

# ASAM/ACMT Clinical Consensus Statement on Drug Testing in Substance Use Disorder Treatment

## ***Expert Committee Members:***

Leslie R. Dye, MD, DFACMT, FASAM, FACCT  
Diane Hindman, MD, PharmD, FAAP, FACMT  
Michael A. Incze, MD, MEd, FACP, FASAM  
Kurt C. Kleinschmidt, MD, DFACMT, FASAM  
Elizabeth E. Krans, MD, MSc  
Lewis S. Nelson, MD, MBA (*Co-Chair*)  
Jeanmarie Perrone, MD  
Kelly S. Ramsey, MD, MPH, MA, FACP, DFASAM  
Andrew Seaman, MD  
Evan S. Schwarz, MD, FACEP, FACMT, FASAM (*Co-Chair*)  
Sarah Spencer, DO, FASAM  
Silas W. Smith, MD, DFACMT, FACEP  
Jason Wasche, DO, FASAM

## ***ASAM Team:***

Maureen P. Boyle, PhD  
Amanda Devoto, PhD  
Emily Einstein, PhD  
Sarah Framnes-DeBoer, MS  
Dawn L. Lindsay, PhD  
Janette Norrington, PhD  
Taleen Safarian

## ***Contractor Support:***

Sacha K. Song, MD

The individuals listed below volunteered as members of the "People with Lived Experience (PWLE) Panel" and contributed to the development of this guidance. The inclusion of their names in this document acknowledges their contributions but does not imply full endorsement of all recommendations contained herein.

## **Patient Panel Members:**

*To be added upon consensus statement finalization*

This clinical practice guideline has been endorsed by:

*To be added upon consensus statement finalization*

## 40 Table of Contents

41	Executive Summary .....	5
42	Purpose.....	5
43	Background.....	5
44	Summary of Recommendations .....	6
45	Patient Voice .....	7
46	Introduction.....	8
47	Purpose.....	8
48	Background.....	8
49	Terminology .....	8
50	Clinical Uses and Limitations of Drug Testing.....	9
51	Potential Harms of Drug Testing .....	10
52	Scope of Consensus Statement .....	11
53	Intended Audience .....	11
54	Qualifying Statement .....	11
55	Methodology .....	12
56	Committee Formation and Oversight.....	12
57	Systematic Literature Review .....	12
58	Recommendation Development.....	13
59	Informed Consent, Confidentiality, and Shared Decision-Making.....	13
60	Considerations for Ordering a Drug Test.....	14
61	Recommendations for Considerations for Ordering a Drug Test .....	14
62	Implementation Considerations .....	14
63	Rationale .....	15
64	Table.....	16
65	Matrix Considerations.....	18
66	Effective Implementation of Drug Testing in Clinical Practice.....	18
67	Substance Use Disorder Treatment Settings .....	18
68	Recommendations for Effective Implementation of Drug Testing in Clinical Practice .....	18
69	Implementation Considerations .....	19
70	Rationale .....	20

71	Acute Care Settings.....	24
72	Implementation Considerations .....	24
73	Rationale .....	24
74	Health Equity .....	25
75	Drug Testing Limitations .....	25
76	Recommendations for Drug Testing Limitations.....	25
77	Implementation Considerations .....	26
78	Rationale .....	26
79	Clinician Competencies .....	27
80	Recommendations for Clinician Competencies.....	27
81	Implementation Considerations .....	27
82	Rationale .....	28
83	Population Specific Considerations .....	29
84	Pregnant Patients.....	29
85	Infant Drug Testing.....	31
86	Justice-Involved Individuals .....	32
87	Adolescents .....	33
88	Adolescent Consent and Confidentiality .....	34
89	Home testing .....	35
90	Patient Voice .....	35
91	Bibliography .....	37
92	Appendix A. Glossary of Terms.....	47
93	Appendix B. Abbreviations and Acronyms .....	51
94	Appendix C. Methodology.....	54
95	Expert Committee and Patient Panel .....	54
96	Expert Committee Formation and Oversight.....	54
97	Patient Panel.....	54
98	Key Questions and Outcome Development.....	55
99	Literature Review.....	56
100	Evidence Review .....	61
101	Recommendation Development.....	61

102	External Review.....	61
103	Appendix D. Resources .....	67
104	Validated Substance Use Screening and Assessment Tools.....	67
105	Educational Resources .....	67
106	Contingency Management .....	67
107	Appendix E. Disclosures of Interest .....	68
108		
109		

## 110 **Executive Summary**

### 111 **Purpose**

112 The American Society of Addiction Medicine (ASAM), in partnership with the American  
113 College of Medical Toxicology (ACMT), developed this Clinical Consensus Statement on Drug  
114 Testing in Substance Use Disorder (SUD) Treatment (hereafter referred to as the Consensus  
115 Statement) to provide guidance on the appropriate use of drug testing in healthcare settings.

116 This Consensus Statement is intended to support clinicians in determining when, why, and how  
117 to apply drug testing in the identification of substance use and the clinical management of SUD  
118 or substance use related medical concerns. It emphasizes patient-centered, trauma-informed  
119 approaches to drug testing that weigh potential benefits against potential harms.

120 The guidance applies to adults and adolescents receiving clinical care in diverse settings,  
121 including SUD treatment programs, primary care, emergency departments, hospitals, residential  
122 settings, obstetric care, and other general healthcare settings. This document does not address  
123 workplace, forensic, department of transportation (e.g., roadside), or correctional drug testing  
124 conducted for non-clinical purposes.

### 125 **Background**

126 Drug testing—the analysis of a biological sample to detect recent exposure to substances —has  
127 long been used in SUD treatment and other clinical settings. When used appropriately, drug  
128 testing can provide information that helps clinicians clarify substance exposure, inform treatment  
129 planning, and monitor adherence to prescribed medications. Drug testing may also be used as  
130 part of therapeutic interventions such as contingency management (CM) when aligned with  
131 patient goals.

132 However, existing research has not demonstrated that routine or universal drug testing improves  
133 patient outcomes. Moreover, drug testing can contribute to substantial patient harm, including  
134 stigmatization; disengagement from care; erosion of trust; and serious social, legal, and life  
135 consequences for patients. In addition, misapplication or misinterpretation of drug test results can  
136 lead to inappropriate clinical decisions, denial of care, or punitive responses that are inconsistent  
137 with current principles of SUD treatment.

138 These concerns are heightened by the rapidly evolving and increasingly complex drug supply,  
139 broad variability in test performance characteristics, and well-documented inequities in how drug  
140 testing is applied and how positive results are acted upon—particularly for pregnant or parenting  
141 patients, justice-involved individuals, and racially and ethnically marginalized populations. In  
142 addition, understanding has also shifted over the past decade regarding the impact of drug testing  
143 on patient engagement and retention in care.<sup>1,2</sup>

144 Given these challenges, updated guidance is needed to support clinicians to determine when and  
145 how to apply drug testing in ways that meaningfully informs patient care while minimizing  
146 harm, preserving patient dignity, and promoting ongoing engagement in SUD treatment.

## 147 **Summary of Recommendations**

148 This Consensus Statement emphasizes that drug testing is a **clinical tool** and not a substitute for  
149 patient self-report or clinical assessment. The recommendations throughout this document are  
150 grounded in the principle that drug testing should be **applied in a patient-specific, trauma-**  
151 **informed, and non-punitive manner.**

- 152 1. The decision to order a drug test, presumptive or confirmatory, should be patient specific,  
153 considering:
  - 154 a. How the results may inform clinical decision making (*Unanimous consensus*)
  - 155 b. The potential consequences for the patient, including but not limited to legal,  
156 financial, and occupational (*Unanimous consensus*)
- 157 2. Universal drug testing<sup>a</sup> for the sole purpose of screening for substance use is not  
158 recommended in any clinical population, including with adolescents and pregnant  
159 patients. (*Unanimous consensus*)
  - 160 a. Screening for problematic substance use should primarily rely on self-report using  
161 validated screening tools. (*Unanimous consensus*)
- 162 3. Confirmatory drug testing should be considered when presumptive test results are  
163 unexpected or incongruent with patient history and the results will potentially inform  
164 significant clinical decisions. (*Unanimous consensus*)
- 165 4. Drug testing should be conducted following trauma-informed principles of care unless  
166 the patient’s medical condition prevents this approach. As such, observed urine specimen  
167 collection is not recommended. (*Unanimous consensus*)
- 168 5. The frequency of drug testing should not be pre-determined; it should be individualized  
169 based on patient care needs. (*Unanimous consensus*)
- 170 6. Unless the patient’s medical condition prevents it, unexpected drug test results should  
171 prompt conversations with them and consideration of treatment plan updates, using a  
172 shared decision-making framework. (*Unanimous consensus*)
- 173 7. Unexpected drug test results should not be the sole basis for:
  - 174 a. Clinical decisions (*Unanimous consensus*)
  - 175 b. Administratively discharging a patient from clinical care (*Unanimous consensus*)
- 176 8. Drug test results alone should not be used as the sole basis for:
  - 177 a. Diagnosing a SUD (*Unanimous consensus*)
  - 178 b. Making level of care recommendations (eg, outpatient versus residential)  
179 (*Unanimous consensus*)

---

<sup>a</sup> Universal drug testing is defined as screening all patients in a given setting regardless of clinical presentation or risk factors.

- 180 9. Drug tests should be ordered and interpreted:  
181 a. By clinicians who have the appropriate knowledge and scope of practice to  
182 consider the potential benefits and harms for the patient and limitations of the  
183 specific test used, including the potential for false positive or negative results,  
184 (*Unanimous consensus*) OR  
185 b. Following protocols established by clinicians who have this knowledge and scope  
186 of practice (*Unanimous consensus*)

187 Together, these recommendations encourage clinicians to apply drug testing thoughtfully,  
188 sparingly, and in alignment with patient goals.

189

## 190 **Patient Voice**

191 Research and patient input indicate that the impact of drug testing in SUD care depends heavily  
192 on trust and how testing is used.<sup>3</sup> A Patient Panel was engaged throughout the development of  
193 this Consensus Statement. The Patient Panel emphasized that drug testing can be experienced as  
194 paternalistic and stigmatizing rather than therapeutic, particularly when results are used  
195 punitively or not used to meaningfully inform treatment decisions. However, they noted drug  
196 testing can be beneficial when applied in a patient-centered manner—such as when requested by  
197 patients, used to support recovery goals, and interpreted alongside overall functioning rather than  
198 as a primary measure of treatment success.

## 199 **Introduction**

### 200 **Purpose**

201 The purpose of this Consensus Statement is to provide guidance on the effective use of drug  
202 testing in the identification of substance use and the clinical management of substance use  
203 disorder (SUD) or substance use related medical concerns.

### 204 **Background**

205 Drug testing—or analysis of a biological sample to detect recent exposure to substances—is a  
206 tool that provides information about an individual’s recent substance use. Test results can inform  
207 how clinicians manage and treat the patient and may be used therapeutically in SUD treatment  
208 (eg, as an element of contingency management (CM) and other incentive based clinical  
209 interventions).<sup>4-7</sup> However, there are limitations to the clinical utility of drug testing, along with  
210 notable potential harms to patients.<sup>8-13</sup> The potential harms and benefits must be carefully  
211 weighed when determining when and how to conduct drug testing for a given patient.

212 Drug tests are commonly misapplied or misinterpreted, which can contribute to patient harms  
213 and waste valuable healthcare resources.<sup>14</sup> National standards can help guide appropriate  
214 application and interpretation of drug testing in SUD treatment.<sup>15,16</sup> ASAM most recently  
215 provided guidance on this topic in a 2017 Clinical Consensus document on the appropriate use of  
216 drug testing in clinical addiction medicine.<sup>17</sup> Understanding has also shifted over the past decade  
217 around the impact of drug testing on patient engagement and retention in care.<sup>1,2</sup>

218 This update provides guidance applicable to drug testing in the context of clinical care with  
219 consideration for the rapidly changing drug supply and current best practices for patient-centered  
220 care.

### 221 ***Terminology***

222 Throughout this Consensus Statement we use the terms “presumptive” and “confirmatory” in the  
223 context of drug testing. Presumptive tests, sometimes referred to as screening tests, use methods  
224 with high sensitivity and low specificity and are used as a rapid indicator of the potential  
225 presence of a drug or metabolite. Presumptive testing is the most commonly used methodology  
226 for drug testing.

227 Confirmatory drug tests, sometimes referred to as definitive tests, use methods with high  
228 specificity that can identify specific drugs, their metabolites, and/or establish quantities. As such,  
229 positive results on a confirmatory test can be interpreted as conclusive. Gas or liquid  
230 chromatography combined with some form of mass spectrometry is the gold standard method in  
231 confirmatory drug testing. Confirmatory testing is often, but not always quantitative, measuring

232 the quantity of a particular compound in a sample. However, quantitative information is not  
233 always reported.

234 Drug testing is not intended to include drug checking, or analysis of the contents of a substance  
235 an individual intends to use.

236 This Consensus Statement also commonly refers to positive and negative drug tests. Positive  
237 tests are those that report detection of the presence of a target substance in a sample. Positive  
238 tests can be either a true positive or a false positive. A true positive drug test indicates that the  
239 patient providing the sample had a detectable amount of the targeted substance(s) in their system  
240 when the sample was collected. A false positive refers to the reporting of a positive drug or drug  
241 metabolite test result when that drug or metabolite is not present in the specimen.

242 Negative tests are those that do not report detection of the presence of a target substance in a  
243 sample. A true negative drug test does not mean that a patient has not used substances; it means  
244 that the patient has not used the substance(s) targeted by the test within the window of detection,  
245 or the amount remaining in the patient’s system is less than the test is capable of detecting. A  
246 false negative refers to the reporting of a negative drug or drug metabolite test result when that  
247 drug or metabolite is present in the specimen.

248 We also refer to expected and unexpected drug test results throughout this Consensus Statement.  
249 Expected test results refer to drug test findings that align with the patient’s self-report or known  
250 history. Unexpected test results refer to drug test findings that do not align with the patient’s self-  
251 report or known history. Unexpected test results may occur when a patient is unaware of or  
252 chooses not to report all the substances they have taken. They may also reflect false positive or  
253 false negative results.

#### 254 ***Clinical Uses and Limitations of Drug Testing***

255 Research is limited on the effectiveness of drug testing as a component of SUD treatment. Our  
256 systematic review of the literature (see [Methodology](#)) found no high quality studies  
257 demonstrating that systematic or universal drug testing improves patient outcomes. However,  
258 drug testing can provide helpful information that informs assessment of risks to the patient and  
259 others. Drug testing is commonly used in this context and can serve important clinical purposes,  
260 such as:

- 261 • assessing withdrawal risk
- 262 • objectively assessing substance exposure when clinical findings do not match patient  
263 self-report
- 264 • monitoring medication adherence
- 265 • helping patients understand which substances they have been exposed to
- 266 • monitoring substance use as a component of incentive based interventions (e.g., CM)
- 267 • monitoring progress on treatment goals related to substance use reduction or cessation
- 268 • detecting return to use to support rapid treatment plan adjustments

- 269       • providing a source of motivation and accountability for patients, when aligned with their  
270           goals<sup>21</sup>

271       As with any clinical test, the value of drug testing depends on whether it is performed and  
272       interpreted correctly. It is important that clinicians ordering and interpreting drug tests  
273       understand the limitations of available tests and have the knowledge and competency to interpret  
274       them correctly (see [Clinician Competencies](#)).

### 275       ***Potential Harms of Drug Testing***

276       In addition to the limitations of drug testing, clinicians should be aware of potential patient  
277       harms. Drug testing can be perceived as invasive, and positive test results can have significant  
278       negative consequences for patients, such as probation or parole revocation, child welfare system  
279       involvement, loss of child custody, and loss of employment or professional credentialing. These  
280       consequences can be destabilizing for patients and can disrupt the patient-clinician  
281       relationship.<sup>22-25</sup> Drug testing is often applied inequitably across race and ethnicity, leading to  
282       significant disparities in related harms (see [Health Equity](#)).

283       In addition, some SUD treatment programs inappropriately require a positive drug test prior to  
284       admission, leading to barriers in access to care (see [Drug Testing Limitations](#)). In addition,  
285       requirements for regular drug testing can interfere with patients’ work schedules or caregiving  
286       responsibilities, which can contribute to patient harms (e.g., loss of employment, stress).

287       Positive drug test results can also lead to adverse impacts on clinical care. Some SUD treatment  
288       programs may administratively discharge patients if there is evidence of return to use. In  
289       addition, positive test results can contribute to stigma and reduce the quality of care patients  
290       receive.<sup>26</sup> Positive test results may also lead patients to be denied medical services (e.g., heart  
291       valve replacements, organ transplants, loss of take-home methadone privileges). These harms  
292       sometimes occur in response to misinterpretation of true positive drug test results. For example, a  
293       clinician may interpret a true positive test for fentanyl as indicating the patient is continuing to  
294       use when the test reflects norfentanyl remaining in the patient’s systems for an extended period  
295       due to storage in fat cells after chronic use. Patient harms may also occur in response to false  
296       positive presumptive drug test results, which can have significant impacts on the patient-clinician  
297       relationship.<sup>27</sup> Fear of these and other drug testing related harms can deter patients from  
298       engaging in care at all.

299       Drug testing can also contribute to misattribution or confirmation bias, whereby a clinician  
300       assumes drug use is causing or contributing to a patient’s symptoms when the presence of the  
301       drug is an unrelated, incidental finding. This can lead to missed or delayed diagnoses and  
302       significant health harms, particularly in acute care settings. Coincidental drug test results can  
303       also contribute to stigma and discrimination in current and future healthcare encounters.<sup>28</sup>

304

## 305 **Scope of Consensus Statement**

306 This Clinical Consensus Statement provides guidance on the use of drug testing in the clinical  
307 management of patients with SUD or SUD-related medical concerns. It pertains to adults and  
308 adolescents and includes discussion of population specific considerations for pregnant and  
309 postpartum patients and individuals receiving SUD care in carceral settings. While drug testing is  
310 used in many contexts and settings, ASAM’s intent with this Consensus Statement is to focus on  
311 clinical settings. Workplace, forensic, and department of transportation (eg, roadside sobriety  
312 drug testing), as well as drug testing to monitor adherence to controlled medication (eg, opioid  
313 pain medication, stimulant medication for attention deficit hyperactivity disorder [ADHD]) are  
314 outside the scope of this document.

