi* OR Tobacco OR Cigarette* OR Nicotine OR Smok* OR “Chewing tobacco” OR Hookah OR Shisha OR Snuff

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Teen* OR Youth* OR Adolescen* OR “Young adult” OR “Emerging adult” OR Adolescent OR “Young people” OR “Adolescent development” OR “College students” OR “High school students” OR “Middle school students” OR Students OR Juvenile

3. Web of Science

- Sexual minority

TS=Gay OR TS=“Men who have sex with men” OR TS=“Men who have sex with men and women” OR TS=Homosexual* OR TS=Lesbian OR TS=“Women who have sex with women” OR TS= “Women who

have sex with women and men” OR TS=Bisexual* OR TS=Pansexual OR TS=Asexual OR TS=“LGBT people” OR TS=“Sexual minority” OR TS=LGBT* OR TS=Queer OR TS=(Homosexual AND Male) OR TS=(Homosexual AND Female) OR TS=(Homosexual AND Men) OR TS=(Homosexual AND Women) OR TS=(Mostly AND Heterosexual AND Women) OR TS=(Mostly AND Heterosexual AND Men) OR TS=(“Same sex” AND Attraction) OR TS=(Sexual AND Orientation) OR TS=(Sexual AND Identity) OR TS=Lesbianism OR TS=(Women AND Loving AND Women) OR TS=Heteroflexible OR TS=MSM OR TS=WSW OR TS=MSMW OR TS=WSWM OR TS=LGB OR TS=GLB OR TS=GLBT OR TS=“Same sex” OR TS=“Sexual attraction” OR TS=(Men AND Loving AND Men) OR TS=Heterosexual OR TS=(“Opposite-sex” AND Attraction) OR TS=Sexuality OR TS=(Sexual AND Minorit*)

- Substance use

TS=Alcohol* OR TS=“Binge drink*” OR TS=Drink* OR TS=Ethanol OR TS=“Risky drinking” OR TS=Drug* OR TS=Marijuana OR TS=Cannabi* OR TS=Sedative* OR TS=Benzodiazepine* OR TS=Cocaine OR TS=Stimulant* OR TS=Amphetamine* OR TS=Methamphetamine OR TS=“Bath salt*” OR TS=PCP OR TS=Phencyclidine OR TS=Ecstasy OR TS=MDMA OR TS=3,4-Methylenedioxymethamphetamine OR TS=GHB OR TS=“Gamma hydroxybutyrate” OR TS=Ketamine OR TS=LSD OR TS=“Lysergic acid diethylamide” OR TS=Opiate* OR TS=Opioid* OR TS=Heroin OR TS=Fentanyl OR TS=Morphine OR TS=Oxycodone OR TS=Hydrocodone OR TS= “Prescription drug*” OR TS=“Prescription drug abuse” OR TS=Inhalant* OR TS=Addict* OR TS=Dependen* OR TS=“Drug abuse” OR TS=“Substance use” OR TS=“Substance abuse” OR TS=“Substance misuse” OR TS=K2 OR TS=Narcotic* OR TS=Psychodelic OR TS=“Glue sniffing” OR TS=“Analgesic agent abuse” OR TS=Doping OR TS=“Drug misuse” OR TS=Phenethylamine OR TS=Lysergide OR TS=E-cigarette* OR TS=“Electronic cigarette*” OR TS=“Electronic nicotine delivery” OR TS=Vape* OR TS=Vapi* OR TS=Tobacco OR TS=Cigarette* OR TS=Nicotine OR TS=Smok* OR TS=“Chewing tobacco” OR TS=Hookah OR TS=Shisha OR TS=Snuff

- Youth

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4. ProQuest

- Sexual minority

Gay OR “Men who have sex with men” OR “Men who have sex with men and women” OR Homosexual* OR Lesbian OR “Women who have sex with women” OR “Women who have sex with women and men” OR Bisexual* OR Pansexual OR Asexual OR “LGBT people” OR “Sexual minority” OR LGBT* OR Queer OR “Homosexual male” OR “Homosexual female” OR “Homosexual men” OR “Homosexual women” OR “Mostly heterosexual women” OR “Mostly heterosexual men” OR “Same-sex attraction” OR “Sexual orientation” OR “Sexual identity” OR Lesbianism OR “Women loving women” OR Heteroflexible OR MSM OR WSW OR MSMW OR WSWM OR LGB OR GLB OR GLBT OR Same-sex OR “Sexual attraction” OR “Men loving men” OR Heterosexual OR “Opposite-sex attraction” OR Sexuality OR “Sexual minorit*”

