| **Target pop** | **Author, year Study name** | **Recruitment method** | **Screener** | **Substance use eligibility criteria** | **Screen pos, %** | **n rand** | **FU, mos** | **% FU** | **BL substance use-related characteristics** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Adolescents** | Haug, 2016210 | Classroom | None (all-comers, but only abstracted medium and high risk subgroups) | Included subgroup: ≥1 heavy use episode (≥5/4 [M/F] drinks on a single occasion) or ≥14/7 (M/F) drinks consumed in a typical week | NA | 469 | 6 | 92.8 | Drinks/wk: 11.7 Heavy use episodes/wk: 0.45 |
| Mason, 2015215 | Primary care visit | CRAFFT | 2 or 3 on CRAFFT (at risk for substance use disorder) | 15.8 | 119 | 1, 3, 6 | 98.3 | Drinking days/month: 0.9 |
| **Young adults** | Bertholet, 2015220 | Email, identified though Army recruitment center | AUDIT | >14 drinks/weeks or at least one episode of binge drinking (≥6 drinks/ occasion) per month during the past 12 months, or an AUDIT ≥8 | 45.1 | 737 | 1, 6 | 90.5 | Drinks/wk: 9.8 AUDIT: 10.6  % Alcohol use disorder: 52.0 |
| Carey, 2006189 | Introductory psychology class | Screening survey (details NR) | ≥1 episodes of heavy drinking in an average week, or four heavy drinking episodes in the last month (5/4 drinks [M/F]) | 57.6 | 509 | 1, 6, 12 | 77.8 | Drinks/wk: 19.3 Drinks/drinking day: 5.8 Heavy use episodes/wk: 1.8 |
| Collins, 2014223 | Email, identified through university administrative database | Frequency-Quantity (F-Q) | ≥1 episodes of heavy drinking (5/4 drinks [M/F]) in the past month | 59.7 | 724 | 1, 6, 12 | 74.2 | Drinks/wk: 10 |
| Daeppen, 2011192 | Military recruitment center | Self-administered assessment questionnaire (details NR) and AUDIT | Included subgroup: ≥1 heavy use episode (≥5 drinks on a single occasion) per month on average | 22 | 217 | 6 | 86.7 | Drinks/wk: 10.5 Heavy use episodes/wk: 0.9 |
| **Young adults** | Fleming, 2010160   CHIPS | Primary care visit | NR | >50/40 drinks or ≥8 heavy use episodes (≥5/4 drinks) in the past 28 days [M/F] | 7.6 | 986 | 6, 12 | 88 | Drinks/wk: 17.5 Heavy use episodes/wk: 1.8 |
| Johnsson, 2006194 | Freshman orientation | AUDIT | AUDIT ≥11/ ≥7 [M/F] | 28.5 | 177 | 12 | 84 | AUDIT: 12.6 |
| Kypri, 2004161 | Primary care visit | AUDIT | AUDIT ≥8 or more than 6/4 [M/F] standard drinks on ≥1 occasion in the past 4 weeks | 57.4 | 104 | 1.5, 6 | 90.4 | AUDIT: 16.6 |
| Kypri, 2008162 | Primary care visit | AUDIT | AUDIT ≥8 and 6/4 [M/F] standard drinks on ≥1 occasion in the past 4 weeks | 61.4 | 576 | 6, 12 | 83.9 | AUDIT: 14.9 |
| Kypri, 2009195 | Mail and email, identified through university administrative database | AUDIT | AUDIT ≥8 and more than 6/4 [M/F] standard drinks on ≥1 occasion in the past 4 weeks | 33.6 | 2435 | 1,6 | 64.8 | Drinks/drinking day: 8.5 |
| LaBrie, 2009196 | Mail, identified through university administrative database | 20-item Drinking Motives Questionnaire | None (study not limited to risky drinkers) | NA | 285 | 2.5, 6 | 87.7 | Drinks/wk: 4.2 Heavy use episodes/wk: 2.2 |
| LaBrie, 2013227 | Mail and email, identified through university administrative database | Generic/study-specific | ≥5/4 [M/F] drinks on ≥1 occasion(s) during the past month | 38.0 | 554 | 1, 3, 6, 12 | 76.9 |  |