315 A glossary of terms used in this Guideline is included in [Appendix A](#). A summary of  
316 abbreviations and acronyms is included in [Appendix B](#).

## 317 **Intended Audience**

318 The intended audience for this guideline is clinicians using drug testing in the identification of  
319 substance use and the management of patients with or at-risk for SUD. This guideline is relevant  
320 to clinicians who practice in various settings, including SUD treatment settings, as well as  
321 primary care, mental health care, obstetric care, emergency departments, and acute care settings.  
322 Some recommendations only apply to specific settings (e.g., inpatient, residential, emergency  
323 department settings), as indicated in the narrative. This Consensus Statement may also be useful  
324 for healthcare administrators or policy makers to guide development of appropriate policies,  
325 protocols, and practice related to drug testing. However, this Consensus Statement is not  
326 intended to be a source of rigid laws, regulations, or policies related to drug testing. The  
327 recommendations contained in this document support flexible, patient-centered care.

## 328 **Qualifying Statement**

329 This document is intended to aid clinicians in their clinical decision-making and patient  
330 management. The document strives to identify and define clinical decision-making junctures that  
331 meet the needs of most patients in most circumstances. Recommendations in this document are  
332 not intended to substitute for independent clinical judgment based on the particular facts and  
333 circumstances presented by individual patients. Clinical decision-making should involve  
334 consideration of the quality and availability of expertise and services in the community wherein  
335 care is provided. In circumstances in which the document is being used as the basis for  
336 regulatory or payer decisions, improvement in quality of care and patient outcomes should be the  
337 goal. Clinicians should strive to make clinical decisions in partnership with patients. Patients  
338 should be informed of the risks, benefits, and alternatives to a particular intervention or test, and  
339 should be an active party to shared decision-making whenever feasible. Recommendations in this  
340 document do not supersede any federal or state regulation.

## 341 **Methodology**

### 342 **Committee Formation and Oversight**

343 ASAM’s Quality Improvement Council (QIC) and Clinical Practice Guideline Methodology  
344 Oversight Subcommittee (CPG-MOS) oversaw the development of this Consensus Statement.  
345 The QIC, working with a partner medical society (American College of Medical Toxicology-  
346 ACMT), oversaw the appointment of clinicians with broad subject matter expertise across  
347 addiction medicine and toxicology to the expert committee, representing regional and  
348 demographic diversity. A panel of individuals who have lived and living experience with drug  
349 testing in substance use treatment (the Patient Panel) provided input during development. See  
350 [Appendix C](#) for a description of the full methodology.

### 351 **Systematic Literature Review**

352 The following key clinical questions were identified to be addressed by the systematic review:

- 353 1. In individuals with a clinical suspicion of either substance use or SUD, does drug testing  
354 assist in the identification of substance use or SUD and change outcomes?
- 355 2. In pregnant individuals, does drug testing improve the identification of substance use or  
356 SUD or affect outcomes?
- 357 3. In individuals in outpatient SUD treatment settings, how does drug testing affect  
358 outcomes?
- 359 4. In individuals in residential SUD treatment settings, how does drug testing affect  
360 outcomes?
- 361 5. In individuals in hospital-based SUD treatment settings, how does drug testing affect  
362 outcomes?
- 363 6. In incarcerated individuals, how does drug testing affect outcomes?
- 364 7. How does the use of drug testing in clinical settings disproportionately affect  
365 marginalized populations?  
366

367 These questions informed development of a Population, Intervention, Comparator, Outcome  
368 (PICO) framework for identifying relevant research literature to answer each of the key clinical  
369 questions.

- 370 • **Population:** Adult (18 years or older) or adolescent (10 to 17 years) individuals  
371 undergoing care in any clinical setting (e.g., primary care, emergency departments, SUD  
372 treatment centers). Additional subpopulations for inclusion were 1) pregnant and 2)  
373 incarcerated individuals. We did not include studies focused on children under 10 years  
374 of age.
- 375 • **Intervention:** Drug testing for the purpose of identifying substance use in medical  
376 settings. Any intervention that includes drug testing as an active part of SUD treatment in

377 a clinical setting. However, if a study includes drug testing, but there is no clear clinical  
378 use, the study will be excluded.

- 379 • **Comparator:** No Drug testing
- 380 • **Outcome:** Substance use, treatment engagement and retention, adverse events, healthcare  
381 utilization (e.g., ED visits, hospital admission), and use of addiction medication.

382

## 383 **Recommendation Development**

384 The expert committee discussed the evidence and potential recommendations. A modified Delphi  
385 process was used for developing consensus.

386 The expert committee voted with one of the following options: agree, disagree, or abstain. Lack  
387 of response was counted as “absent”. Expert committee members were permitted to abstain only  
388 if they have a conflict of interest or lack expertise on the topic of the recommendation statement.  
389 Abstain votes reduce the denominator when calculating agree percent (level of consensus).

390 Level of consensus was calculated as follows:

- 391 • 100% consensus was designated as “**Unanimous consensus**”
- 392 •  $\geq 85\%$  consensus was designated “**Major consensus**”
- 393 •  $\geq 70\text{-}84\%$  consensus was designated “**Moderate consensus**”
- 394 • If less than 70% consensus was achieved, a recommendation was not made.

395 The expert committee discussed all draft recommendations that did not achieve unanimous  
396 consensus and in some cases proposed edits. When edits were proposed the expert committee  
397 voted on the updated recommendation statement. The expert committee engaged in multiple  
398 rounds of discussion and voting until all raised concerns were addressed and all included  
399 recommendations reached unanimous consensus.

400

401 The detailed Methodology can be found in [Appendix C](#). A list of expert committee members,  
402 their areas of expertise, and conflicts of interest are available in [Appendix E](#).

403 The consensus statements are accompanied by implementation considerations that provide  
404 guidance on how to implement the consensus statements. These include important contextual and  
405 patient-centered factors to consider for clinical decision-making.

## 406 **Informed Consent, Confidentiality, and Shared** 407 **Decision-Making**

408 Treatment engagement and outcomes are enhanced by patient collaboration and shared decision-  
409 making. Given the potential for negative consequences of drug test results, consent and  
410 confidentiality are critical to consider. Clinicians should educate patients on the reasons for  
411 recommended drug testing, anticipated clinical benefits, and potential harms.

412 At the federal level, the Health Insurance Portability and Accountability Act (HIPAA) protects  
413 the privacy of health information and medical records. Part 2 of Title 42 of the US Code of  
414 Federal Regulations (42 CFR Part 2) governs the confidentiality of health records from SUD  
415 treatment programs and clinicians.<sup>29</sup> Healthcare information is also subject to state regulations,  
416 which vary significantly across the country. Clinicians should provide clear and transparent  
417 information on the limitations of confidentiality of drug test information, particularly for  
418 pregnant and parenting patients and those who are involved with criminal justice or child welfare  
419 systems.

420 Although regulations on adolescent assent and consent for SUD treatment vary by state and may  
421 differ from those for medical or mental health treatment, seeking to obtain adolescent assent or  
422 consent for treatment is a best practice.<sup>30</sup> Clinicians should be aware that information may also  
423 be accessible to parents/guardians through payer documents. Clinicians should clearly  
424 communicate with adolescents, and parents/guardians when applicable, on the limits of  
425 confidentiality, and what information will and will not be shared.

## 426 **Considerations for Ordering a Drug Test**

### 427 *Recommendations for Considerations for Ordering a Drug Test*

- 428 1. The decision to order a drug test, presumptive or confirmatory, should be patient specific,  
429 considering (*Unanimous consensus*):
  - 430 a. How the results may inform clinical decision making (*Unanimous consensus*)
  - 431 b. The potential consequences for the patient, including but not limited to legal,  
432 financial, and occupational (*Unanimous consensus*)
- 433 2. Universal drug testing<sup>b</sup> for the sole purpose of screening for substance use is not  
434 recommended in any clinical population, including adolescents and pregnant patients.  
435 (*Unanimous consensus*)
  - 436 a. Screening for problematic substance use should primarily rely on self-report using  
437 validated screening tools. (*Unanimous consensus*)
- 438 3. Confirmatory drug testing should be considered when presumptive test results are  
439 unexpected or incongruent with patient history and the results will potentially inform  
440 significant clinical decisions. (*Unanimous consensus*)

### 441 *Implementation Considerations*

- 442 • Drug testing should typically be considered when there are inconsistencies between  
443 patient self-report and other parts of the assessment (e.g., patient's history and physical

---

<sup>b</sup> Universal drug testing is defined as screening all patients in a given setting regardless of clinical presentation or risk factors.

- 444 exam) and clarification is needed to inform development of an appropriate treatment  
445 plan.
- 446 • Clinicians should be aware of the potential adverse legal and social consequences of drug  
447 testing for patients. They should educate patients on the potential benefits and harms  
448 prior to testing, unless the patient’s medical condition prevents it.
  - 449 • Adult patients (and adolescent patients in some states<sup>c</sup>) have a right to refuse any  
450 treatment service, including drug testing, except in limited circumstances when they lack  
451 the capacity to consent. Clinicians should inform patients of the potential consequences  
452 of drug test refusal (e.g., criminal/legal, child custody, health plan coverage, etc.) but  
453 should not attempt to coerce patients into participating.
  - 454 • Clinicians should also consider ordering drug testing when requested by patients (eg, for  
455 accountability to self or others, such as family members or child welfare agencies).
  - 456 • Results of medical and psychosocial assessments should guide the process of choosing  
457 the type of drug test and specimen type, or matrix, to use.
  - 458 • Presumptive tests should not be relied upon when making decisions with significant  
459 clinical (e.g., changes in medications, transplant status, methadone take-home privileges)  
460 or non-clinical (e.g., child custody) implications for the patient.
  - 461 • Required reporting of drug test results to anyone other than the patient (e.g., to courts or  
462 child welfare agencies) should wait until confirmatory testing is completed as the results  
463 may lead to harm, including negative impacts on the patient or the clinician-patient  
464 relationship.
  - 465 • Clinicians should consider the clinical purpose of drug testing for the given patient and  
466 the selected test’s performance characteristics and window of detection when determining  
467 the appropriate specimen type and test frequency.
  - 468 • Decisions regarding drug testing scheduling, including random versus predictable timing,  
469 should be patient specific. See [Table 1](#) for additional information.

#### 470 ***Rationale***

471 The systematic review found no high quality studies demonstrating that systematic or universal  
472 drug testing improves patient outcomes. Recommendation #1 aligns with best practices in  
473 clinical medicine. The decision to use any tool in health care should be grounded in the  
474 principles of improved patient care and outcomes. To avoid wasting healthcare resources, testing  
475 should generally only be recommended when the results may impact clinical decision-making.<sup>d</sup>  
476 If clinicians do not have clearly defined goals for testing, then the test has low clinical value and  
477 generally should not be ordered.<sup>5,15</sup>

478 Clinicians should consider the potential benefits and harms of drug testing for a given patient  
479 when recommending drug testing. Clinicians should be aware of the range of possible negative

---

<sup>c</sup> See [Adolescent Consent and Confidentiality](#) Section

<sup>d</sup> Drug testing for forensic or surveillance purposes is beyond the scope of this document

480 consequences of drug testing and should educate patients on these risks. Patients should be  
 481 engaged in shared decision making and provide informed assent or consent prior to testing.

482 *Table 1. Potential Benefits and Risks of Drug Testing*

Potential Benefits	Potential Risks
Monitoring medication adherence	Perceived as invasive or paternalistic; erosion of trust between patient and clinician
Objective information on substance exposure during the tests window of detection	Life-altering consequences (eg, probation or parole revocation, loss of child custody, housing, employment or credentialing)
Awareness of potential drug-drug interactions	Denial of medical services (eg, heart valve replacements, organ transplants, loss of take-home methadone privileges)
Source of motivation and accountability for patients	Reduced retention in care/avoidance of healthcare
Monitoring progress towards substance use related goals	Misattribution or confirmation bias leading to missed or delayed diagnoses
	Misinterpretation of test results, either negative or positive, impacting care
	Stigma, discrimination

483  
 484 Confirmatory drug testing should be considered when presumptive test results are unexpected or  
 485 incongruent with patient history, and the results will potentially inform significant clinical  
 486 decisions. In some cases, a non-judgmental conversation with the patient regarding the  
 487 presumptive drug test results (See *Effective Implementation of Drug Testing in Clinical Practice*)  
 488 may clarify the patient’s history and prevent the need for confirmatory testing. As with the  
 489 decision to order presumptive testing, clinicians should consider how the results would  
 490 potentially impact clinical decision making, with consideration of the likelihood of receiving test  
 491 results in time to inform decision making, and the potential risks and benefits for the given  
 492 patient.

493 This Consensus Statement is designed to convey statements about drug testing as part of  
 494 appropriate clinical care. It is not an analysis of the cost effectiveness of drug testing using  
 495 various technologies or under various circumstances. However, inappropriate use of drug testing,  
 496 particularly confirmatory drug testing, can have extraordinary costs to the healthcare system and  
 497 at times the patients who are receiving care. As such, clinicians should be judicious in their  
 498 decisions to order confirmatory drug tests.

499 Some patients may find clinical benefit in the accountability of drug testing and may request it.<sup>22</sup>  
 500 Others may request drug testing to demonstrate their progress to others, such as family members,  
 501 employers, the child welfare agency, or probation or parole officers. Clinicians should consider  
 502 patient preferences in the context of potential clinical benefits, which may include direct impacts  
 503 on patient behavior as well as access to services (e.g., supportive housing) or avoiding harms that

504 could be destabilizing to the patient such as loss of child custody or incarceration. In some  
505 instances, there may be insufficient clinical justification to order tests requested by the patient.  
506 Patients may have the option of self-pay in these circumstances.

507 Universal drug testing is not recommended because it does not consider the specific benefits and  
508 risks for harm for individual patients. However, there may be some clinical settings where the  
509 prevalence of drug testing is high. For example, OTPs where regular drug testing is required by  
510 federal law or SUD treatment programs that utilizes CM or other incentive based interventions.

511 Self-reported substance use information collected using validated screening tools is generally a  
512 reliable method of identifying patient substance use (see [Appendix D](#)).<sup>31</sup> Drug testing can be a  
513 useful supplement to patient self-report as patients may be unaware of the composition of the  
514 substances they have used.

515 Clinicians often rely on drug testing because they question the reliability of self-reported drug  
516 use. While not a topic of focus for the systematic review, four of the included studies evaluated  
517 the concordance between self-report and biological drug testing.<sup>10,32-34</sup> A systematic review and  
518 meta-analysis of over 200 studies across varied settings found general high agreement between  
519 self-report and drug testing results, along with low false-omission rates.<sup>31</sup> The highest  
520 concordance was found in clinical trials, situations in which no consequences were anticipated  
521 for the reporting of use<sup>8</sup>, and when patients were informed in advance that biological testing  
522 would occur. Concordance has been shown to vary by substance type, with the highest  
523 concordance generally reported for tobacco and cannabis use.<sup>31,35-37</sup> Timing may also matter, as  
524 more recent use is reported less frequently than more distant use.<sup>31</sup> Studies have also shown that  
525 accuracy of self-report may be impacted by factors such as concern that accurate reporting might  
526 impede a patient's access to MOUD.<sup>36,38,39</sup>

527 In addition to a desire to avoid negative consequences of substance use disclosure, some patients  
528 may underreport substance use for multiple reasons, both intentional and unintentional. They  
529 may not accurately remember everything they have used in the given timeframe, or they may not  
530 know which substances were included in what they have taken. Patient responses may also be  
531 subject to a social desirability effect. A growing body of research suggests that patients may be  
532 more likely to respond accurately during computer based self-report compared with a clinician  
533 interview. Computerized self-interviews increase reporting of sensitive topics, including illicit  
534 drug use.<sup>40</sup> This method may reduce social desirability bias, as patients are able to give their  
535 responses to the computer rather than directly to a human.<sup>41</sup> Computerized versions of the  
536 Alcohol, Smoking, and Substance Involvement Screening Test (ASSIST) and Addiction Severity  
537 Index (ASI) are valid approaches to screen for and assess SUD.<sup>42,43</sup>

538

---

<sup>c</sup> As assessed by the purpose of data collection and how they would be used; drug tests in SUD treatment settings were categorized as having anticipated consequences.

539 *Drug Test Refusal*

540 Adult patients generally have a right to refuse any treatment service, including drug testing when  
541 they have decision making capacity. In some states, adolescents also have this right. Treatment  
542 programs should not attempt to coerce patients into participating. When a patient refuses a drug  
543 test, it should lead to a clinical conversation. Typically, the clinician will have a sense of the  
544 patient’s reason for refusal. For example, the clinician may have observed recent changes in  
545 behavior suggestive of a return to substance use, or the patient may be very uncomfortable with  
546 the sample collection process or pregnant and afraid of the potentially serious consequences of a  
547 false or true positive test.

548 Drug test refusal should be documented, along with the clinician’s interpretation of its clinical  
549 relevance for the given patient. Clinicians should work with each patient to explore denial,  
550 motivation, and actual use. As trust grows, clinicians can educate patients on the clinical reasons  
551 for drug testing and encourage those who have refused testing to participate in the future.