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Teen* OR Youth* OR Adolescence* OR “Young adult” OR “Emerging adult” OR Adolescent OR “Young people” OR “Adolescent development” OR “College students” OR “High school students” OR “Middle school students” OR Students OR Juvenile

Supplemental Online Content

Appendix S2. Reference list of included studies (n = 304)

1. Agnich LE, Stogner JM, Miller BL, Marcum CD. Purple drank: Prevalence and characteristics of misusers of codeine cough syrup mixtures. *Addict Behav.* 2013;38(9):2445-2449.
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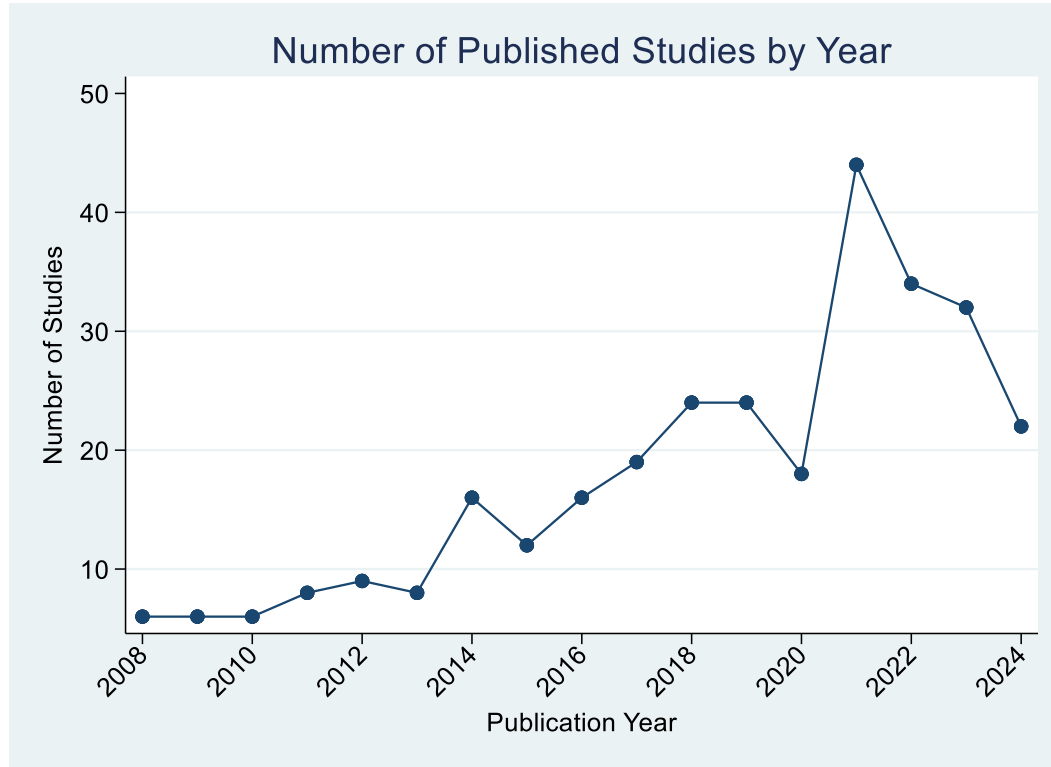
Table S1. Meta-regression of effect sizes on standard errors using Robust Variance Estimation

Substance outcome types	n (k)	Hedges' g	Standard Error	95% CI		p-value	τ²	I² (%)	Q-statistic	Q-statistic (p-value)
Continuous outcome										
All substance outcomes	360 (70)	1.24	0.46	0.16	2.33	0.03	0.23	100.00	200,000	<0.001
Substance outcome types	n (k)	Odds Ratio	Standard Error	95% CI		p-value	τ²	I² (%)	Q-statistic	Q-statistic (p-value)
Dichotomous outcome										
All substance outcomes	4311 (232)	1.24	0.10	1.02	1.50	0.03	0.24	98.32	4694.56	<0.001

Abbreviations: CI, confidence interval; k, number of studies; n, number of estimates; SD, standardized deviation. We calculated Hedges' g to measure standardized mean differences with small study bias correction in substance use between SMY and heterosexual youth.