| Larimer, 2007197 | Mail, identified through university administrative database | QFP | None (study not limited to risky drinkers) | NA | 1488 | 12 | 67.2 | Drinks/wk: 4.6 |
| **Young adults** | Leeman, 2016211 | Email, identified through university administrative database | DDQ-R | ≥5/4 [M/F] drinks on one occasion in the past month | 51.6 | 208 | 1,6 | 78.8 | Drinks/wk: 7 Heavy use episodes/wk: 1.3 |
| Lewis, 2014225 | Email, identified through university administrative database | QF | ≥5/4 [M/F] drinks on one occasion in the past month | 42.5 | 359 | 3, 6 | 83.8 | Drinks/wk: 13.1 Drinks/drinking day: 4.7 |
| Marlatt, 1998198 | Mail, identified through university administrative database | QF | ≥5 drinks on one occasion in the past month, or 3 alcohol-related problems on 3-5 occasions in the past 3 years on the RAPI | 24.9 | 348 | 12, 24, 36, 48 | 85.9 | Drinks/wk: 9.9 Drinks/drinking day: 4.5 |
| Martens, 2010199 | Email, identified through university administrative database | Generic/study-specific | None (study not limited to risky drinkers) | 89.5 | 263 | 1, 6 | 81.4 | Drinks/wk: 6.5 |
| Neighbors, 2004200 | Psychology class | QF | 5/4 [M/F] drinks on ≥1 occasion(s) during the past month | 43.1 | 252 | 3,6 | 82.1 | Drinks/wk: 11.5 |
| Neighbors, 2010201 | Mail, identified through university administrative database | QF | ≥5/4 [M/F] drinks on ≥1 occasion(s) during the past month | 42.9 | 818 | 6, 12, 18, 24 | 86.6 | Drinks/wk: 11.2 Heavy use episodes/wk: 6.4 |
| Neighbors, 2016239 | Email, identified through university administrative database | QF | ≥5/4 [M/F] drinks on ≥1 occasion(s) during the past month | 43.5 | 623 | 3, 6 | 85.1 | Drinks/wk: 9.4 |
| **Young adults** | Schaus, 2009170 | Primary care visit | Single QF question | ≥5/4 [M/F] drinks on ≥1 occasion(s) during the past month | 24.2 | 363 | 3, 6, 9, 12 | 65 | Drinks/wk: 9 Drinks/drinking day: 4.8 Heavy use episodes/wk: 1.3 |
| Turrisi, 2009205 | Mail and email, identified through university administrative database | NA (drinking not required for participation) | None (study not limited to risky drinkers) | 79 | 1275 | 10 | 85.5 | Drinks/wk: 3.8 |
| Voogt, 2014226   What Do You Drink (WDYD) | Email, identified through university administative data; flyers | QF | ≥21/14 [M/F] drinks per week and/or consumption of ≥5 drinks at least one day per week in past 6 months | 18.3 | 913 | 1, 3, 6 | 81.6 | Drinks/wk: 22.2 Heavy use episodes/wk: 1.8  % Alcohol dependence: 0.0 |
| **Adults** | Aalto, 2000206  Lahti Project | Primary care visit | CAGE and QF | Ethanol≥ 280/190 g/week [M/F] or CAGE ≥ 3/2 [M/F] | NR | 265 | 12, 24\*, 36 | 72.5 | Drinks/wk: 23.1 Drinks/drinking day: 11  % Alcohol dependence: 0.0 |
| Bischof, 2008149 | Primary care visit | AUDIT and LAST | Alcohol dependence, abuse, at-risk consumption (>30/20 g ethanol per day [M/F], or >80/60 g of alcohol [M/F] on at least two occasions within the last 4 weeks) | 20.7 | 408 | 12 | 91.7 | Drinks/wk: 31.4  % Alcohol dependence: 30.4 |
| Burge, 1997188 | Primary care visit | DIS (from DSM-III) | Alcohol abuse or dependence within the past year | 8.1 | 242 | 12, 18 | 72.3 | Drinks/wk: 37.3  % Alcohol dependence: 35.0 |