552

553 *Matrix Considerations*

554 Urine, blood, exhaled breath, saliva, sweat, nails, hair, and meconium are all biological matrices  
555 that are used in drug testing. Urine drug screening (UDS) is the most well-established and  
556 common form of drug testing in clinical settings.<sup>44</sup> However, patients may perceive UDS as  
557 invasive or embarrassing, particularly when observed. The availability of point-of-care tests, ease  
558 of collection, and the high concentrations of drugs and metabolites found in urine make lab  
559 testing and onsite screening simple.<sup>6,8,16</sup> The choice of matrix should be determined based on  
560 which one is best able to answer the clinical questions at hand. Although urine is the best  
561 established matrix in addiction treatment settings, other matrices provide different levels of  
562 sensitivity and specificity over different windows of detection. When multiple matrices could  
563 reasonably be used, clinicians should consider the patient’s preferences. For example, oral fluid  
564 testing is acceptable to most patients and may be preferred to UDS.<sup>45</sup>

565 **Effective Implementation of Drug Testing in Clinical**  
566 **Practice**

567 **Substance Use Disorder Treatment Settings**

568 *Recommendations for Effective Implementation of Drug Testing in Clinical Practice*

- 569 4. Drug testing should be conducted following trauma-informed principles of care unless  
570 the patient’s medical condition prevents this approach. As such, observed urine specimen  
571 collection is not recommended. (*Unanimous consensus*)

- 572 5. The frequency of drug testing should not be pre-determined; it should be individualized  
573 based on patient care needs. (*Unanimous consensus*)
- 574 6. Unless the patient’s medical condition prevents it, unexpected drug test results should  
575 prompt conversations with them and consideration of treatment plan updates, using a  
576 shared decision-making framework. (*Unanimous consensus*)
- 577 7. Unexpected drug test results should not be the sole basis for:  
578 a. Clinical decisions (*Unanimous consensus*)  
579 b. Administratively discharging a patient from clinical care (*Unanimous consensus*)

580

### 581 ***Implementation Considerations***

- 582 • Evidence-based strategies are available to determine validity of non-observed UDS  
583 • Clinicians should consider alternatives to UDS (e.g., oral fluid testing) if observed drug  
584 testing is necessary (e.g., court mandate).
- 585 • Clinicians should take a non-judgmental, non-confrontational approach to discussing  
586 unexpected test results with patients.
- 587 • Clinicians should seek to implement meaningful therapeutic responses to test results and  
588 implement them as quickly as possible.
- 589 • Drug testing can present opportunities to demonstrate support and build trust with  
590 patients.  
591 ○ Negative and expected test results should be positively reinforced.  
592 ○ Responding to positive drug test results non-punitively and without judgement  
593 can strengthen the therapeutic alliance.
- 594 • Drug testing should not be the sole method used for monitoring patient substance use and  
595 treatment outcomes; test results should be interpreted in the context of collateral and self-  
596 report and other indicators.
- 597 • Clinicians should be aware that results that are incongruent with patient self-report may  
598 be due to the patient being unaware of what they are taking due to adulterants in the drug  
599 supply.
- 600 • When making patient care decisions, clinicians should consider all relevant information,  
601 including the patient’s goals and preferences, rather than the results of drug testing alone.
- 602 • Although administrative discharge may be necessary in some instances—such as in  
603 response to behaviors that pose a risk of harm to other patients or staff—SUD treatment  
604 programs should minimize the practice.

605

606

607

608

609 ***Rationale***

610 *Frequency of Drug Testing*

611 Six studies identified in the systematic literature review addressed procedural aspects of drug  
612 testing in SUD treatment settings such as frequency, observed, and randomized testing.<sup>34,46-50</sup> A  
613 retrospective cohort study using data from a French health insurance database compared  
614 retention in treatment for patients who had completed at least one drug test to a control group  
615 (identified as having no drug test reimbursements).<sup>46</sup> Those who had at least one drug test during  
616 treatment were retained in treatment for an average of 100 more days. The authors noted  
617 significant limitations in the study, including selection bias based on which data were included in  
618 the database and confounders (eg, SUD severity) not included in the database and therefore not  
619 controlled for.

620 Two studies compared the impact of drug testing frequency on substance use and treatment  
621 retention.<sup>34,47</sup> A retrospective chart review of patients with OUD in outpatient treatment showed  
622 that individuals who were tested more frequently (biweekly, weekly, or more than weekly) were  
623 more likely to be retained in treatment one year later as compared to individuals who were tested  
624 less than monthly.<sup>47</sup> There were notable limitations in this study, such as lack of protocol for  
625 when to test and lack of randomization between frequency conditions. Additionally, those who  
626 are tested more often may have been offered more services, which could explain the observed  
627 relationship. Another study examined frequency of testing as a substance use deterrent and found  
628 no difference between weekly testing and random biweekly testing on substance use.<sup>34</sup> However,  
629 the participants were aware of which group they were assigned to.<sup>34</sup> Due to the limitations of  
630 these studies, the expert committee noted that they had limited value for informing a  
631 recommendation on the frequency of drug testing in SUD treatment.

632 Two studies surveyed SUD treatment professionals about their drug testing practices. Clinicians  
633 who prescribe buprenorphine and conducted UDSs on patients at every visit were more likely to  
634 terminate treatment compared to those who randomly drug tested, tested at fixed intervals, or did  
635 not drug test at all.<sup>48</sup> Frequent randomized testing, both alone and when combined with observed  
636 testing among OTPs, was associated with significantly reduced treatment retention beyond one  
637 year.<sup>49</sup> Both studies were survey-based with limited patient information, and confounders may  
638 have affected the data.

639 Random drug testing may be more effective for detecting substance use.<sup>51</sup> However, requiring  
640 patients to be available for random drug testing can be disruptive to their day to day  
641 responsibilities, including work, school, and caregiving responsibilities. The consensus of the  
642 expert committee is that the frequency of drug testing should be determined based on the  
643 individual patient's needs. The clinical questions and the likely risks and benefits for the given  
644 patient should drive decisions related to test frequency and scheduling strategy. Based on these  
645 questions, clinicians should look to the test's detection capabilities and windows of detection to  
646 help determine the frequency of testing.

647 *Trauma-informed care*

648 There is a high prevalence of psychological trauma among individuals with SUD.<sup>52</sup> The  
649 Substance Abuse and Mental Health Services Administration (SAMHSA)’s Treatment  
650 Improvement Protocol (TIP) 57, Trauma-Informed Care (TIC) in Behavioral Health Services  
651 provides guidance on preventing retraumatization during SUD treatment services.<sup>53</sup> The  
652 guidance notes that:

653       A key objective in TIC is to prevent retraumatization generated by intervention and  
654       treatment practices and policies. [...] Some staff and agency issues that can result in  
655       retraumatization include [...] obtaining urine specimens in a nonprivate and/or  
656       disrespectful manner.

657 Historically, observed urine drug testing has been common in SUD treatment settings to prevent  
658 specimen tampering. Observed urine drug testing is a procedure in which an observer watches a  
659 patient urinate into the specimen collection container with the intent of preventing tampering and  
660 specimen substitution. Over the past decade, there has been growing recognition of the negative  
661 impact on patients and the patient/clinician relationship.<sup>22,54-56</sup> As used in this document,  
662 observed urine drug testing is not intended to include specimen collection through an external  
663 (condom) or Foley catheter in acute care settings.

664 Two studies were included in the systematic review on the topic of observed urine drug  
665 testing.<sup>49,50</sup> The first study found an increase in opioid positive UDS when an OTP began  
666 requiring observed urine collection.<sup>50</sup> However, the pre-post study design and lack of accounting  
667 for potential confounders limited the utility of this study. The second study found reduced  
668 retention in treatment in OTPs that conducted more frequent observed and random drug tests  
669 compared to those conducting fewer observed or random tests.<sup>49</sup> This study was also of limited  
670 value, as it provided survey results with limited information on patients.

671 Observed urine drug testing may be uncomfortable for both patients and staff. This is particularly  
672 true for patients with a history of sexual trauma. Patients report that the process is embarrassing,  
673 degrading, stigmatizing, and disrespectful.<sup>22,56,57</sup> Established methods for detecting sample  
674 dilution, substitution, and adulteration including testing of pH, temperature, creatinine, and  
675 specific gravity, can determine validity of non-observed tests.<sup>58</sup> As such, observed urine  
676 collection is unnecessary and not recommended. If an observed sample is court mandated and  
677 must be taken, clinicians can consider other matrices such as oral fluid. Alternatively, the  
678 clinician can request that the mandating authority conduct such testing so the  
679 therapeutic relationship between the patient and clinician is not affected.

680 All settings providing care for patients with SUD should provide trauma informed care whenever  
681 possible. Trauma-informed drug testing involves:

- 682       • Engagement in shared decision-making and informed consent

- 683 • Respect for patient preferences and choices, including opting out of recommended drug  
684 testing
- 685 • Privacy during specimen collection (i.e., avoiding observed urine collection)
- 686 • Providing information on what to expect before the test
- 687 • Prioritizing patient dignity and respect throughout the process
- 688 • Non-judgmental, clinically focused responses to unexpected drug test results

689 There may be times in acute care settings where a patient’s medical condition prevents a fully  
690 trauma-informed approach. For example, a patient may be too acutely ill to participate in shared  
691 decision making and urine may be collected through a foley catheter. However, patients with  
692 decision making capacity should be given the opportunity to provide informed consent (or assent  
693 for patients under the age of 18).

#### 694 *Patient Centered Responses to Drug Testing*

695 When applied, drug testing should be used as a tool for supporting recovery rather than exacting  
696 punishment. When clinicians respond to drug testing punitively it can create an “us versus them”  
697 mentality and undermine trust in the patient/clinician relationship.<sup>3</sup> Demonstrating to patients  
698 that drug testing is a therapeutic, rather than punitive, component of treatment may require time  
699 and multiple conversations.

700 As with self-reported substance use, unexpected drug test results should be addressed as part of  
701 treatment. Unexpected drug test results refers to findings that do not align with the patient’s self-  
702 report or known history. Unexpected results may occur when a patient is unaware of or chooses  
703 not to report all the substances they have taken. They may also reflect false positive or false  
704 negative results.

705 Negative or expected test results present opportunities to demonstrate support and build trust  
706 between patients and clinicians and should be positively reinforced. Unexpected test results  
707 should prompt a non-judgmental clinical conversation. Patients should feel confident that  
708 programs will support them without judgment or punishment. Early in the treatment process,  
709 clinicians should discuss how they will respond to patients’ return to use, including through  
710 reassessment of their treatment plan and adjustments to the services and supports provided.

711 When discussing unexpected drug test results with patients, clinicians should acknowledge the  
712 limitations of the test and the potential for false positive results when applicable. These  
713 discussions should also acknowledge the potential negative consequences for the patient. It is  
714 critical to avoid blaming, shaming, or punishing the patient and to focus on an appropriate  
715 therapeutic response.

716 Drug testing can have significant negative consequences for patients who are pregnant or  
717 parenting, as well as for those involved with the criminal justice child welfare systems. Correct  
718 interpretation of results is particularly important in these instances, and confirmatory testing  
719 should be used to confirm any findings that do not align with the patient’s self-reported use.

720 Clinicians should interpret drug test results in the context of the patient’s broader clinical picture  
721 (eg, physical and mental health, self-reported use, functioning, preferences) and should not rely  
722 on drug test results alone to make significant clinical decisions. Interpretation and response to  
723 unexpected drug test results should also consider the patient’s treatment goals. Each patient  
724 enters treatment with diverse needs and at different stages of readiness to change. Some patients  
725 may be striving for abstinence from all substances. Others may be seeking to reduce use,  
726 improve health and functionality, or discontinue use of some substances but not others.

727 **\*\*Start Box\*\***

## 728 **Drug Testing in Contingency Management Interventions**

729 Contingency management (CM) is an evidence-based psychosocial intervention that uses  
730 rewards or incentives to reinforce positive behavior changes, including treatment participation,  
731 medication adherence, and reduced substance use.<sup>59-68</sup> CM is effective for reducing substance use  
732 across various substances<sup>59,60,69-71</sup> and populations, including patients with comorbid psychotic  
733 disorders,<sup>72</sup> patients on MOUD,<sup>59</sup> and pregnant patients.<sup>73</sup> CM is particularly effective for  
734 stimulant use disorder, an SUD for which there is currently no FDA approved medication.<sup>71,74,75</sup>

735 CM interventions include multiple components, and the effects of each component individually  
736 are not well understood. Drug testing is often used within the context of CM to monitor  
737 substance use, with rewards contingent on a negative drug tests, and medication adherence, with  
738 rewards contingent on test results positive for buprenorphine metabolites, for example, There is  
739 evidence that the effects of CM exceed what is expected based on incentive value alone.<sup>75</sup> A  
740 recent systematic review evaluated predicted versus observed effects in CM studies targeting  
741 single substance use. For cocaine use, eight out of 10 studies significantly outperformed the  
742 predicted effect. This did not extend to cigarette use, with only six of 19 studies outperforming  
743 the predicted effect. These results indicate that at least for cocaine use, there are factors other  
744 than incentives contributing to the success of the intervention. Drug testing in the context of CM  
745 has strong patient acceptability.<sup>76,77</sup> The cumulative research suggests that interventions, such as  
746 CM, that incorporate drug testing as part of a patient-centered, non-punitive therapeutic incentive  
747 program may be beneficial to patients.

748 See [Appendix D](#) for resources to assist in developing CM interventions.

749 **\*\*End Box\*\***

750 As discussed in ASAM’s *Clinical Consideration for Engagement and Retention of Nonabstinent*  
751 *Patients in Substance Use Treatment*<sup>78</sup>, at times, patients are administratively discharged from  
752 SUD treatment programs if they resume substance use.<sup>79-81</sup> In essence, patients are denied  
753 admission to and/or discharged from care for exhibiting characteristics of the disease for which  
754 they need treatment. These practices are inconsistent with the current understanding of addiction  
755 as a chronic disease.<sup>81,82</sup>

756 Administrative discharge refers to the termination of treatment services when a patient fails to  
757 adhere to a program’s rules. Addiction is a chronic illness and periods of return to use are  
758 expected. Return to use, identified through patient report or drug testing, should prompt a clinical  
759 discussion with the patient and consideration of whether updates are needed to their treatment  
760 plan. A top priority in the care of every patient should be supporting continued engagement in the  
761 continuum of care. Administrative discharges should be a last resort, for example, when safety  
762 concerns for other patients or staff cannot be otherwise mitigated.<sup>78</sup>

763

## 764 **Acute Care Settings**

### 765 *Implementation Considerations*

#### 766 *Rationale*

767 The systematic review included ten studies evaluating the impact of drug testing on patient  
768 management in acute care settings.<sup>32,83-91</sup> The studies included retrospective case review or  
769 cohort studies, or low-quality experiments with low certainty of evidence taking place in  
770 emergency departments (EDs), psychiatric EDs, and trauma centers. The findings overall suggest  
771 that drug test results did not alter acute management,<sup>32,83,86,87</sup> healthcare utilization,<sup>88,89</sup> or  
772 mortality in these settings.<sup>91</sup>

773 Two studies found a relationship between drug test results and acute care management in patients  
774 with suspected intentional overdose.<sup>84,85</sup> However, while there is likely to be overlap between the  
775 population of individuals using substances for suicide attempts, it is distinct from our population  
776 of interest. In addition, one study found that patients, with or without an OUD diagnosis, testing  
777 positive for fentanyl using presumptive tests were more likely to be prescribed naloxone than  
778 those without a positive test.<sup>90</sup> Many of these studies noted limitations, including that the results  
779 of the tests were frequently not received prior to care decisions, and lack of information on the  
780 outcomes of care decisions. Overall, the expert committee determined that the quality of  
781 evidence was weak and of limited value in determining the appropriate use of drug testing in  
782 acute care settings.

783 While drug testing has limited utility in acute care management (e.g., because presumptive  
784 results generally do not change patient management and are often limited in scope [e.g., do not  
785 cover all substances of interest] and confirmatory tests contribute to significant healthcare costs  
786 and are typically not received in time to inform clinical decision making) and may contribute to  
787 harms, there are instances where testing may be useful. For example, drug testing can help  
788 identify patients who are at risk for significant substance withdrawal which may present direct  
789 medical risks or complicate management of other health conditions. Testing may also help clarify  
790 the substances contributing to withdrawal when a patient is not responding as expected to  
791 withdrawal management for opioids or other substances. It may also identify substances in a

792 patient’s system that may interact with prescribed medications. Clinicians may also use drug  
793 testing to rule out intoxication or withdrawal as a factor contributing to undiagnosed or  
794 undifferentiated medical problems. In these instances, it is critical for clinicians to understand the  
795 limitations of the test used and to avoid over-interpreting a negative test result or assuming a  
796 positive test result is the cause of clinical findings. As discussed throughout this Consensus  
797 Statement, clinicians should have a clear clinical question when recommending a drug test and  
798 understand how the results can benefit the patient.

## 799 **Health Equity**

800 Drug testing is often applied inequitably. Black and Hispanic patients are more likely to be tested  
801 during pregnancy and at delivery than White patients.<sup>92-96</sup> For patients presenting to the ED with  
802 chest pain, Black and male patients are more likely to be tested than White and female patients.<sup>97</sup>  
803 Black individuals are more likely to be prescribed methadone than buprenorphine, which has  
804 stricter monitoring policies, including drug testing at least 8 times per year.<sup>98</sup>

805 Differential testing leads to inequities in related consequences. More frequent drug screening is  
806 associated with increased administrative discharges.<sup>99</sup> In addition, Black newborns are four times  
807 more likely to be referred to CPS than White newborns, despite similar rates of detected maternal  
808 substance use.<sup>100</sup> Trauma patients with a positive drug screen are more likely to be referred to  
809 mental health services if they are White or insured compared to non-white patients.<sup>101</sup> For  
810 justice-involved populations, a positive drug test can be a technical violation of parole. In New  
811 York, Black individuals were found to have been incarcerated for a technical violation five times  
812 as often as White individuals.<sup>102</sup> These studies are all cross-sectional or retrospective and thus are  
813 associative in nature, limiting interpretation.

814 It is important that clinicians and healthcare administrators are aware of these inequities in the  
815 application and consequences of drug testing. As clinicians and programs develop policies and  
816 procedures related to drug testing, they should consider how they may contribute to inequitable  
817 application and related harms and how to mitigate these risks.