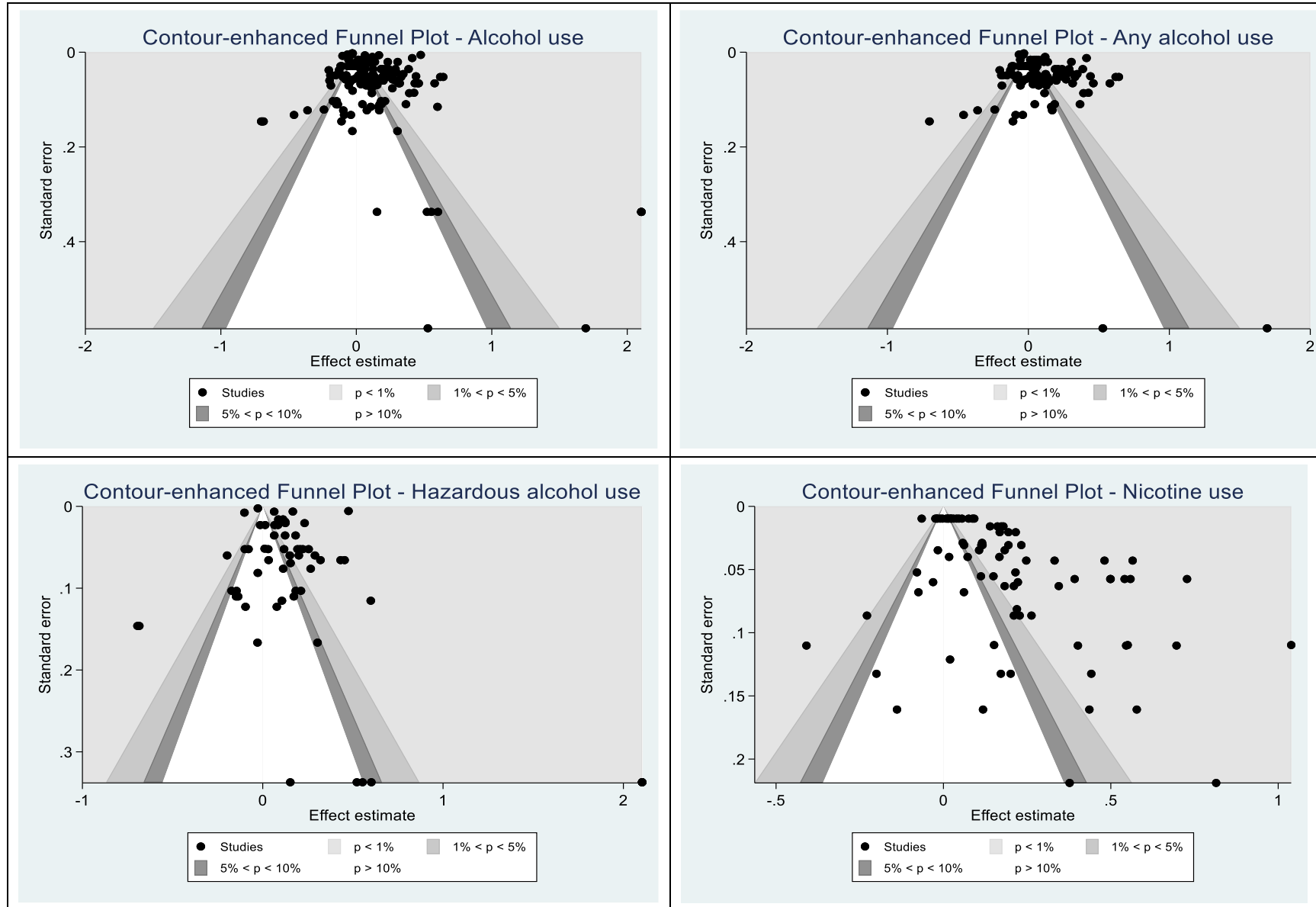
Note. This table display only studies reporting quantity and frequency outcomes for substance use. Studies measuring other outcome types (i.e., age of initiation) were excluded due to small sample sizes.