| Chang, 2011190 | Mail, identified through medical and administrative databases,  subway ads | T-ACE | T-ACE alcohol screen-positive and/or typically consumes >7 drinks/week or >2 drinks at a time | 29.5 | 511 | 12 | 96.1 | Drinks/drinking day: 2.2 Heavy use episodes/wk: 0.2  % Alcohol use disorder: 9.4 |
| Crawford, 2014185   SHEAR | Sexual health clinic visit | M-SASQ | >8/6 [M/F] units of alcohol on ≥1 occasion per month | 68.5 | 802 | 6 | 73.8 | % Heavy use episodes/wk: 61.8 |
| **Adults** | Cunningham, 2012231 | Random digit dialing | AUDIT | AUDIT ≥8 | 19.7 | 1767 | 3, 6 | 76.3 | Drinks/wk: 12 |
| Curry, 2003152 | Primary care visit | Other/generic and AUDIT | ≥2 drinks per day in the past month, ≥2 episodes of binge drinking (≥5 drinks on a single occasion), or ≥1 episodes of driving after consuming ≥3 drinks AND scoring ≤15 on AUDIT | 11 | 307 | 3, 12 | 72 | Drinks/wk: 14.2  % Alcohol dependence: 0.0 |
| Drummond, 2009208 | Primary care visit | AUDIT | AUDIT ≥8 or a diagnosis of AUD or >21 units/week or >8 units/day | 24.9 | 112 | 6 | 80.4 | Drinks/wk: 59.1 Drinks/drinking day: 14 |
| Emmen, 2005193 | Primary care visit | Rasch homogeneous scale | Answered affirmatively to any of the screening questions | 6 | 123 | 6 | 91.1 | Drinks/wk: 27.5  % Alcohol dependence: 14.0 |
| Fleming, 1997153   Project TrEAT (Trial for Early Alcohol Treatment) | Primary care visit | QF, CAGE | >14/11 [M/F] drinks per week | 16.5 | 774 | 6, 12, 24, 36, 48 | 93.4 | Drinks/wk: 19 Heavy use episodes/wk: 1.4 |
| Hansen, 2012234 | National health examination survey | Other/generic | >21/14 [M/F] drinks per week | 6.3 | 1380 | 6, 12 | 77.1 | Drinks/wk: 27.2 |
| Heather, 1987209   DRAMS (drink reasonably and moderately with self-control) | Primary care visit | Other/generic | 35/20 [M/F] units of alcohol per week or clinical impression of an alcohol-related problem | NR | 104 | 6 | 87.5 | Drinks/wk: 50.7 |
| **Adults** | Helstrom, 2014240 | PCP Referral, after screening at primary care visit | AUDIT-C | >21/14 [M/F] drinks over the past week or any episodes of binge drinking (≥5/4 [M/F] drinks on one occasion) | NR | 139 | 8, 12 | 95.2 | Drinks/wk: 24 Drinks/drinking day: 4.8 Heavy use episodes/wk: 2.5 |
| Hilbink, 2012233 | Primary care visit | AUDIT | AUDIT ≥8 | 11.3 | 712 | 24 | 65.4 | AUDIT: 712 patients scored >7 and <20 |
| Kaner, 2013186   Screening and Intervention Programme for Sensible drinking (SIPS) | Primary care visit | FAST or M-SASQ | Positive for alcohol use disorder according to FAST or M-SASQ | 30.1 | 756 | 6, 12 | 79.1 | AUDIT: 12.7 |
| Maisto, 2001163 | Primary care visit | AUDIT and QF | AUDIT ≥8 or 16/12 [M/F] average drinks per week over past year | 10.5 | 301 | 6, 12 | 77.1 | Drinks/wk: 16.6 Drinks/drinking day: 5.6 |
| Ockene, 1999165 | Primary care visit | CAGE and unspecified QF items | >12/9 [M/F] drinks per week or binged (≥5/4 [M/F] drinks) on 1 or more occasions in previous month | 18 | 530 | 6, 12, 48 | 84.3 | Drinks/wk: 17.6 Heavy use episodes/wk: 1.1  % Alcohol dependence: 2.0 |
| Richmond, 1995175 | Primary care visit | QF | >35/21 [M/F] drinks per week | 6.9 | 285 | 6, 12 | 69.1 | Drinks/wk: 36%  Alcohol dependence: 0.0 |