818

## 819 **Drug Testing Limitations**

### 820 *Recommendations for Drug Testing Limitations*

- 821 8. Drug test results alone should not be used as the sole basis for:
- 822 a. Diagnosing a SUD (*Unanimous consensus*)
- 823 b. Making level of care recommendations (eg, outpatient versus residential).
- 824 (*Unanimous consensus*)

825 ***Implementation Considerations***

- 826       • Clinical criteria that consider the patient’s medical and psychosocial needs (eg, *The*  
827       *ASAM Criteria*) should be used when making level of care recommendations for patients  
828       with SUD.
- 829       • While a diagnosis of SUD or substance withdrawal is typically necessary, a drug test with  
830       a positive result should not be required for admission into SUD treatment at any level of  
831       care.  
832

833 ***Rationale***

834 The systematic review identified three studies related to using drug testing for SUD diagnoses  
835 across settings and populations.<sup>10,33,103</sup> One study considered how different SUD assessment  
836 methods, including patient self-report, collateral reports, hair and urine drug tests, and clinician  
837 ratings in the context of validated substance use scales, compared with use of the Structured  
838 Clinical Interview for DSM-IV disorders (SCID) in a community based sample of adults with  
839 schizophrenia.<sup>103</sup> Clinician ratings demonstrated the highest accuracy, and combining measures  
840 resulted in small increases in accuracy. Drug testing did not improve diagnostic accuracy.  
841 Limitations included lack of interrater reliability information for SCID diagnoses and clinician  
842 ratings, and drug testing data was not available for all participants.

843 One retrospective chart review examined if UDS improves diagnostic accuracy of substance-  
844 related diagnoses for patients receiving a psychiatric consult in the ED.<sup>33</sup> When considering drug  
845 history as part of routine psychiatric assessment, a positive drug screen did not relate to the odds  
846 of receiving a substance-related diagnosis. A similar retrospective cohort study examined the  
847 utility of drug testing during an outpatient SUD assessment for making treatment  
848 recommendations and determining diagnosis.<sup>10</sup> Fourteen out of 174 (8%) of individuals reported  
849 no recent drug use but tested positive on the drug test. A diagnosis was changed for only one of  
850 those individuals. This study had significant limitations, as it was a retrospective chart review,  
851 and it was unknown whether the drug test results were viewed prior to the consultation. Both  
852 studies were largely limited to adult patients who were able to provide medical history. The  
853 expert committee noted significant limitations across these studies but agreed with the direction  
854 of the findings that a drug test adds limited additional value to diagnosis by a trained clinician.

855 When diagnosing SUD, clinicians consider substance use information in the context of a  
856 patient’s history, psychosocial assessment, physical examination, and available collateral  
857 information.<sup>15,104,105</sup> A positive drug test is neither necessary nor sufficient to establish a  
858 diagnosis of SUD. When conducted, drug testing should not be relied upon as the sole measure  
859 of a patient’s substance use. Results should be interpreted in the context of the patient’s self-  
860 reported substance use whenever possible.

861 Some programs require a positive drug test prior to treatment admission or medication initiation,  
862 perhaps considering recent substance use as a proxy for SUD. However, requiring a positive test  
863 can unintentionally encourage substance use prior to treatment initiation. In addition, a positive  
864 drug test does not explain whether a patient’s signs or symptoms are caused by the presence of a  
865 substance. Nor does it inform an understanding of the patient’s patterns of use over time or  
866 severity of the SUD.

867 It is also important to correctly interpret negative drug test results. An accurate negative test  
868 result does not rule out substance use, nor does it rule out SUD, which can be present without  
869 recent substance use. For example, in addition to numerous analytical and temporal factors that  
870 can result in a negative drug test, a patient may have overdosed recently and avoided use in the  
871 interim with support from their family. They may have a severe SUD requiring high intensity  
872 treatment. Requiring a positive drug test before admission to care or to high intensity outpatient  
873 or residential care could deny patients admission to the appropriate care setting and put them at  
874 significant risk for harm.

875

## 876 **Clinician Competencies**

### 877 *Recommendations for Clinician Competencies*

- 878 9. Drug tests should be ordered and interpreted:
- 879 a. By clinicians who have the appropriate knowledge and scope of practice to  
880 consider the potential benefits and harms for the patient, and limitations of the  
881 specific test used, including the potential for false positive or negative results,  
882 *(Unanimous consensus)* or
- 883 b. Following protocols established by clinicians who have this knowledge and scope  
884 of practice. *(Unanimous consensus)*

885

### 886 *Implementation Considerations*

- 887 • Clinicians ordering drug tests should be aware that all tests have some rate of false-  
888 positive and false-negative outcomes and know the limitations of the matrix used and  
889 test(s) ordered.
- 890 • Clinicians should determine the questions the test is intended to answer before the test is  
891 selected and should ideally have a non-punitive plan for what to do with the results
- 892 • When test results are unclear, clinicians should communicate with the testing laboratory  
893 or a medical toxicologist to properly interpret them.

894

895 ***Rationale***

896 Appropriate selection and interpretation of drug tests can be complex and require a thorough  
897 understanding of pharmacokinetics—how the body processes substances—including the  
898 absorption, distribution, metabolism, and elimination of the substances used and their  
899 metabolites.<sup>7,8,15</sup> The presence of a drug or metabolites in the biological matrix indicates prior  
900 exposure only and generally cannot provide more information about the pattern or frequency of  
901 use.<sup>16,104</sup> In addition, test selection is complicated by the rapidly changing drug supply. Many  
902 novel synthetic substances, as well as substances that are now ubiquitous in the drug supply (e.g.,  
903 fentanyl, synthetic cannabinoids) are often not detected by standard presumptive tests.<sup>16,105</sup>

904 The timing of sample collection and matrix selection is important. Substances have a predictable  
905 rate of elimination from the body, but the rate varies across matrices (e.g., urine, blood, hair).  
906 Some drug tests may be better at detecting a substance in a particular matrix, which means it is  
907 important for clinicians to understand the test’s performance characteristics, such as sensitivity  
908 and specificity, to gauge the possibility of false negatives or positives. But even the most  
909 effective test under ideal circumstances can only measure the presence of a substance within the  
910 window of detection.

911 Clinicians who order drug tests should have the appropriate training and scopes of practice to  
912 select an appropriate test and interpret it correctly.<sup>106</sup> Clinicians without sufficient competency in  
913 this area can order drug tests following protocols established by clinicians who have this  
914 knowledge and scope of practice. Drug testing protocols should be patient centered, outlining the  
915 clinical circumstances in which specific drug tests are appropriate for a given patient.

916 Many clinicians have significant knowledge gaps related to drug testing. A recent study  
917 evaluating clinicians specializing in pathology, emergency medicine, primary care, and internal  
918 medicine found significant knowledge gaps in UDS interpretation. Misunderstanding related to  
919 opioid exposure, metabolism, and immunoassay cross-reactivity were among the most clinically  
920 significant gaps.<sup>106</sup> Another study found that while addiction specialists are generally  
921 knowledgeable about urine drug testing and its application, there are important educational gaps  
922 pertaining to the relative accuracy of and differences between immunoassay [IA] and liquid  
923 chromatography-tandem spectrometry [LC-MS/MS].<sup>58</sup> Clinicians are likely to underestimate the  
924 accuracy of confirmatory LC-MS/MS testing.<sup>107</sup>

925 Bias may contribute to misinterpretation of presumptive drug tests. Patient factors including  
926 treatment adherence, comorbid mental health conditions, treatment history, legal status, and race  
927 may impact clinicians’ perception and interpretation of the UDS results.<sup>107</sup>

928 Drug testing results can be misinterpreted if clinicians are unaware of or mistaken about the  
929 substances measured in the test.<sup>5,14</sup> Clinicians can also misinterpret the results or put too much  
930 emphasis on the UDS if they do not recognize that the results are a snapshot of substance use

931 over a short period of time, that return to use is part of the expected course of SUD, or the need  
932 to look at drug test results in the context of the patient’s treatment goals.<sup>14,15,104</sup>

933 Educational interventions are effective for improving clinician accuracy in drug test  
934 interpretation.<sup>108</sup> Drug testing laboratories are a critical source of support for drug test  
935 interpretation.<sup>105,109-112</sup> Ideally, laboratory staff should be proactive in educating physicians of  
936 changes in drug testing and new drug screening methods or by providing reports on the potential  
937 and occurrence of false positive results.<sup>110</sup> Laboratory-generated urine toxicology interpretation  
938 service for clinicians prescribing chronic opioid therapy can help clinicians interpret results more  
939 accurately, quickly, and confidently.<sup>111</sup> Concerningly, in a survey of clinicians, more than 30%  
940 reported that they would seek UDS information from the internet or peers rather than clinical or  
941 laboratory experts.<sup>106</sup> Physicians can consider obtaining training and certification as a Medical  
942 Review Officer (MRO). MRO training, regulated by the U.S. Department of Transportation,  
943 prepares physicians to “provide quality assurance review of the drug testing process for the  
944 specimens under [their] purview, and determine if there is a legitimate medical explanation for  
945 laboratory confirmed positive, adulterated, substituted and invalid drug test results.”<sup>113</sup>

## 946 **Population Specific Considerations**

### 947 **Pregnant Patients**

948 Many principles of drug testing for a general population apply to pregnant patients. However,  
949 there are some important factors that deserve unique consideration before recommending drug  
950 testing for a pregnant patient. The American College of Obstetricians and Gynecologists  
951 (ACOG) recommends drug testing:

952 [Drug testing should] be performed only with the patient’s consent and a positive test not  
953 be a deterrent to care, a disqualifier for coverage under publicly-funded programs, or the  
954 sole factor in determining family separation.<sup>114</sup>

955 The systematic review identified four papers related to drug testing in pregnant patients.<sup>115-118</sup>  
956 Two of the papers found that universal, rather than risk-based UDS may identify more infants at  
957 risk for Neonatal Opioid Withdrawal Syndrome (NOWS).<sup>115,117</sup> Another study comparing patient  
958 self-reported substance use during their first prenatal visit with drug test results suggested that  
959 universal testing may detect substance use more often than clinician opinions or patient self-  
960 report.<sup>118</sup> Overall, universal screening resulted in 32 positive tests out of 237 UDSs, while 16 out  
961 of 230 patients self-reported substance use, and 12 positive tests were obtained based on patient  
962 specific orders. However, the authors did not present statistical analyses of their findings.  
963 Alternatively, Wood 2019 suggested that universal UDS in a low-risk population is not a cost-  
964 effective way to detect maternal drug use.<sup>116</sup> These papers were judged to be low quality due to a

965 substantial amount of missing data<sup>118</sup> and poor study design<sup>116</sup> including single group  
966 cohorts.<sup>115,117</sup>

967 Given the mixed findings, high risk of harm, and that, in the experience of the expert committee,  
968 universal screening is often implemented in biased ways, the committee recommends that drug  
969 testing recommendations for pregnant patients should be patient specific, considering each  
970 patient's potential benefits and risks. Clinicians should be aware of the adverse legal and social  
971 consequences of detecting substance use among pregnant women. They should familiarize  
972 themselves with local and state reporting requirements before conducting a drug test and relay  
973 this information to their patients before conducting a drug test.

974 Our systematic review identified seven papers on risk-based UDS in pregnant patients.<sup>94,119-124</sup>  
975 These seven papers evaluated the usefulness of different indications for UDS during pregnancy  
976 to identify substance use. The list of included indications varied across studies. History of  
977 cannabis use was not a good predictor of other substance use in two retrospective studies.<sup>119,120</sup>  
978 The committee anecdotally noted that isolated cannabis use does not typically result in other  
979 substances being identified in UDS. Five of these papers found that history of substance  
980 use (including tobacco use) was associated with a positive UDS.<sup>94,119,121,122,124</sup> Obstetrical factors  
981 (eg, placental abruption) tended not to be predictive.<sup>94,121,123</sup> Two papers reported a positive  
982 relationship between limited prenatal care and a positive UDS,<sup>94,124</sup> while one did not find a  
983 relationship.<sup>119</sup> Lastly, Son 2018 reported a positive relationship with *no* prenatal care and a  
984 positive UDS.<sup>121</sup> The committee noted that fear of drug testing and its consequences may lead  
985 patients with SUD to avoid prenatal care, increasing risks for the maternal-fetal dyad.

986 Three qualitative studies consistently found that pregnant and post-partum individuals who used  
987 substances were afraid of attending prenatal appointments for fear of legal consequences such as  
988 being reported to the child welfare agency for substance use and overall fear of identification of  
989 substance use.<sup>125-127</sup> Many clinicians are unaware of the outcomes for the maternal-fetal dyads  
990 that were reported under mandatory reporting policies while others may be conflicted about  
991 reporting pregnant patients.<sup>128,129</sup> The committee anecdotally noted that medications for OUD  
992 (i.e., buprenorphine or methadone) may be misinterpreted as a positive opioid UDS in some  
993 cases and may inappropriately trigger child welfare reporting. The committee also questioned the  
994 need to obtain a UDS when substance use is self-reported.

995 Recent systematic reviews identified racial and ethnic disparities in the use of UDS for pregnant  
996 patients.<sup>130,131</sup> Black mothers are more likely to be drug tested during pregnancy,<sup>92,132</sup> and at  
997 delivery,<sup>93-96</sup> for the indication of cannabis use,<sup>119,120</sup> and for other non-substance use history  
998 indications such as pregnancy complications (eg, abruption, hypertension, preterm labor).<sup>123</sup>  
999 Both American Indian/Alaska Native (AI/AN) and Hispanic mothers were also more likely to  
1000 have a UDS at delivery for the indication of cannabis use.<sup>120</sup> Native Hawaiian or Pacific islander,  
1001 Hispanic, and other non-White patients are more likely to be tested at delivery.<sup>94,95,122</sup> These

1002 studies were retrospective and prospective cohort and cross-sectional in study design and thus  
1003 cannot establish causality for these relationships.

1004 Our literature search identified three papers that utilized a standardized protocol to increase  
1005 equity in drug testing during pregnancy.<sup>133-135</sup> Two of these papers identified that standardized  
1006 protocols may help reduce disparities in UDS and child welfare reporting.<sup>134,135</sup> However, the  
1007 third paper suggested that a standardized protocol may not reduce disparities in child welfare  
1008 reporting, as they found no changes in child welfare reporting after the protocol was  
1009 implemented as compared to hospitals that did not implement the protocol.<sup>133</sup> The committee  
1010 limitations of standardized protocols and recommended clinicians carefully consider the  
1011 indicators for testing with attention to the potential for biased application and related harms. See  
1012 the [Health Equity](#) section for further discussion.

1013 Multiple national guidelines recommend that clinicians obtain informed consent before drug  
1014 testing during pregnancy.<sup>136-138</sup> One study found that consent for UDS was not commonly  
1015 documented at the time of delivery, however having a formal consent policy did improve the  
1016 likelihood of documenting consent.<sup>139</sup>

### 1017 ***Infant Drug Testing***

1018 The systematic review identified two papers comparing maternal UDS to infant drug testing (i.e.,  
1019 meconium or umbilical cord blood testing).<sup>140,141</sup> However, the papers had mixed results; Bailey  
1020 2024 sought the best method to detect infants with NOWS, while Gersch 2023 assessed maternal  
1021 UDS versus umbilical cord testing.<sup>140,141</sup> The committee noted that non-urine tests have a much  
1022 longer process time, and results may not be back before the infant is discharged. Both studies had  
1023 a low certainty of evidence, and neither provided a clear answer to the best testing matrix. The  
1024 committee noted that there may sometimes be discrepancies between maternal and infant UDS  
1025 due to metabolism, differences in matrices, and differences in types of testing.

1026 Drug testing in an infant may have some clinical utility, such as when an infant is not responding  
1027 to treatment. The committee emphasized that drug testing should not be used as a proxy for  
1028 infant safety; evaluating the safety of the home is separate from understanding parental substance  
1029 use or SUD.

1030 Meconium drug testing is commonly required by child welfare agencies. These tests typically  
1031 detect drug use in the second and third trimesters and cannot differentiate between remote (e.g.,  
1032 months ago) and recent use. It is important for clinicians to understand the limitations of this test  
1033 matrix and to share evidence of the patient’s treatment progress with the child welfare agency  
1034 when applicable and permissible. Clinicians may also recommend urine drug testing during the  
1035 third trimester if the patient expects a positive meconium test and wishes to document expected  
1036 drug test results (i.e., negative for illicit substance use, positive for medication metabolites). A  
1037 series of expected UDS results during the final months of pregnancy can be one piece of data to  
1038 reflect how the mother is doing overall with her SUD recovery.

1039 Evidence suggests drug testing and consequences are inequitably applied to non-White  
1040 newborns. Black and other non-White newborns were more likely to have a drug test at birth, as  
1041 compared to White newborns.<sup>123,142</sup> Similarly, Black and AI/AN newborns were more likely to be  
1042 referred to child welfare, as compared to White newborns following a positive drug test.<sup>24,100,143</sup>  
1043 See the [Health Equity](#) section for further discussion.

1044

## 1045 **Justice-Involved Individuals**

1046 Drug testing is commonly applied in carceral settings and community corrections for both  
1047 clinical and correctional purposes. This Consensus Statement is focused on the clinical  
1048 application of drug testing. Drug testing for correctional purposes is outside of the scope of this  
1049 document. However, drug testing justice-involved individuals for healthcare purposes is in  
1050 scope.

1051 Standards of care for the management of SUD do not differ for justice involved patients.  
1052 However, these patients often have unique risks for harm that should be considered when  
1053 recommending drug testing. It is important for clinicians to understand these risks and educate  
1054 justice-involved patients about the limitations of confidentiality, and when test results may be  
1055 shared with outside entities without consent.

1056 Four studies examined the relationship between the frequency of drug testing and substance use  
1057 and functional outcomes such as employment, education, and criminal behavior across prison,  
1058 probation, and parole populations.<sup>144-147</sup> However, the outcomes evaluated in these studies  
1059 largely focused on non-clinical outcomes (eg, prison safety, recidivism), and, in many cases it  
1060 was unclear whether drug testing was conducted for custodial testing versus clinical purposes. As  
1061 such they had limited utility for the purpose of this Consensus Statement.