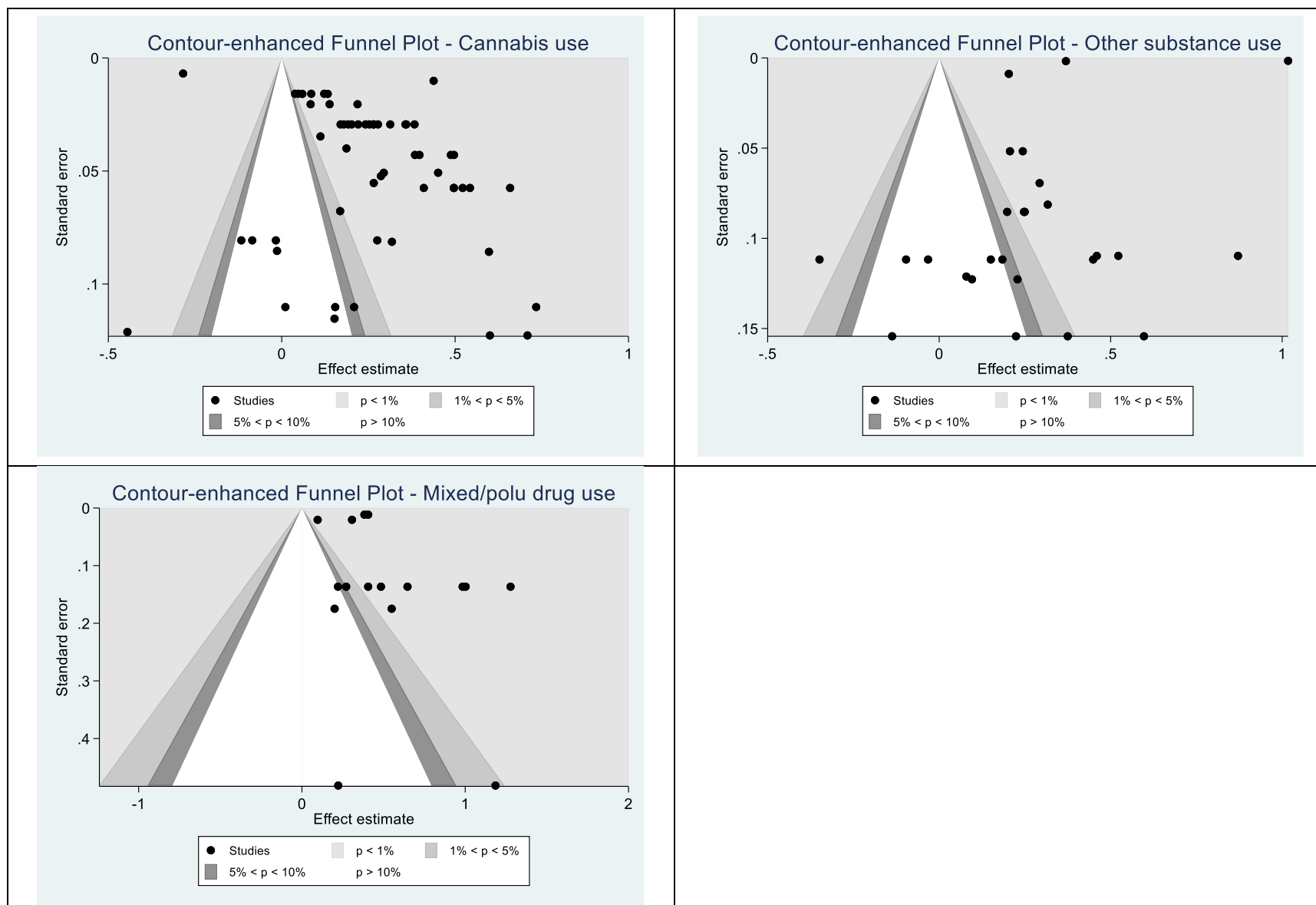
Figure S1. Number of included studies by publication year (k = 304)