| Rose, 2017245 | Primary care visit | SASQ | ≥1 on the SASQ ( ≥5/4 [M/F] drinks per day in the past year) | 36.8 | 1855 | 3, 6 | 73.5 |  |
| Rubio, 2010168 | Primary care visit | AUDIT | ≥5/4 [M/F] drinks per occasion on one or more occasions in the previous month and AUDIT ≤15 | 15.9 | 752 | 12 | 89.6 | Drinks/wk: 27.2 Heavy use episodes/wk: 0.7 |
| **Adults** | Saitz, 2003169 | Primary care visit | CAGE and QF | Answered yes to ≥ 1 CAGE items (modified to past year), >4/3 [M/F] drinks per occasion in past 30 days, or >14/7 [M/F] drinks per week in past 30 days | 14.3 | 312 | 6 | 75.6 | Drinks/drinking day: 5.5 |
| Schulz, 2013228 | Email, identified through research access panel | QFV and AUDIT | >2/1 [M/F] drinks per day; drinking >5 days per week; AUDIT ≥8; or currently trying to become pregnant, drinking alcohol while pregnant or breastfeeding, or trying to get one's partner pregnant (for men) | 39 | 448 | 6 | 59.2 | Drinks/wk: 13.65 |
| Scott, 1990171 | Primary care visit and direct mail, identified through administrative database | Other/generic (QF) | ≥ 350/210 g ethanol [M/F] of alcohol per week | NR | 226 | 12 | 66.4 | Drinks/wk: 44.3 |
| Senft, 1997172 | Primary care visit | AUDIT | AUDIT score 8-21 | 7.7 | 516 | 6, 12 | 80.2 | Drinks/wk: 16.7 Drinks/drinking day: 4.9 |
| Upshur, 2015218  Project RENEWAL | Primary care visit | AUDIT-C | AUDIT-C ≥4 | NR | 82 | 3, 6 | 92.7 | % Alcohol use disorder: 88.9 |
| Wallace, 1988174 | Primary care visit and direct mail, identified through administrative database | QF and CAGE | ≥35/21 [M/F] units per week | 7.2 | 909 | 6, 12 | 82.3 | Drinks/wk: 49.5 |
| **Adults** | Watkins, 2017246 | Primary care visit | NIDA quick screen | Positive score for risky opioid or alcohol use in previous 3 months on NIDA 3-item quick screen | 61.2 | 397 | 6 | 69.2 | Typical drinks per day, past 12 months (median [IQR]): 6 (3-10) (limited to those who reported using alcohol in the past, n=366)  Years of heroin use (median [IQR]): 4 (2-10) (limited to those who reported having used heroin in the past, n=149)  Ever hospitalized for alcohol or opioid use, %: 26.8 |
| Wilson, 2014169, 224 | Direct mailing, identified through medical records databases | AUDIT | AUDIT ≥8 score | 35.5 | 102 | 6 | 65.7 | AUDIT: 12 |
| **Older adults** | Ettner, 2014183  Project SHARE | Mail, identified through administrative database | CARET | CARET ≥1 | 33.6 | 1186 | 6, 12 | 88.4 | Drinks/wk: 13.6 |
| Fleming, 1999157  Project GOAL (Guiding Older Adult Lifestyles) | Primary care visit | QF | >11/>8 [M/F] drinks per week, CAGE ≥2 (≥4/3 drinks per occasion [M/F] ≥2 times in past 3 months) | 10.8 | 158 | 3, 6, 12, 24 | 92.4 | Drinks/wk: 16 Heavy use episodes/wk: 1 |
| Moore, 2010176   Healthy Living As You Age (HLAYA) | Phone, identified through administrative data | CARET | CARET ≥1 | 29.5 | 631 | 3, 12 | 82.6 | Drinks/wk: 15.2 |
| Watson, 2013230 | Primary care visit | AUDIT | AUDIT ≥8 | 4.4 | 529 | 6, 12 | 87.5 | % Alcohol dependence: 7.9 |
| **Pregnant women** | Chang, 1999181 | Prenatal visit | T-ACE | Positive T-ACE ≥ 2 | 45.7 | 250 | 5 | 99.8 | Drinks/drinking day: 0.8 |