1062 Sometimes clinicians are asked to share test results with outside entities, such as social services  
1063 agencies or the criminal justice system. The expert committee recommended clinicians keep test  
1064 results confidential to the extent permitted by law and use caution when sharing test results with  
1065 outside entities. Clinicians should ensure that the patient has given informed consent for sharing  
1066 test results unless disclosure is required by law. Even when patients have authorized the release  
1067 of test results, clinicians should be mindful of the potential consequences. Unexpected positive  
1068 test results should be confirmed with a confirmatory test, although it may be appropriate to share  
1069 presumptive results when they are negative. When sharing presumptive test results, clinicians  
1070 should ensure that they are clearly labeled “presumptive.” Clinicians should report clinical  
1071 progress along with test results. Clinicians may also have a role in helping probation and parole  
1072 officers accurately interpret drug test results.

1073 There are significant racial and ethnic disparities in technical violations of probation and parole,  
1074 resulting in reincarceration. It is currently unknown how inequitable drug testing may contribute  
1075 to these disparities.<sup>151</sup>

1076

## 1077 **Adolescents**

1078 This Consensus Statement is focused on the clinical application of drug testing. School based  
1079 drug testing is outside the scope of this document. The general principles of clinical drug testing  
1080 for adolescents are the same as those for adults. However, there are some important factors with  
1081 this population that deserve unique consideration before deciding when and how to drug test an  
1082 adolescent.

1083 Two studies in the systematic review included adolescents. The first assessed substance use  
1084 frequency in adolescents who were in and out of treatment throughout a 9-month period.<sup>152</sup>  
1085 Every 3 months, adolescents were grouped into one of four groups (residential, outpatient,  
1086 biological testing only, or no treatment), depending on the program they were in during the 3-  
1087 month period. Drug testing (without additional outpatient or residential treatment) decreased  
1088 substance use frequency, as compared to no treatment. The second assessed opinions on drug  
1089 screening and compared self-reported substance use to drug test results.<sup>34</sup> Adults were more  
1090 likely than adolescents to agree with the statement “drug testing is an effective way to prevent  
1091 drug use in addiction treatment.” Adolescents were more likely than adults to self-report their use  
1092 during treatment. Data related to concordance of self-report and drug test results were pooled  
1093 across adults and adolescents, and thus not reported for adolescents alone. The expert committee  
1094 concluded that while the findings suggest some usefulness in monitoring after treatment, these  
1095 studies lack sufficient data to inform proper drug testing practices in adolescents.

1096 As with adult patients, drug testing services may be appropriate to support an adolescent’s  
1097 individual treatment plan as needed. Clinicians should consider the potential benefits and risks  
1098 for the adolescent when recommending drug testing.

1099 The American Academy of Pediatrics cautions against involuntary drug testing in adolescents. In  
1100 their recommendation on *Testing for Drugs of Abuse in Children and Adolescents*, they state<sup>153</sup>:

1101 Voluntary drug testing may be a useful part of an assessment when a parent, clinician, or  
1102 other adult suspects recent or ongoing drug use on the basis of observed symptoms. Like  
1103 any other laboratory procedure, drug testing should be an adjunct to a thorough history  
1104 rather than a replacement. In cases in which an adolescent denies use, a positive drug test  
1105 result may afford an opportunity to begin an honest conversation.

1106 When there is concern for substance use or SUD in an adolescent, clinicians can use drug testing  
1107 as part of a SUD assessment. However, as with adults, drug testing of adolescents should not be

1108 used in isolation; it should be considered in the full context of their self-reported use, clinical  
1109 presentation, collateral information, and functioning.

### 1110 *Adolescent Consent and Confidentiality*

1111 Drug testing adolescent patients without their assent or consent is not appropriate, except in  
1112 emergency situations (e.g., accidents, suicide attempts, and seizures) when the test results may  
1113 inform immediate clinical decision making. If an adolescent refuses to consent to a drug test, the  
1114 clinician should clearly document refusal and continue to evaluate the possibility of SUD  
1115 through other methods and refer the patient to a specialist with additional mental health or  
1116 substance use expertise.

1117 As discussed in the Adolescent and Transition Aged Youth volume of *The ASAM Criteria*<sup>154</sup>:

1118 Confidentiality around drug testing is often a challenging area in adolescent SUD  
1119 treatment. Adolescents may be reticent to consent to drug testing if their family may have  
1120 access to test results, and families may be unhappy if they do not have access to this  
1121 information. As with all adolescent health information, specific requirements vary across  
1122 states. Clinicians should have discussions with patients and families before drug testing  
1123 to outline who will have access to test results, establishing clear expectations at the  
1124 outset. Even when state regulations do not require adolescent consent, clinicians should  
1125 seek adolescents' assent, explaining how drug testing will be used to guide their  
1126 treatment.

1127 Privacy and confidentiality of adolescent health information are governed by both federal and  
1128 state regulations.<sup>30,155</sup> For adolescent health records, federal privacy regulations (i.e., the Health  
1129 Insurance Portability and Accountability Act [HIPAA and 42 CFR Part 2) generally align with  
1130 state laws such that if a minor has legal authority in their state to obtain SUD treatment without  
1131 parent/guardian consent, the minor's consent is required to share their health information for  
1132 purposes other than treatment, payment, and operations under HIPAA, including with their  
1133 parents/guardians. However, the reality is more complex. Most adolescents cannot afford  
1134 treatment without family support or health insurance, and parents/guardians often have access to  
1135 their adolescent's healthcare information through payer documentation and/or healthcare portals.

1136 Before drug testing, clinicians should ask the adolescent for permission to share the results with  
1137 parents/guardians and discuss confidentiality with both patients and caregivers to encourage  
1138 family system involvement. These discussions should include the limits of confidentiality,  
1139 including mandatory reporting requirements; information that may be shared or accessible to  
1140 caregivers without the adolescent's consent; and information that will not be shared with  
1141 caregivers. If an adolescent declines to share drug test results, the clinicians should not share  
1142 them unless mandated to do so (i.e., due to an acute risk of harm to the patient or others).

1143

1144 *Home testing*

1145 Because of a variety of limitations with home drug testing process and interpretation, clinicians  
1146 should recommend against caregivers using home drug tests to screen their children for  
1147 substance use unless approved and overseen by a clinician, emphasizing that only trained  
1148 clinicians can accurately interpret test results.

1149 **Patient Voice**

1150 Research suggests that patients’ perception of drug testing as either therapeutic or punitive  
1151 depends strongly on the level of trust within the clinical relationship.<sup>3</sup> As such, it is important to  
1152 consider patient voices when implementing drug testing. ASAM convened a Patient Panel with  
1153 representatives who provided input throughout the development of this Consensus Statement  
1154 (see [Methodology](#)).

1155 The Patient Panel emphasized that drug testing can set up a paternalistic environment that  
1156 undermines patient dignity. As such, it can damage the trust between patients and clinicians  
1157 because it does not reflect that patient autonomy is valued. They discussed experiences where it  
1158 was clear to them that drug testing results were not used to meaningfully impact their SUD  
1159 treatment and emphasized the need for drug testing to only be used to meaningfully inform  
1160 clinical decision making. The Patient Panel also noted that they are skeptical of research that  
1161 seems designed to find benefits of drug testing rather than exploring associated harms.

1162 For pregnant and parenting patients, the Patient Panel noted that drug testing is a deterrent from  
1163 participation in healthcare at all due to the implications for child custody or criminal legal  
1164 involvement which can have generational impacts on that family. They highlighted that clinicians  
1165 should consider conducting tests that are specific for methadone and buprenorphine and their  
1166 metabolites instead of more general opioid panels to prevent a patient’s MOUD compliance from  
1167 triggering child welfare involvement. Critically, clinicians interpreting drug test results in non-  
1168 SUD treatment settings (eg, hospitals, EDs, and prenatal care settings) should not assume that  
1169 treatment medications have been accessed through diversion.

1170 The Patient Panel also noted that drug testing can be a deterrent to SUD treatment participation  
1171 for non-pregnant people as well. They noted that the inequitable application of drug testing in  
1172 their experiences (eg, for patients on Medicaid) has felt extremely stigmatizing. Patients are  
1173 aware of their risks related to a positive drug test including:

- 1174 • loss of freedom for those who are involved in the criminal legal system
- 1175 • treatment termination for those in facilities that use positive drug tests as a justification  
1176 for administrative discharge
- 1177 • loss of methadone take-home dosing for those in OTPs

1178 In some treatment programs, positive drug test results are used to restrict patient privileges. One  
1179 patient spent 8 months without access to the internet, cell phone, or contact from family  
1180 members due to cannabis drug test positivity. Patients also emphasized that, in their experience,  
1181 observed UDS is among the most harmful practices in treatment and that it can feel like a human  
1182 rights violation. These harms of drug testing contribute to the enormous gap between the number  
1183 of people with SUD and the number who participate in treatment.

1184 The Patient Panel also noted that drug testing can be beneficial when applied in a patient  
1185 centered way. For example, they noted that if clinicians did not use positive results to make  
1186 adverse treatment decisions, testing could be used to inform harm reduction efforts. They  
1187 emphasized that it would be helpful if patients were able to request drug testing as an element of  
1188 their own treatment journey, particularly confirmatory testing. However, the Patient Panel noted  
1189 that patients may have to pay for confirmatory testing, which can contribute to socioeconomic  
1190 disparities in who can advocate for themselves.

1191 The Patient Panel noted that the SUD treatment system seems to be operating on autopilot under  
1192 the assumption that drug testing is necessary, rather than evaluating the risks and benefits  
1193 individually for each patient. They encourage clinicians to be thoughtful about its application,  
1194 including:

- 1195 • Not using drug test results as a central metric of treatment success, as this undermines  
1196 patient-centered care
- 1197 • Giving patients the benefit of the doubt given the reality of false positives and false  
1198 negatives
- 1199 • Considering the whole picture of the patient, including improvements in functioning and  
1200 quality of life
- 1201 • Being thoughtful about when information is shared (ie, with consent) and what  
1202 information is shared
  - 1203 ○ SUD treatment clinicians should be advocates for their patients, and should share  
1204 results of drug tests that demonstrate progress (eg, adherence to MOUD) when  
1205 appropriate

1206

1207 **Bibliography**

- 1208 1. Myers B, Da Silva N, McLaughlin S, et al. The relationship between patient-centred care  
1209 for substance use disorders and patient outcomes: A scoping review. *Int J Drug Policy*.  
1210 2025;139:104770. doi:10.1016/j.drugpo.2025.104770
- 1211 2. Mahon D. A systematic review of trauma informed care in substance use settings.  
1212 *Community Ment Health J*. 2025;61(4):734-753. doi:10.1007/s10597-024-01395-z
- 1213 3. van Vredendaal R, Venema S, Kuipers S, Boonstra N, Spoelstra K. Lived Experiences of  
1214 Urine Drug Testing Among Individuals with a Substance Use Disorder: A Punitive or Supportive  
1215 Intervention? *Nurs Rep*. 2026;16(2):38. doi:10.3390/nursrep16020038
- 1216 4. Blum K, Han D, Femino J, et al. Systematic evaluation of "compliance" to prescribed  
1217 treatment medications and "abstinence" from psychoactive drug abuse in chemical dependence  
1218 programs: data from the comprehensive analysis of reported drugs. *PLoS One*.  
1219 2014;9(9):e104275. doi:10.1371/journal.pone.0104275
- 1220 5. Hammett-Stabler CA, Pesce AJ, Cannon DJ. Urine drug screening in the medical setting.  
1221 *Clin Chim Acta*. 2002;315(1-2):125-135. doi:10.1016/s0009-8981(01)00714-8
- 1222 6. Hadland SE, Levy S. Objective testing: urine and other drug tests. *Child Adolesc*  
1223 *Psychiatr Clin N Am*. 2016;25(3):549-565. doi:10.1016/j.chc.2016.02.005
- 1224 7. Kale N. Urine drug tests: ordering and interpreting results. *Am Fam Physician*.  
1225 2019;99(1):33-39.
- 1226 8. Moeller KE, Kissack JC, Atayee RS, Lee KC. Clinical interpretation of urine drug tests:  
1227 what clinicians need to know about urine drug screens. *Mayo Clin Proc*. 2017;92(5):774-796.  
1228 doi:10.1016/j.mayocp.2016.12.007
- 1229 9. Huizinga JL, Oshman L, Onishchenko R, et al. "Treating me like a criminal": A  
1230 qualitative study of birthing parents' perspectives on racism and biases in newborn drug testing  
1231 for substance exposure during pregnancy. *J Subst Use Addict Treat*. 2025;176:209745.  
1232 doi:10.1016/j.josat.2025.209745
- 1233 10. Kolla BP, Callizo GL, Schneekloth TD. Utility of urine drug testing in outpatient  
1234 addiction evaluations. *J Addict Med*. 2019;13(3):188-192. doi:10.1097/adm.0000000000000477
- 1235 11. Stellpflug SJ, Cole JB, Greller HA. Urine drug screens in the emergency department: The  
1236 best test may be no test at all. *J Emerg Nurs*. 2020;46(6):923-931. doi:10.1016/j.jen.2020.06.003
- 1237 12. Srebnik DS, McDonnell MG, Ries RK, Andrus G. Conflicts among CMHC clinicians over  
1238 the role of urine drug testing. *Psychiatr Serv*. 2014;65(5):700-701.  
1239 doi:10.1176/appi.ps.201300489
- 1240 13. McEachern J, Adye-White L, Priest KC, et al. Lacking evidence for the association  
1241 between frequent urine drug screening and health outcomes of persons on opioid agonist therapy.  
1242 *Int J Drug Policy*. 2019;64:30-33. doi:10.1016/j.drugpo.2018.08.006
- 1243 14. Chua I, Petrides AK, Schiff GD, et al. Provider misinterpretation, documentation, and  
1244 follow-up of definitive urine drug testing results. *J Gen Intern Med*. 2020;35(1):283-290.  
1245 doi:10.1007/s11606-019-05514-5
- 1246 15. Jaffe A, Molnar S, Williams N, et al. Review and recommendations for drug testing in  
1247 substance use treatment contexts. *J Reward Defic Syndr Addict Sci*. 2016;2(1):28-45.  
1248 doi:10.17756/jrdsas.2016-025
- 1249 16. Saitman A. Clinical drug testing supporting patients with substance use disorder: a  
1250 review. *J Appl Lab Med*. 2025;10(5):1311-1326. doi:10.1093/jalm/jfaf069

- 1251 17. Jarvis M, Williams J, Hurford M, et al. Appropriate use of drug testing in clinical  
1252 addiction medicine. *J Addict Med.* 2017;11(3):163-173.
- 1253 18. Barnett BS, Chai PR, Suzuki J. Scaling up point-of-care fentanyl testing - a step forward.  
1254 *N Engl J Med.* 2023;389(18):1643-1645. doi:10.1056/NEJMp2308525
- 1255 19. Thompson E, Tardif J, Ujeneza M, et al. Pilot findings on the real-world performance of  
1256 xylazine test strips for drug residue testing and the importance of secondary testing methods.  
1257 *Drug Alcohol Depend Rep.* 2024;11:100241. doi:10.1016/j.dadr.2024.100241
- 1258 20. Zhu DT, Palamar JJ. Responding to medetomidine: clinical and public health needs.  
1259 *Lancet Reg Health Am.* 2025;44:101053. doi:10.1016/j.lana.2025.101053
- 1260 21. Walter KN, Petry, N.M. Motivation and contingency management treatments for  
1261 substance use disorders. In: Simpson, E., Balsam, P. (eds). *Behavioral Neuroscience of*  
1262 *Motivation Current Topics in Behavioral Neurosciences.* Vol 27. Springer, Cham; 2015.
- 1263 22. Theisen J, Weinstein ZM, Davoust M, et al. Patient and provider perspectives on the  
1264 elimination of urine drug testing in office-based addiction treatment. *Subst Use Addctn J.*  
1265 2026;47(1):144-152. doi:10.1177/29767342251360850
- 1266 23. Reichert J, Weisner L, Otto HD. A study of drug testing practices in probation. Chicago,  
1267 IL: Illinois Criminal Justice Information Authority.2020.
- 1268 24. Karvonen KL, Anunwah E, Chambers Butcher BD, et al. Structural racism  
1269 operationalized via adverse social events in a single-center neonatal intensive care unit. *J*  
1270 *Pediatr.* 2023;260:113499. doi:10.1016/j.jpeds.2023.113499
- 1271 25. Vayr F, Herin F, Jullian B, Soulat JM, Franchitto N. Barriers to seeking help for  
1272 physicians with substance use disorder: A review. *Drug Alcohol Depend.* 2019;199:116-121.  
1273 doi:10.1016/j.drugalcdp.2019.04.004
- 1274 26. Cazalis A, Lambert L, Auriacombe M. Stigmatization of people with addiction by health  
1275 professionals: Current knowledge. A scoping review. *Drug Alcohol Depend Rep.* 2023;9:100196.  
1276 doi:10.1016/j.dadr.2023.100196
- 1277 27. Keary CJ, Wang Y, Moran JR, Zayas LV, Stern TA. Toxicologic testing for opiates:  
1278 understanding false-positive and false-negative test results. *Prim Care Companion CNS Disord.*  
1279 2012;14(4):PCC.12f01371. doi:10.4088/PCC.12f01371
- 1280 28. Meyerson BE, Russell DM, Kichler M, Atkin T, Fox G, Coles HB. I don't even want to  
1281 go to the doctor when I get sick now: Healthcare experiences and discrimination reported by  
1282 people who use drugs, Arizona 2019. *Int J Drug Policy.* 2021;93:103112.  
1283 doi:10.1016/j.drugpo.2021.103112
- 1284 29. Confidentiality of substance use disorder patient records. 42 CFR § 290dd-2 82 FR 6115  
1285 (2017). Accessed March 31, 2026. [https://www.ecfr.gov/current/title-42/chapter-I/subchapter-](https://www.ecfr.gov/current/title-42/chapter-I/subchapter-A/part-2)  
1286 [A/part-2](https://www.ecfr.gov/current/title-42/chapter-I/subchapter-A/part-2)
- 1287 30. Sharko M, Jameson R, Ancker JS, Krams L, Webber EC, Rosenbloom ST. State-by-state  
1288 variability in adolescent privacy laws. *Pediatrics.* 2022;149(6):e2021053458.  
1289 doi:10.1542/peds.2021-053458
- 1290 31. Bharat C, Webb P, Wilkinson Z, et al. Agreement between self-reported illicit drug use  
1291 and biological samples: a systematic review and meta-analysis. *Addiction.* 2023;118(9):1624-  
1292 1648. doi:10.1111/add.16200
- 1293 32. Akosile W, McDermott BM. Use of the urine drug screen in psychiatry emergency  
1294 service. *Australas Psychiatry.* 2015;23(2):128-131. doi:10.1177/1039856214568213