Supplemental Online Content

Figure S2. Contour-enhanced funnel plot for continuous outcomes

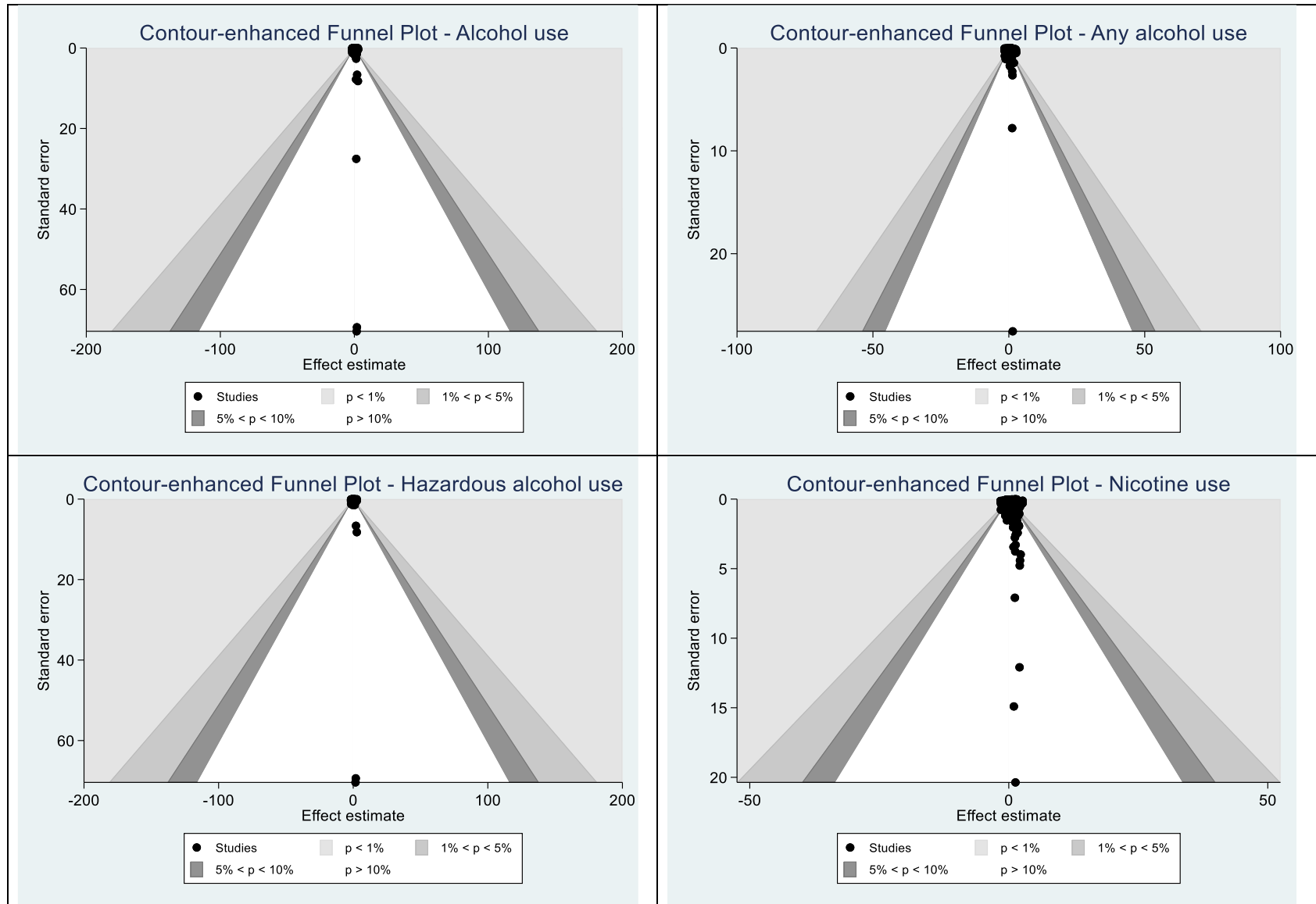