| Chang, 2005191 | Prenatal visit | T-ACE | T-ACE ≥2 and at risk for prenatal alcohol use (any alcohol consumption in 3 months before study enrollment [while pregnant], consumption of ≥1 drink per day in 6 months before study enrollment, or drinking during a previous pregnancy) | 27.4 | 304 | 3 | 94.7 | Drinks/drinking day: 1.6 |
| O'Connor, 2007202 | Prenatal visit | QF and TWEAK | Current alcohol use | 82 | 345 | 4 | 73.9 | Drinks/drinking day: 1.9 |
| Ondersma, 2015217 | Prenatal visit | T-ACE, and a single NIAAA item | Drinking weekly or more in the past month; or ≥4 drinks at least monthly in the 12 months before becoming pregnant | 9.2 | 48 | 6 | 81.2 | % Heavy use episodes/wk when not pregnant: 58.3  % Alcohol abuse/dependence: 25.0 |
| Osterman, 2014221 | Prenatal visit | AUDIT | Any alcohol use in past year | 71.2 | 122 | 1, 5 | 80.3 | Drinks/wk: 0 Drinks/drinking day: 0.2 AUDIT: 5.2 |
| Reynolds, 1995203 | Prenatal visit | T-ACE | Any alcohol use in past month | 9.2 | 78 | 2 | 92.3 | Drinks/month: 36.6 |
| Rubio, 2014184 | Prenatal visit | QF | ≥3 drinks per week between conception and recognition of pregnancy, ≥1 drink per week after recognition of pregnancy, or had ≥1 episode of drinking ≥4 drinks on one occasion, after conception | 47.2 | 330 | 8.5, 13, 19 | 76.1 | Drinks/drinking day: 0.3  % Alcohol dependence: 23.6 |
| **Pregnant women** | Tzilos, 2011235 | Prenatal visit | T-ACE | T-ACE ≥2 or ≥7 standard drinks per week or ≥2 drinks at a time before pregnancy | 20.4 | 50 | 1 | 96 | Drinks/wk: 8.7 |
| van der Wulp, 2014222 | Email and phone, identified through administrative database | 5-item Dutch QFV | Any alcohol use since awareness of pregnancy | NR | 393 | 3, 6 | 62.8 | Drinks/wk: 1.0 |
| **Postpartum women** | Fleming, 2008158 | Postpartum visit | QF | ≥ 20 standard drinks or ≥4 drinks on ≥4 occasions or ≥20 drinking days in the last 28 days | 13.9 | 235 | 6 | 88.1 | Drinks/wk: 8.3 Heavy use episodes/wk: 0.8 |
| Ondersma, 2016212 | Hospital post-delivery recovery | QF and T-ACE | TACE ≥2 and >4 standard drinks at a time at least twice a month in the 12 months prior to becoming pregnant | 25.6 | 123 | 3, 6 | 69.9 | ASSIST alcohol score (alcohol use in the 3 months prior to pregnancy): 22.3 |

\*12 and 24 month data were not abstracted due to limited participants with full followup and attrition was >40%

**Abbreviations:** AUDIT = Alcohol Use Disorders Identification Test; CAGE = Cut down, Annoyed, Guilty, Eye-opener; CARET = Comorbidity Alcohol Risk Evaluation Tool; CRAFFT = Car, Relax, Alone, Forget, Friends, Trouble; DDQ-R = Daily Drinking Questionnaire-Revised; DIS = Diagnostic Interview Schedule for Alcohol Abuse and Dependence; DSM = Diagnostic and Statistical Manual of Mental Disorders; FAST = Fast Alcohol Screening Test; FU = followup; LAST = Luebeck Alcohol Dependence and Abuse Screening Test; M/F = males/females; mos = months; M-SASQ = Modified Single Alcohol Screener; n = number of participants; NA = not applicable; NIAAA = National Institute on Alcohol Abuse and Alcoholism; NR = not reported; pos = positive; QF = brief (e.g., 1-3 item quantity/frequency assessment); QFP = Quantity/Frequency/Peak; QFV = Quantity-Frequency-Variability; rand = randomized; RAPI = Rutgers Alcohol Problem Index; T-ACE = Tolerance, Annoyance, Cut down, Eye-opener; TWEAK = Tolerance, Worried, Eye-opener, Amnesia, [K] Cut down; wk = week