- 1295 33. Kroll DS, Smallwood J, Chang G. Drug screens for psychiatric patients in the emergency  
1296 department: evaluation and recommendations. *Psychosomatics*. 2013;54(1):60-66.  
1297 doi:10.1016/j.psym.2012.08.007
- 1298 34. Vakili S, Currie S, el-Guebaly N. Evaluating the utility of drug testing in an outpatient  
1299 addiction program. *Addict Disord Their Treat*. 2009;8(1):22-32.  
1300 doi:10.1097/ADT.0b013e318166efc4
- 1301 35. Ruglass LM, Shevorykin A, Zhao Y, et al. Self-report and urine drug screen concordance  
1302 among women with co-occurring PTSD and substance use disorders participating in a clinical  
1303 trial: Impact of drug type and participant characteristics. *Drug Alcohol Depend*.  
1304 2023;244:109769. doi:10.1016/j.drugalcdep.2023.109769
- 1305 36. Bastien G, Abboud A, McAnulty C, et al. Concordance between urine drug screening and  
1306 self-reported use in the context of a pragmatic randomized-controlled trial in people with  
1307 prescription-type opioid use disorder. *Can J Psychiatry*. 2026;71(1):41-52.  
1308 doi:10.1177/07067437251367180
- 1309 37. van den Berg JJ, Adeyemo S, Roberts MB, et al. Comparing the validity of self-report  
1310 and urinalysis for substance use among former inmates in the Northeastern United States. *Subst*  
1311 *Use Misuse*. 2018;53(10):1756-1761. doi:10.1080/10826084.2018.1432646
- 1312 38. Wilcox CE, Bogenschutz MP, Nakazawa M, Woody G. Concordance between self-report  
1313 and urine drug screen data in adolescent opioid dependent clinical trial participants. *Addict*  
1314 *Behav*. 2013;38(10):2568-2574. doi:10.1016/j.addbeh.2013.05.015
- 1315 39. McEvoy A, Rodrigues M, Dennis BB, et al. Do we need urine drug screens in opioid  
1316 addiction treatment: An observational study on self-report versus urine drug screens. *Addict*  
1317 *Behav Rep*. 2025;21:100575. doi:10.1016/j.abrep.2024.100575
- 1318 40. Tourangeau R, Smith, T.W. Asking sensitive questions: The impact of data collection  
1319 mode, question format, and question context. *Public Opin Q*. 1996;60(2):275-304.
- 1320 41. O'Reilly JM, Hubbard ML, Lessler JT, Biemer PP, Turner CF. Audio and video computer-  
1321 assisted self interviewing: Preliminary tests of new technologies for data collection. *J Off Stat*.  
1322 1994;10(2):197-214.
- 1323 42. Butler SF, Villapiano A, Malinow A. The effect of computer-mediated administration on  
1324 self-disclosure of problems on the addiction severity index. *J Addict Med*. 2009;3(4):194-203.  
1325 doi:10.1097/ADM.0b013e3181902844
- 1326 43. Kumar PC, Cleland CM, Gourevitch MN, et al. Accuracy of the Audio Computer  
1327 Assisted Self Interview version of the Alcohol, Smoking and Substance Involvement Screening  
1328 Test (ACASI ASSIST) for identifying unhealthy substance use and substance use disorders in  
1329 primary care patients. *Drug Alcohol Depend*. 2016;165:38-44.  
1330 doi:10.1016/j.drugalcdep.2016.05.030
- 1331 44. Stefanidou M, Athanaselis S, Spiliopoulou C, Dona A, Maravelias C. Biomarkers of  
1332 opiate use. *Int J Clin Pract*. 2010;64(12):1712-1718. doi:10.1111/j.1742-1241.2010.02373.x
- 1333 45. O'Callaghan ME, Regan L, Wilson M, et al. Acceptability and accuracy of oral fluid drug  
1334 testing for patients on methadone maintenance. *Ir J Med Sci*. 2020;189(2):557-561.  
1335 doi:10.1007/s11845-019-02106-4
- 1336 46. Dupouy J, Dassieu L, Bourrel R, et al. Effectiveness of drug tests in outpatients starting  
1337 opioid substitution therapy. *J Subst Abuse Treat*. 2013;44(5):515-521.  
1338 doi:10.1016/j.jsat.2012.11.006
- 1339 47. Morin KA, Dabous JR, Vojtesek F, Marsh D. Evaluating the association between urine  
1340 drug screening frequency and retention in opioid agonist treatment in Ontario, Canada: a

- 1341 retrospective cohort study. *BMJ Open*. 2022;12(10):e060857. doi:10.1136/bmjopen-2022-  
1342 060857
- 1343 48. Lyle V, Harris S, Heidari O, et al. Association between high-threshold practices and  
1344 buprenorphine treatment termination. *Int J Drug Policy*. 2024;124:104318.  
1345 doi:10.1016/j.drugpo.2024.104318
- 1346 49. Michener PS, Knee A, Wilson D, Boama-Nyarko E, Friedmann PD. Association of  
1347 random and observed urine drug screening with long-term retention in opioid treatment  
1348 programs. *Drug Alcohol Depend*. 2024;255:111067. doi:10.1016/j.drugalcdep.2023.111067
- 1349 50. Mallya A, Purnell AL, Svrakic DM, et al. Witnessed versus unwitnessed random urine  
1350 tests in the treatment of opioid dependence. *Am J Addict*. 2013;22(2):175-177.  
1351 doi:10.1111/j.1521-0391.2013.00326.x
- 1352 51. Hartford RJ, Kleber HD. Comparative validity of random-interval and fixed-interval  
1353 urinalysis schedules. *Arch Gen Psychiatry*. 1978;35(3):356-359.
- 1354 52. Patel H, Easterbrook B, Ralston FA, et al. Increased prevalence of childhood complex  
1355 trauma in comorbid posttraumatic stress disorder and substance use disorders compared to either  
1356 disorder alone: a systematic review. *Early Interv Psychiatry*. 2025;19(5):e70051.  
1357 doi:10.1111/eip.70051
- 1358 53. Substance Abuse and Mental Health Services Administration. Trauma-Informed Care in  
1359 behavioral health services. Treatment Improvement Protocol (TIP) Series 57. HHS Publication  
1360 No. (SMA) 13-4801. Rockville, MD: Substance Abuse and Mental Health Services  
1361 Administration,2014.
- 1362 54. Khatri UG, Aronowitz SV. Considering the harms of our habits: The reflexive urine drug  
1363 screen in opioid use disorder treatment. *J Subst Abuse Treat*. 2021;123:108258.  
1364 doi:10.1016/j.jsat.2020.108258
- 1365 55. Tofighi B, Williams AR, Chemi C, Suhail-Sindhu S, Dickson V, Lee JD. Patient Barriers  
1366 and Facilitators to Medications for Opioid Use Disorder in Primary Care. *Subst Use Misuse*.  
1367 2019;54(14):2409-2419. doi:10.1080/10826084.2019.1653324
- 1368 56. Strike C, Rufo C. Embarrassing, degrading, or beneficial: Patient and staff perspectives  
1369 on urine drug testing in methadone maintenance treatment. *J Subst Use*. 2010;15(5):303-312.  
1370 doi:10.3109/14659890903431603
- 1371 57. Vigilant LG. The Stigma Paradox in Methadone Maintenance: Naïve and Positive  
1372 Consequences of a “Treatment Punishment” Approach to Opiate Addiction. *Humanity Soc*.  
1373 2004;28(4):403-418. doi:<https://doi.org/10.1177/016059760402800404>
- 1374 58. Kirsh KL, Baxter LE, Rzetelny A, Mazuk M, Passik SD. A survey of ASAM members'  
1375 knowledge, attitudes, and practices in urine drug testing. *J Addict Med*. 2015;9(5):399-404.  
1376 doi:10.1097/ADM.000000000000146
- 1377 59. Bolívar HA, Klemperer EM, Coleman SRM, DeSarno M, Skelly JM, Higgins ST.  
1378 Contingency management for patients receiving medication for opioid use disorder: a systematic  
1379 review and meta-analysis. *JAMA Psychiatry*. 2021;78(10):1092-1102.  
1380 doi:10.1001/jamapsychiatry.2021.1969
- 1381 60. Prendergast M, Podus D, Finney J, Greenwell L, Roll J. Contingency management for  
1382 treatment of substance use disorders: a meta-analysis. *Addiction*. 2006;101(11):1546-1560.  
1383 doi:<https://doi.org/10.1111/j.1360-0443.2006.01581.x>
- 1384 61. DeFulio A, Silverman K. The use of incentives to reinforce medication adherence. *Prev*  
1385 *Med*. 2012;55:S86-S94. doi:<https://doi.org/10.1016/j.ypmed.2012.04.017>

- 1386 62. DeFulio A, Devoto A, Traxler H, et al. Smartphone-based incentives for promoting  
1387 adherence to antiretroviral therapy: a randomized controlled trial. *Prev Med Rep.*  
1388 2021;21:101318. doi:<https://doi.org/10.1016/j.pmedr.2021.101318>
- 1389 63. Goodwin SR, Kirby KC, Salzman MS, Raiff BR. Pragmatic and low-cost contingency  
1390 management intervention increases buprenorphine treatment engagement: Randomized  
1391 controlled trial. *Exp Clin Psychopharmacol.* 2026;34(1):68.
- 1392 64. Pfund RA, Ginley MK, Rash CJ, Zajac K. Contingency management for treatment  
1393 attendance: A meta-analysis. *J Subst Abuse Treat.* 2022;133:108556.  
1394 doi:10.1016/j.jsat.2021.108556
- 1395 65. Fitzsimons H, Tuten M, Borsuk C, Lookatch S, Hanks L. Clinician-delivered contingency  
1396 management increases engagement and attendance in drug and alcohol treatment. *Drug Alcohol*  
1397 *Depend.* 2015;152:62-67. doi:10.1016/j.drugalcdep.2015.04.021
- 1398 66. Rhodes GL, Saules KK, Helmus TC, et al. Improving on-time counseling attendance in a  
1399 methadone treatment program: a contingency management approach. *Am J Drug Alcohol Abuse.*  
1400 2003;29(4):759-773. doi:10.1081/ada-120026259
- 1401 67. Burch AE, Rash CJ, Petry NM. Cocaine-using substance abuse treatment patients with  
1402 and without HIV respond well to contingency management treatment. *J Subst Abuse Treat.*  
1403 2017;77:21-25. doi:doi.org/10.1016/j.jsat.2017.03.001
- 1404 68. Lewis MW, Petry NM. Contingency management treatments that reinforce completion of  
1405 goal-related activities: participation in family activities and its association with outcomes. *Drug*  
1406 *Alcohol Depend.* 2005;79(2):267-271. doi:10.1016/j.drugalcdep.2005.01.016
- 1407 69. Davis DR, Kurti AN, Skelly JM, Redner R, White TJ, Higgins ST. A review of the  
1408 literature on contingency management in the treatment of substance use disorders, 2009–2014.  
1409 *Prev Med.* 2016;92:36-46. doi:<https://doi.org/10.1016/j.ypmed.2016.08.008>
- 1410 70. Secades-Villa R, Aonso-Diego G, García-Pérez A, González-Roz A. Effectiveness of  
1411 contingency management for smoking cessation in substance users: a systematic review and  
1412 meta-analysis. *J Consult Clin Psychol.* 2020;88(10):951-964. doi:10.1037/ccp0000611
- 1413 71. De Crescenzo F, Ciabattini M, D'Alò GL, et al. Comparative efficacy and acceptability of  
1414 psychosocial interventions for individuals with cocaine and amphetamine addiction: a systematic  
1415 review and network meta-analysis. *PLOS Medicine.* 2018;15(12):e1002715.  
1416 doi:10.1371/journal.pmed.1002715
- 1417 72. Destoop M, Docx L, Morrens M, Dom G. Meta-analysis on the effect of contingency  
1418 management for patients with both psychotic disorders and substance use disorders. *J Clin Med.*  
1419 2021;10(4):616. doi:10.3390/jcm10040616
- 1420 73. Hand DJ, Ellis JD, Carr MM, Abatamarco DJ, Ledgerwood DM. Contingency  
1421 management interventions for tobacco and other substance use disorders in pregnancy. *Psychol*  
1422 *Addict Behav.* 2017;31(8):907-921. doi:10.1037/adb0000291
- 1423 74. Brown HD, DeFulio A. Contingency management for the treatment of methamphetamine  
1424 use disorder: a systematic review. *Drug Alcohol Depend.* 2020;216:108307.  
1425 doi:<https://doi.org/10.1016/j.drugalcdep.2020.108307>
- 1426 75. Davidson RM, Traxler HK, DeFulio A, Redish AD, Royle JA, Gass HP. Contingency  
1427 management for monosubstance use disorders: systematic review and assessment of predicted  
1428 versus obtained effects. *J Appl Behav Anal.* 2025;58(1):17-35.  
1429 doi:<https://doi.org/10.1002/jaba.2922>

- 1430 76. Srebnik D, Sugar A, Coblenz P, et al. Acceptability of contingency management among  
1431 clinicians and clients within a co-occurring mental health and substance use treatment program.  
1432 *Am J Addict.* 2013;22(5):432-436. doi:10.1111/j.1521-0391.2013.00333.x
- 1433 77. Getty C-A, Weaver T, Lynskey M, Kirby KC, Dallery J, Metrebian N. Patients' beliefs  
1434 towards contingency management: target behaviours, incentives and the remote application of  
1435 these interventions. *Drug Alcohol Rev.* 2022;41(1):96-105. doi:10.1111/dar.13314
- 1436 78. American Society of Addiction Medicine. Engagement and retention of nonabstinent  
1437 patients in substance use treatment: Clinical consideration for addiction treatment providers.  
1438 October 2024. Accessed March 31, 2026. [https://www.asam.org/quality-care/clinical-](https://www.asam.org/quality-care/clinical-recommendations/asam-clinicalconsiderations-for-engagement-and-retention-of-non-abstinent-patients-in-treatment)  
1439 [recommendations/asam-clinicalconsiderations-for-engagement-and-retention-of-non-abstinent-](https://www.asam.org/quality-care/clinical-recommendations/asam-clinicalconsiderations-for-engagement-and-retention-of-non-abstinent-patients-in-treatment)  
1440 [patients-in-treatment](https://www.asam.org/quality-care/clinical-recommendations/asam-clinicalconsiderations-for-engagement-and-retention-of-non-abstinent-patients-in-treatment)
- 1441 79. Jakubowski A, Fox A. Defining low-threshold buprenorphine treatment. *J Addict Med.*  
1442 2020;14(2):95-98. doi:10.1097/ADM.0000000000000555
- 1443 80. Krawczyk N, Allen ST, Schneider KE, et al. Intersecting substance use treatment and  
1444 harm reduction services: exploring the characteristics and service needs of a community-based  
1445 sample of people who use drugs. *Harm Reduct J.* 2022;19(1):95. doi:10.1186/s12954-022-  
1446 00676-8
- 1447 81. White WL, Scott CK, Dennis ML, Boyle MG. It's time to stop kicking people out of  
1448 addiction treatment. *Counselor (Deerfield Beach).* 2005;6(2):12-25.
- 1449 82. Taylor JL, Johnson S, Cruz R, Gray JR, Schiff D, Bagley SM. Integrating harm reduction  
1450 into outpatient opioid use disorder treatment settings : Harm reduction in outpatient addiction  
1451 treatment. *J Gen Intern Med.* 2021;36(12):3810-3819. doi:10.1007/s11606-021-06904-4
- 1452 83. Eisen JS, Sivillotti ML, Boyd KU, Barton DG, Fortier CJ, Collier CP. Screening urine for  
1453 drugs of abuse in the emergency department: do test results affect physicians' patient care  
1454 decisions? *CJEM.* 2004;6(2):104-111. doi:10.1017/s1481803500009064
- 1455 84. Erdmann A, Werner D, Hugli O, Yersin B. Focused use of drug screening in overdose  
1456 patients increases impact on management. *Swiss Med Wkly.* 2015;145:w14242.  
1457 doi:10.4414/smw.2015.14242
- 1458 85. Fabbri A, Marchesini G, Morselli-Labate AM, et al. Comprehensive drug screening in  
1459 decision making of patients attending the emergency department for suspected drug overdose.  
1460 *Emerg Med J.* 2003;20(1):25-28. doi:10.1136/emj.20.1.25
- 1461 86. Mahoney JD, Gross PL, Stern TA, et al. Quantitative serum toxic screening in the  
1462 management of suspected drug overdose. *Am J Emerg Med.* 1990;8(1):16-22. doi:10.1016/0735-  
1463 6757(90)90287-a
- 1464 87. Murnion BP, Granot R, Day RO. Utility of urine drug screening: a clinical audit. *Emerg*  
1465 *Med Australas.* 2007;19(3):246-252. doi:10.1111/j.1742-6723.2007.00922.x
- 1466 88. Schiller MJ, Shumway M, Batki SL. Utility of routine drug screening in a psychiatric  
1467 emergency setting. *Psychiatr Serv.* 2000;51(4):474-478. doi:10.1176/appi.ps.51.4.474
- 1468 89. Perloff MD, R. BM, C. SD, and Kase CS. Urgent neurological symptoms and urine  
1469 toxicology, an outcomes study. *J Subst Use.* 2018;23(2):211-213.  
1470 doi:10.1080/14659891.2017.1378745
- 1471 90. Ali SA, Shell J, Harris R, Bedder M. Naloxone prescriptions among patients with a  
1472 substance use disorder and a positive fentanyl urine drug screen presenting to the emergency  
1473 department. *Harm Reduct J.* 2023;20(1):144. doi:10.1186/s12954-023-00878-8