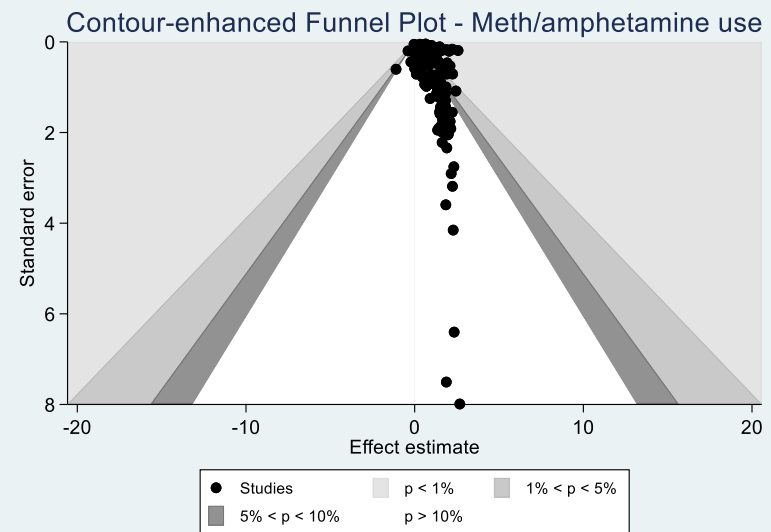
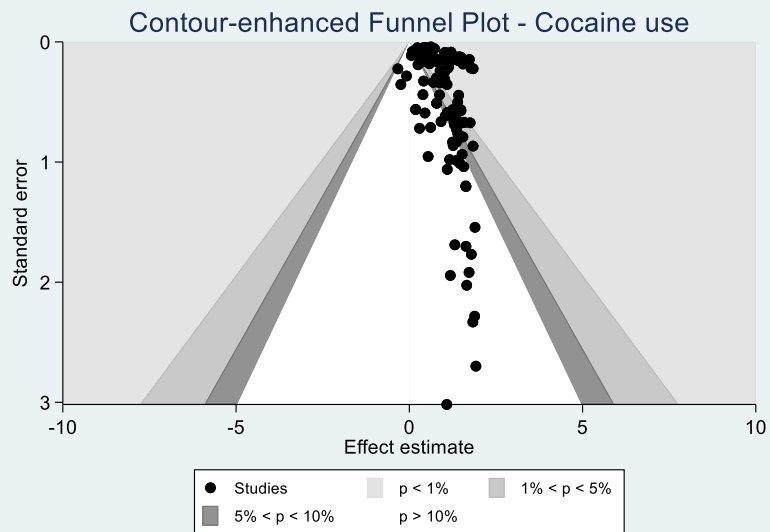
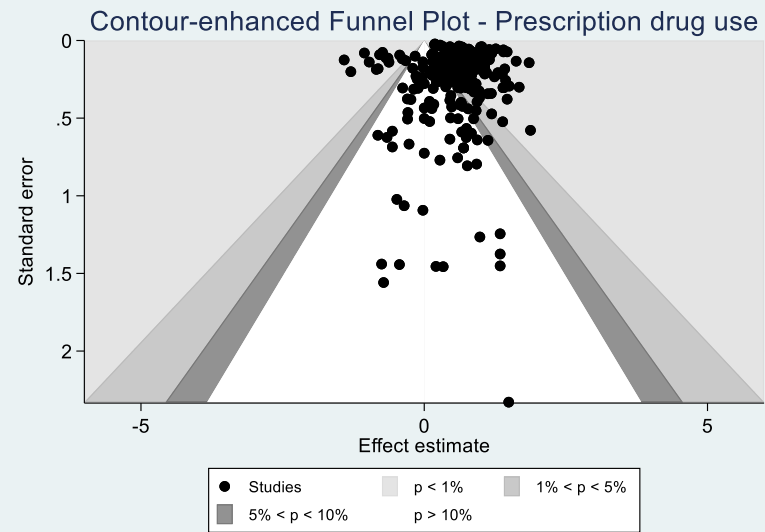
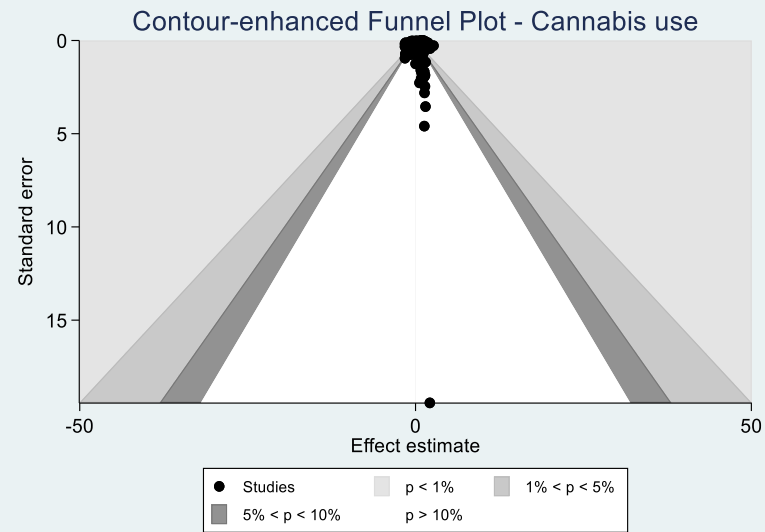


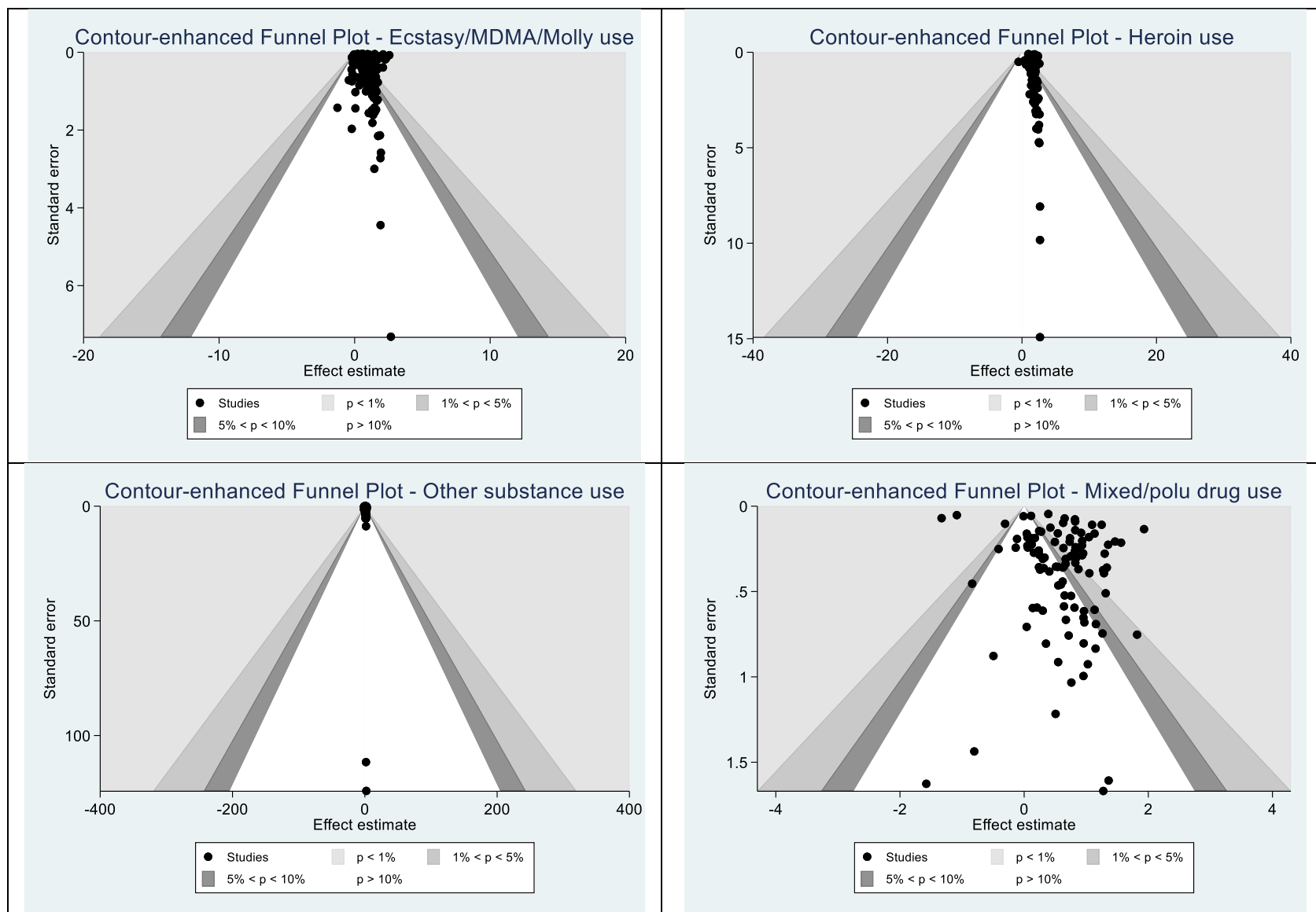
Note. Contour-enhanced funnel plots display only studies reporting quantity and frequency outcomes for substance use. Studies measuring other outcome types (i.e., age of initiation) were excluded from these visualizations.

Supplemental Online Content

Figure S3. Contour-enhanced funnel plot for dichotomous outcomes







Note. Contour-enhanced funnel plots display only studies reporting quantity and frequency outcomes for substance use. Studies measuring other outcome types (i.e., age of initiation) were excluded from these visualizations.