- 1474 91. Gallagher R, Dangers J, Thornton SL. Do trauma patients with phencyclidine-positive  
1475 urine drug screens have increased morbidity or mortality? *Am J Emerg Med.* 2016;34(6):1066-  
1476 1068. doi:10.1016/j.ajem.2016.03.022
- 1477 92. Izezor I, Lindheim S, Ehrig JC, White RS, Hofkamp MP. Racial disparities in parturient  
1478 urine drug screening at a Texas level IV maternal care centre: a single-centre retrospective study.  
1479 *J Obstet Gynaecol Can.* 2024;46(12):102679. doi:10.1016/j.jogc.2024.102679
- 1480 93. Kunins HV, Bellin E, Chazotte C, Du E, Arnsten JH. The effect of race on provider  
1481 decisions to test for illicit drug use in the peripartum setting. *J Womens Health (Larchmt).*  
1482 2007;16(2):245-255. doi:10.1089/jwh.2006.0070
- 1483 94. Ellsworth MA, Stevens TP, D'Angio CT. Infant race affects application of clinical  
1484 guidelines when screening for drugs of abuse in newborns. *Pediatrics.* 2010;125(6):e1379-  
1485 e1385. doi:10.1542/peds.2008-3525
- 1486 95. Cohen S, Nielsen T, Chou JH, et al. Disparities in maternal-infant drug testing, social  
1487 work assessment, and custody at 5 hospitals. *Acad Pediatr.* 2023;23(6):1268-1275.  
1488 doi:10.1016/j.acap.2023.01.012
- 1489 96. Jarlenski M, Shroff J, Terplan M, Roberts SCM, Brown-Podgorski B, Krans EE.  
1490 Association of race with urine toxicology testing among pregnant patients during labor and  
1491 delivery. *JAMA Health Forum.* 2023;4(4):e230441. doi:10.1001/jamahealthforum.2023.0441
- 1492 97. Overbeek DL, Janke AT, Watson CJ, et al. Disparate utilization of urine drug screen  
1493 nationwide in the evaluation of acute chest pain. *West J Emerg Med.* 2023;24(2):135-140.  
1494 doi:10.5811/westjem.2022.11.58231
- 1495 98. Goedel WC, Shapiro A, Cerda M, Tsai JW, Hadland SE, Marshall BDL. Association of  
1496 racial/ethnic segregation with treatment capacity for opioid use disorder in counties in the United  
1497 States. *JAMA Netw Open.* 2020;3(4):e203711. doi:10.1001/jamanetworkopen.2020.3711
- 1498 99. Borton D, Streisel S, Stenger M, Fraser K, Sutton M, Wang YC. Disparities in substance  
1499 use treatment retention: An exploration of reasons for discharge from publicly funded treatment.  
1500 *J Ethn Subst Abuse.* 2024;23(4):857-875. doi:10.1080/15332640.2022.2143977
- 1501 100. Roberts SC, Nuru-Jeter A. Universal screening for alcohol and drug use and racial  
1502 disparities in child protective services reporting. *J Behav Health Serv Res.* Jan 2012;39(1):3-16.  
1503 doi:10.1007/s11414-011-9247-x
- 1504 101. Culbert MH, Bhogadi SK, Hosseinpour H, et al. Predictors of receiving mental health  
1505 services in trauma patients with positive drug screen. *J Surg Res.* 2024;298:7-13.  
1506 doi:10.1016/j.jss.2023.12.046
- 1507 102. Bradner K, Schiraldi V, Mejia N, Lopoo E. More work to do: Analysis of probation and  
1508 parole in the United States, 2017-2018. Accessed March 30, 2026.  
1509 <https://justicelab.columbia.edu/More-Work-to-Do>
- 1510 103. Desmarais SL, Van Dorn RA, Sellers BG, Young MS, Swartz MS. Accuracy of self-  
1511 report, biological tests, collateral reports and clinician ratings in identifying substance use  
1512 disorders among adults with schizophrenia. *Psychol Addict Behav.* 2013;27(3):774-787.  
1513 doi:10.1037/a0031256
- 1514 104. Substance Abuse and Mental Health Services Administration. Clinical drug testing in  
1515 primary care. Technical assistance publication (TAP) 32. HHS Publication No. (SMA) 12-4668.  
1516 Rockville, MD: Substance Abuse and Mental Health Services Administration, 2012.
- 1517 105. Snozek CLH, Krasowski MD, Colby JM, Johnson-Davis KL, Bruccoleri RE, Melanson  
1518 SE. ADLM guidance document on laboratory testing for drugs of misuse to support the  
1519 emergency department. *J Appl Lab Med.* 2026;11(1):155-180. doi:10.1093/jalm/jfaf172

- 1520 106. Snozek CLH, Yee CI, Bryksin J, et al. Assessing knowledge gaps and educational needs  
1521 in urine drug test interpretation among health care professionals. *Am J Clin Pathol.*  
1522 2025;163(1):69-79. doi:10.1093/ajcp/aae095
- 1523 107. Rosenfeld B, Budescu DV, Han Y, Foellmi M, Kirsh KL, Passik SD. Does the perceived  
1524 accuracy of urine drug testing impact clinical decision-making? *Subst Abus.* 2020;41(1):85-92.  
1525 doi:10.1080/08897077.2019.1621239
- 1526 108. Aultman W, Fett J, Lauster C, Muench S, Halalau A. Urine drug test interpretation: an  
1527 educational program's impact on resident knowledge and comfort level. *MedEdPORTAL.*  
1528 2018;14:10684. doi:10.15766/mep\_2374-8265.10684
- 1529 109. Jannetto PJ, Bratanow NC, Clark WA, et al. Executive summary: American Association  
1530 of Clinical Chemistry laboratory medicine practice guideline-using clinical laboratory tests to  
1531 monitor drug therapy in pain management patients. *J Appl Lab Med.* 2018;2(4):489-526.  
1532 doi:10.1373/jalm.2017.023341
- 1533 110. Durback LF, Scharman EJ, Brown BS. Emergency physicians perceptions of drug screens  
1534 at their own hospitals. *Vet Hum Toxicol.* 1998;40(4):234-237.
- 1535 111. Chua IS, Ransohoff JR, Ehrlich O, et al. Laboratory-generated urine toxicology  
1536 interpretations: a mixed methods study. *Pain Physician.* Mar 2021;24(2):E191-e201.
- 1537 112. Kwong TC, Magnani B, Moore C. Urine and oral fluid drug testing in support of pain  
1538 management. *Crit Rev Clin Lab Sci.* 2017;54(6):433-445. doi:10.1080/10408363.2017.1385053
- 1539 113. U.S. Department of Transportation. Medical Review Officers. Accessed May 4, 2026,  
1540 <https://www.transportation.gov/odapc/mro#:~:text=Overview,I%20%2D%20Problems%20in%20Drug%20Tests>  
1541
- 1542 114. American College of Obstetricians and Gynecologists. Policy priorities substance use  
1543 disorder in pregnancy. Accessed April 1, 2026. [https://www.acog.org/advocacy/policy-](https://www.acog.org/advocacy/policy-priorities/substance-use-disorder-in-pregnancy)  
1544 [priorities/substance-use-disorder-in-pregnancy](https://www.acog.org/advocacy/policy-priorities/substance-use-disorder-in-pregnancy)
- 1545 115. Wexelblatt SL, Ward LP, Torok K, Tisdale E, Meinzen-Derr JK, Greenberg JM. Universal  
1546 maternal drug testing in a high-prevalence region of prescription opiate abuse. *J Pediatr.*  
1547 2015;166(3):582-586. doi:10.1016/j.jpeds.2014.10.004
- 1548 116. Wood KE, McMillin GA, Krasowski MD. Risk-based newborn drug testing in a setting  
1549 with a low prevalence of maternal drug use. *Hosp Pediatr.* 2019;9(8):593-600.  
1550 doi:10.1542/hpeds.2018-0256
- 1551 117. Haizler-Cohen L, Collins A, Kaplan DM, et al. Universal urine drug screening with rapid  
1552 confirmation upon admission to labor and delivery. *Am J Perinatol.* 2024;41(11):1512-1520.  
1553 doi:10.1055/a-2118-2841
- 1554 118. Klawans MR, Northrup TF, Villarreal YR, et al. A comparison of common practices for  
1555 identifying substance use during pregnancy in obstetric clinics. *Birth.* 2019;46(4):663-669.  
1556 doi:10.1111/birt.12426
- 1557 119. Rubin A, Zhong L, Nacke L, et al. Urine drug screening for isolated marijuana use in  
1558 labor and delivery units. *Obstet Gynecol.* 2022;140(4):607-609.  
1559 doi:10.1097/aog.0000000000004930
- 1560 120. Sarathy L, Chou JH, Lerou PH, et al. Limited utility of toxicology testing at delivery for  
1561 perinatal cannabis use. *Hosp Pediatr.* 2023;13(4):317-325. doi:10.1542/hpeds.2022-006897
- 1562 121. Son SL, Guiahi M, Heyborne KD. Historical and clinical factors associated with positive  
1563 urine toxicology screening on labor and delivery. *Eur J Obstet Gynecol Reprod Biol.*  
1564 2018;228:261-266. doi:10.1016/j.ejogrb.2018.07.020

- 1565 122. Chin JM, Chen E, Wright T, et al. Urine drug screening on labor and delivery. *Am J*  
1566 *Obstet Gynecol MFM*. Nov 2022;4(6):100733. doi:10.1016/j.ajogmf.2022.100733
- 1567 123. Perlman NC, Cantonwine DE, Smith NA. Racial differences in indications for obstetrical  
1568 toxicology testing and relationship of indications to test results. *Am J Obstet Gynecol MFM*.  
1569 2022;4(1):100453. doi:10.1016/j.ajogmf.2021.100453
- 1570 124. Siegel MR, Cohen SJ, Koenigs K, et al. Assessing the clinical utility of toxicology testing  
1571 in the peripartum period. *Am J Obstet Gynecol MFM*. 2023;5(7):100963.  
1572 doi:10.1016/j.ajogmf.2023.100963
- 1573 125. Roberts SC, Nuru-Jeter A. Women's perspectives on screening for alcohol and drug use in  
1574 prenatal care. *Womens Health Issues*. 2010;20(3):193-200. doi:10.1016/j.whi.2010.02.003
- 1575 126. Stone R. Pregnant women and substance use: fear, stigma, and barriers to care. *Health &*  
1576 *Justice*. 2015;3(1):2. doi:10.1186/s40352-015-0015-5
- 1577 127. Woodruff K, Scott KA, Roberts SCM. Pregnant people's experiences discussing their  
1578 cannabis use with prenatal care providers in a state with legalized cannabis. *Drug Alcohol*  
1579 *Depend*. 2021;227:108998. doi:10.1016/j.drugalcdep.2021.108998
- 1580 128. Jarlenski M, Minney S, Hogan C, Chang JC. Obstetric and pediatric provider  
1581 perspectives on mandatory reporting of prenatal substance use. *J Addict Med*. 2019;13(4):258-  
1582 263. doi:10.1097/adm.0000000000000489
- 1583 129. Zaugg C, Terplan M, Roberts SCM. Clinician views on reporting pregnant and birthing  
1584 patients who use alcohol and/or drugs to child welfare. *Am J Obstet Gynecol MFM*.  
1585 2023;5(10):101109. doi:10.1016/j.ajogmf.2023.101109
- 1586 130. Lijewski VA, Aldrich H, Straub HL. The impact of social vulnerability on substance use  
1587 detection practices in pregnancy. *Am J Perinatol*. 2024;41(16):2175-2192. doi:10.1055/s-0044-  
1588 1782686
- 1589 131. Choi S, Knopf E, Shim K, et al. Racial disparities in drug toxicology testing among  
1590 pregnant women & infants: a meta-analysis and systematic review. *Health Aff Sch*. Apr  
1591 2026;4(4):qxag079. doi:10.1093/haschl/qxag079
- 1592 132. Ganetsky VS, Yates B, Salzman M, et al. A retrospective cohort study of disparities in  
1593 urine drug testing during the perinatal period in an urban, academic medical center. *Matern Child*  
1594 *Health J*. 2024;28(8):1395-1403. doi:10.1007/s10995-024-03940-4
- 1595 133. Roberts SC, Zahnd E, Sufrin C, Armstrong MA. Does adopting a prenatal substance use  
1596 protocol reduce racial disparities in CPS reporting related to maternal drug use? A California  
1597 case study. *J Perinatol*. 2015;35(2):146-150. doi:10.1038/jp.2014.168
- 1598 134. Peterson JA, Koelper NC, Curley C, Sonalkar SR, James AT. Reduction of racial  
1599 disparities in urine drug testing after implementation of a standardized testing policy for pregnant  
1600 patients. *Am J Obstet Gynecol MFM*. 2023;5(5):100913. doi:10.1016/j.ajogmf.2023.100913
- 1601 135. Azimi V, Trammel C, Nacke L, et al. Racial equity in urine drug screening policies in  
1602 labor and delivery. *JAMA Netw Open*. 2025;8(3):e250908.  
1603 doi:10.1001/jamanetworkopen.2025.0908
- 1604 136. American College of Obstetricians and Gynecologists. Opioid Use and Opioid Use  
1605 Disorder in Pregnancy. Committee Opinion No. 711. *Obstet Gynecol*. 2017;130(2):e81-e94.
- 1606 137. Substance Abuse and Mental Health Services Administration. Clinical guidance for  
1607 treating pregnant and parenting women with opioid use disorder and their infants. HHS  
1608 Publication No. (SMA) 18-5054. Rockville, MD: Substance Abuse and Mental Health Services  
1609 Administration,2018.

- 1610 138. Ecker J, Abuhamad A, Hill W, et al. Substance use disorders in pregnancy: clinical,  
1611 ethical, and research imperatives of the opioid epidemic: a report of a joint workshop of the  
1612 Society for Maternal-Fetal Medicine, American College of Obstetricians and Gynecologists, and  
1613 American Society of Addiction Medicine. *Am J Obstet Gynecol*. Jul 2019;221(1):B5-B28.  
1614 doi:10.1016/j.ajog.2019.03.022
- 1615 139. Koenigs KJ, Chou JH, Cohen S, et al. Informed consent is poorly documented when  
1616 obtaining toxicology testing at delivery in a Massachusetts cohort. *Am J Obstet Gynecol MFM*.  
1617 2022;4(4):100621. doi:10.1016/j.ajogmf.2022.100621
- 1618 140. Bailey BA, Alyson C, Darshan S, Nathaniel J, and Wood D. Which newborns need  
1619 monitoring for neonatal opioid withdrawal syndrome (NOWS)? Utilization and accuracy of  
1620 methods to assess pregnancy opioid use. *J Subst Use*. 2024;29(5):875-880.  
1621 doi:10.1080/14659891.2023.2261054
- 1622 141. Gersch H, Shah D, Chroust A, Bailey B. Can umbilical cord testing add to maternal urine  
1623 drug screen for evaluation of infants at risk of neonatal opioid withdrawal syndrome? *J Matern*  
1624 *Fetal Neonatal Med*. 2023;36(1):2211706. doi:10.1080/14767058.2023.2211706
- 1625 142. Schoneich S, Plegue M, Waidley V, et al. Incidence of newborn drug testing and  
1626 variations by birthing parent race and ethnicity before and after recreational cannabis  
1627 legalization. *JAMA Netw Open*. 2023;6(3):e232058. doi:10.1001/jamanetworkopen.2023.2058
- 1628 143. Rebbe R, Mienko JA, Brown E, Rowhani-Rahbar A. Hospital variation in child  
1629 protection reports of substance exposed infants. *J Pediatr*. 2019;208:141-147.  
1630 doi:10.1016/j.jpeds.2018.12.065
- 1631 144. Nguyen H, Midgette G, Loughran T, Zhang Y. Random drug testing in prisons: Does a  
1632 little testing go a long way? *Criminol Public Policy*. 2021;20(2):329-349.  
1633 doi:<https://doi.org/10.1111/1745-9133.12543>
- 1634 145. Brusman Lovins L, Tillyer MS, Lovins BK, Tillyer R, May T. An empirical approach to a  
1635 standard practice: drug testing. *Crime Delinq*. 2024;70(8):2017-2042.  
1636 doi:10.1177/00111287221125389
- 1637 146. Haapanen R, Britton L. Drug testing for youthful offenders on parole: an experimental  
1638 evaluation. *Criminol Public Policy*. 2002;1(2):217-244. doi:[https://doi.org/10.1111/j.1745-](https://doi.org/10.1111/j.1745-9133.2002.tb00087.x)  
1639 [9133.2002.tb00087.x](https://doi.org/10.1111/j.1745-9133.2002.tb00087.x)
- 1640 147. Kilmer B. Does parolee drug testing influence employment and education outcomes?  
1641 Evidence from a randomized experiment with noncompliance. *J Quant Criminol*. 2008;24(1):93-  
1642 123. doi:10.1007/s10940-007-9040-4
- 1643 148. Grommon E, Cox SM, Davidson WS, Bynum TS. Alternative models of instant drug  
1644 testing: evidence from an experimental trial. *J Exp Criminol*. 2013;9(2):145-168.  
1645 doi:10.1007/s11292-012-9168-6
- 1646 149. Lattimore PK, MacKenzie DL, Zajac G, Dawes D, Arsenault E, Tueller S. Outcome  
1647 findings from the HOPE demonstration field experiment. *Criminol Public Policy*.  
1648 2016;15(4):1103-1141. doi:<https://doi.org/10.1111/1745-9133.12248>
- 1649 150. Shannon LM, Hulbig SK, Birdwhistell S, Newell J, Neal C. Implementation of an  
1650 enhanced probation program: evaluating process and preliminary outcomes. *Eval Program*  
1651 *Plann*. 2015;49:50-62. doi:10.1016/j.evalprogplan.2014.11.004
- 1652 151. Russo J, Peterson S, Vermeer MJD, Woods D, Jackson BA. *Reducing Racial and Ethnic*  
1653 *Disparities in Technical Violations of Probation or Parole Supervision*. Nov 6, 2023.
- 1654 152. Griffin BA, Ramchand R, Almirall D, Slaughter ME, Burgette LF, McCaffery DF.  
1655 Estimating the causal effects of cumulative treatment episodes for adolescents using marginal

- 1656 structural models and inverse probability of treatment weighting. *Drug Alcohol Depend.*  
1657 2014;136:69-78. doi:10.1016/j.drugalcdep.2013.12.017
- 1658 153. Levy S, Siqueira LM, Committee on Substance Abuse, et al. Testing for drugs of abuse in  
1659 children and adolescents. *Pediatrics.* 2014;133(6):e1798-e1807. doi:10.1542/peds.2014-0865
- 1660 154. Waller RC, Gomez-Luna S, Boyle MP, Fortuna LR, Hadland SE, Metz WP, eds. *The*  
1661 *ASAM Criteria: Treatment Criteria For Addictive, Substance-Related, and Co-occurring*  
1662 *Conditions, Volume 2: Adolescents and Transition-aged Youth.* 4th ed. Hazelden Publishing;  
1663 2026.
- 1664 155. *Confidentiality of Substance Use Disorder Patient Records* 42 CFR §2. Accessed May 4,  
1665 2026, <https://www.ecfr.gov/current/title-42/chapter-I/subchapter-A/part-2>
- 1666 156. New York State Office of Addiction Services and Supports. OASAS Guidance on  
1667 Administrative or Involuntary Patient Discharges from Opioid Treatment Programs. New York  
1668 Office of Addiction Services and Supports. Accessed April 3, 2026.  
1669 <https://oasas.ny.gov/system/files/documents/2024/02/otp-administrative-discharge-guidance.pdf>
- 1670 157. Agency for Healthcare Research and Quality. *Methods Guide for Effectiveness and*  
1671 *Comparative Effectiveness Reviews.* 2018.
- 1672 158. Page MJ, McKenzie JE, Bossuyt PM, et al. The PRISMA 2020 statement: An updated  
1673 guideline for reporting systematic reviews. *BMJ.* 2021;372:n71. doi:10.1136/bmj.n71
- 1674 159. RAND. Delphi Method. Accessed February 9, 2026.  
1675 <https://www.rand.org/topics/delphimethod.html>
- 1676 160. GRADE Working Group. Welcome to the GRADE Working Group. Accessed February 9,  
1677 2026. <https://www.gradeworkinggroup.org/>
- 1678 161. Sterne JAC, Savovic J, Page MJ, et al. RoB 2: A revised tool for assessing risk of bias in  
1679 randomised trials. *BMJ.* 2019;366:14898. doi:10.1136/bmj.l4898
- 1680 162. Sterne JA, Hernan MA, Reeves BC, et al. ROBINS-I: A tool for assessing risk of bias in  
1681 non-randomised studies of interventions. *BMJ.* 2016;355:i4919. doi:10.1136/bmj.i4919
- 1682 163. Scottish Intercollegiate Guidelines Network (SIGN). Methodology checklist 4: Case-  
1683 control studies. Accessed February 9, 2026. <http://www.sign.ac.uk>
- 1684 164. Barker TH, Hasanoff S, Aromataris E, et al. The revised JBI critical appraisal tool for the  
1685 assessment of risk of bias for analytical cross-sectional studies. *JBI Evid Synth.* 2026;24(3):401-  
1686 408.
- 1687 165. Whiting PF, Rutjes AW, Westwood ME, et al. QUADAS-2: A revised tool for the quality  
1688 assessment of diagnostic accuracy studies. *Ann Intern Med.* 2011;155(8):529-536.  
1689 doi:10.7326/0003-4819-155-8-201110180-00009

1690

1691

## 1692 **Appendix A. Glossary of Terms**

1693 **Addiction:** A treatable chronic medical disease involving complex interactions among brain  
1694 circuits, genetics, the environment, and an individual’s life experiences. People with addiction  
1695 use substances or engage in behaviors that become compulsive and often continue despite

1696 harmful consequences. Prevention efforts and treatment approaches for addiction are generally as  
1697 successful as those for other chronic diseases (see substance use disorder).

1698 **Administrative discharge:** Staff- or program-directed involuntary termination of treatment  
1699 services.<sup>156</sup>

1700 **Confirmatory testing:** In contrast to presumptive testing, testing performed using a method with  
1701 high sensitivity that is able to identify specific drugs, their metabolites, and/or drug  
1702 concentrations. Confirmatory testing, sometimes referred to as definitive testing, is likely to take  
1703 place in a laboratory and each individual test can be expensive. Gas or liquid chromatography  
1704 combined with mass spectrometry is the gold standard method in confirmatory drug testing. (See  
1705 **also: Presumptive testing**)

1706 **Contingency management:** An evidence-based psychosocial intervention in which patients are  
1707 given tangible rewards to reinforce positive behaviors such as treatment participation or  
1708 abstinence.

1709 **Drug testing:** The process of analyzing a biological specimen to check for the presence of  
1710 chemicals that indicate exposure to selected substances.

1711 **Expected drug test results:** Drug test findings that align with the patient’s self-report or known  
1712 history. (See **also: Unexpected drug test results**)

1713 **False negative:** The analytical failure to detect the presence of a drug or drug metabolite that is  
1714 present in the specimen. A false negative on a screening immunoassay test can be discovered by  
1715 confirmatory testing using GC-MS or LC-MS/MS testing when these tests are used on samples  
1716 that have screened negative.

1717 **False positive:** The reporting of a positive drug or drug metabolite that is not present in the  
1718 specimen. A false positive on a screening immunoassay test is often discovered by confirmation  
1719 testing using GC-MS or LC-MS/MS testing. False positives can be caused by cross reactivity,  
1720 improper or delayed storage, or other changes in the sample.

1721 **Fixed testing schedule:** A predictable time when drug testing will occur, such as every Monday  
1722 or every 10 days. (See **also: random testing schedule**)

1723 **General healthcare setting:** A widely defined term in this document indicating a setting where  
1724 healthcare is provided that is not primarily an addiction treatment service.

1725 **Limit of detection:** The lowest concentration of a substance or metabolite that a drug test can  
1726 reliably detect.

1727 **Matrix (matrices):** The biological material used for analysis in a drug test. Examples include  
1728 blood, urine, oral fluid (spit/saliva), hair, nails, sweat, meconium, and breath.

1729 **Metabolite:** A product of metabolism or metabolic process. Urine drug tests often evaluate the  
1730 presence of one or more metabolites that can originate from a substance used.

1731 **Negative Test Result:** The result reported by a test that fails to detect the presence of a target  
1732 substance in a sample. This can indicate either a complete lack of the drug or drug metabolite or  
1733 a level below the tests limit of detection or reporting threshold. (See also: **Positive test result,**  
1734 **True negative test results, False negative test results, Expected drug test result, Unexpected**  
1735 **drug test result**)

1736 **Observed urine drug testing:** A procedure in which an observer watches a patient urinate into a  
1737 specimen collection container with the intent of preventing tampering and specimen substitution.  
1738 As used in this document, observed urine drug testing is not intended to include specimen  
1739 collection through an external (condom) or Foley catheter in acute care settings.

1740 **Positive Test Result:** The result reported by a test that detects the presence of a target substance  
1741 in a sample. (See also: **Negative test result, True positive test results, False positive test**  
1742 **results, Expected drug test result, Unexpected drug test result**)

1743 **Presumptive Testing:** In contrast to definitive testing, testing performed using a method with  
1744 high sensitivity which establishes preliminary evidence regarding the absence or presence of  
1745 drugs or metabolites in a sample. The results of presumptive tests are qualitative in that they  
1746 detect the presence or absence of a particular compound, but not their quantity. Immunoassays  
1747 are good at identifying true negative samples (high sensitivity) and are therefore well suited for  
1748 use as a screen to eliminate cases from further analysis. (See also: **Confirmatory testing**)

1749 **Quantitative Testing:** A quantitative test is one that measures the quantity of a particular  
1750 compound in a sample. Most chromatography/mass-spectrometry techniques are quantitative;  
1751 However quantitative information is not always reported.

1752 **Random Testing Schedule:** A recurring drug testing plan with varying amounts of days between  
1753 testing that cannot be predicted. A random schedule can eliminate “safe” periods where a patient  
1754 might choose to use substances without detection. (See also: **Fixed testing schedule**)

1755 **Sample/specimen:** The biological substrate that is submitted to be tested.

1756 **Sample tampering:** This term refers to any deliberate attempt to falsify drug test results.  
1757 Examples of tampering would include dilution of the sample, adulteration through addition of  
1758 various substances to the sample, or substitution with a sample from another person.

1759 **Sensitivity:** Also called the “true positive rate” or the “recall rate” in some fields, sensitivity  
1760 measures the proportion of actual positives which are correctly identified as such (e.g., the  
1761 percentage of sick people who are correctly identified as having the condition). Sensitivity refers  
1762 to the likelihood that a given test is able to detect the presence of a drug or metabolite that is  
1763 actually in the specimen.

1764 **Specificity:** Measures the proportion of negatives that are correctly identified as such (e.g., the  
1765 percentage of healthy people who are correctly identified as not having the condition, sometimes  
1766 called the “true negative rate”). Specificity refers to the likelihood that a given test can identify  
1767 the specific drug or metabolite of interest in the specimen and not to erroneously identify other  
1768 drugs or metabolites.

1769 **Shared decision making:** A process in which clinicians work with patients to understand their  
1770 needs, preferences, and values when making decisions about their care

1771 **Trauma-informed care:** An approach where the system understands trauma's impact, recognizes  
1772 its signs, and integrates that knowledge into policies and practices to actively prevent re-  
1773 traumatization and foster recovery, focusing on safety, trust, choice, collaboration,  
1774 empowerment, and cultural sensitivity.

1775 **True positive drug test result:** A positive drug test finding that accurately indicates that the  
1776 patient providing the sample had a detectable amount of the targeted substance(s) or  
1777 metabolite(s) in their system when the sample was collected. (See also: **False positive drug test**  
1778 **result**)

1779 **True negative drug test result:** A negative drug test finding that accurately indicates that the  
1780 patient providing the sample was not exposed to the substance(s) targeted by the test within the  
1781 window of detection, or the amount remaining in the patient’s system was below the limit of  
1782 detection. (See also: **False negative drug test result**)

1783 **Unexpected drug test result:** Drug test findings that do not align with the patient’s self-report or  
1784 known history. Unexpected test results may occur when a patient is unaware of or chooses not to  
1785 report all the substances they have taken. They may also reflect false positive or false negative  
1786 results. (See also: **Expected drug test result**)

1787 **Universal drug testing:** Screening all patients in a given setting regardless of clinical  
1788 presentation or risk factors.

1789 **Validity testing:** A test used to determine if a specimen is adulterated, diluted, substituted, or  
1790 otherwise invalid.

1791 **Window of detection:** The range of time that a substance can be detected in a biological sample  
1792 given the cutoff reporting values for the test being performed. It refers both to the time to  
1793 detection (time to be absorbed and distributed to sample material) and time to clearance (time to  
1794 be metabolized/eliminated/excreted). A test conducted before the substance or its metabolites  
1795 have adequately entered the biological sample reads as negative. Each matrix and analyte has a  
1796 different window of detection, ranging from minutes to months.

1797

## 1798 **Appendix B. Abbreviations and Acronyms**

- 1799 AAAP - American Academy of Addiction Psychiatry
- 1800 AANP – American Association of Nurse Practitioners
- 1801 AAPA – American Academy of Physician Associates
- 1802 AATOD - American Association for the Treatment of Opioid Addiction
- 1803 ACAAM - American College of Academic Addiction Medicine
- 1804 ACEP - American College of Emergency Physicians
- 1805 ACMT - American College of Medical Toxicology
- 1806 ACOG - American College of Obstetrics and Gynecology
- 1807 ACOG - American College of Obstetricians and Gynecologists
- 1808 ADHD - attention deficit hyperactivity disorder
- 1809 AHRQ - Agency for Healthcare Research and Quality
- 1810 AI/AN - American Indian/Alaska Native
- 1811 AOAAM - American Osteopathic Academy of Addiction Medicine
- 1812 APA - American Psychiatric Association
- 1813 ASAM - American Society of Addiction Medicine
- 1814 ASI - Addiction Severity Index
- 1815 ASSIST - Alcohol, Smoking, and Substance Involvement Screening Test
- 1816 CFR - US Code of Federal Regulations
- 1817 CM - contingency management
- 1818 COCHS - Community Oriented Correctional Health Services
- 1819 CPG – clinical practice guideline
- 1820 CPG-MOS – ASAM’s Clinical Practice Guideline Methodology Oversight Subcommittee
- 1821 CPS - child protective services
- 1822 DSM-IV - Diagnostic and Statistical Manual of Mental Disorders, 4th Edition
- 1823 ED - emergency department

- 1824 FAVOR - Faces and Voices of Recovery
- 1825 FDA - US Food and Drug Administration
- 1826 GC-MS - Gas chromatography-mass spectrometry
- 1827 GCS – Glasgow Coma Scale
- 1828 HIPAA - Health Insurance Portability and Accountability Act
- 1829 HIV - human immunodeficiency virus
- 1830 IA – immunoassay
- 1831 JBI - JBI Critical Appraisal Tool for cross-sectional surveys
- 1832 LC-MS/MS - liquid chromatography-tandem spectrometry
- 1833 MOUD - Medications for Opioid Use Disorder
- 1834 MRO - Medical Review Officer
- 1835 NAADAC - National Association for Alcoholism and Drug Abuse Counselors
- 1836 NAATP – National Association of Addiction Treatment Providers
- 1837 NASW - National Association of Social Workers
- 1838 NCCHC – National Commission of Correctional Healthcare
- 1839 NIDA - National Institute on Drug Abuse
- 1840 NIH – National Institutes of Health
- 1841 NOWS - Neonatal Opioid Withdrawal Syndrome
- 1842 OD – overdose
- 1843 OTP - Opioid Treatment Program
- 1844 OUD - opioid use disorder
- 1845 PCP - Primary Care Physician
- 1846 PICO - Population, Intervention, Comparator, Outcome framework
- 1847 PRISMA - Preferred Reporting Items for Systematic reviews and Meta-Analyses standards
- 1848 PROSPERO - International Prospective Register of Systematic Reviews database
- 1849 PTSD - post-traumatic stress disorder
- 1850 PWLE - People with lived experience

- 1851 QIC - ASAM's Quality Improvement Council
- 1852 QUADAS - Quality Assessment of Diagnostic Accuracy Studies tool for the quality assessment
- 1853 for diagnostic testing studies
- 1854 RCT - randomized controlled trial
- 1855 RoB 2 - Cochrane Risk of Bias 2 tool for randomized trials
- 1856 ROBINS-I - Cochrane Risk of Bias tool for non-randomized studies
- 1857 SAMHSA - Substance Abuse and Mental Health Services Administration
- 1858 SCID - Structured Clinical Interview for DSM-IV disorders
- 1859 SIGN - Scottish Intercollegiate Guidelines Network (SIGN) Methodology Checklist 3: Cohort
- 1860 Studies
- 1861 SR - systematic literature review
- 1862 SUD - Substance Use Disorder
- 1863 TAP - Technical assistance publication
- 1864 TIC - Trauma-Informed Care
- 1865 TIP - Treatment Improvement Protocol
- 1866 TIP - Treatment Improvement Protocol
- 1867 UDS - Urine drug screening
- 1868 UDT - urine drug testing
- 1869 USU - Urban Survivors Union
- 1870 VA - US Department of Veterans Affairs
- 1871 WUDS - witnessed urine drug screens
- 1872 YPR - Young People in Recovery

## 1873 **Appendix C. Methodology**

1874 A systematic literature review (SR) was conducted to establish a foundation of evidence for the  
1875 recommendations in this Guideline. Methods followed current best practices for systematic  
1876 reviews from the Agency for Healthcare Research and Quality (AHRQ), including screening and  
1877 data extraction in duplicate, risk of bias assessment using standardized instruments, and a  
1878 synthesized narrative summary of findings.<sup>157</sup> In accordance with the Preferred Reporting Items  
1879 for Systematic reviews and Meta-Analyses (PRISMA) standards, the systematic review was  
1880 registered prospectively in the International Prospective Register of Systematic Reviews  
1881 (PROSPERO) database (Identification Number: CRD420250630066).<sup>158</sup>

1882 The SR informed the deliberations of a committee of experts, the expert committee, as they  
1883 developed consensus statements that consider an intervention’s clinical benefits and harms, as  
1884 well as patient values and preferences. ASAM’s QIC and CPG-MOS considered the body of  
1885 evidence to determine whether to develop a clinical practice guideline (CPG) or Consensus  
1886 Statement. As evidence was insufficient to support a CPG, a modified Delphi process was used  
1887 to develop clinical consensus statements.<sup>159</sup> As relatively little research has been published on  
1888 drug testing, this strategy allowed for the inclusion of guidance in areas with highly limited  
1889 evidence.

1890

### 1891 **Expert Committee and Patient Panel**

#### 1892 *Expert Committee Formation and Oversight*

1893 ASAM’s QIC and CPG-MOS oversaw the development of this Consensus Statement. The QIC,  
1894 working with a partner medical society (American College of Medical Toxicology- ACMT),  
1895 oversaw the appointment of clinicians with broad subject matter expertise across addiction  
1896 medicine and toxicology representing regional and demographic diversity to the expert  
1897 committee.

1898 Members of the CPG-MOS and ASAM’s Ethics Committee reviewed disclosures of interest. No  
1899 members of the expert committee had high level conflicts of interest in relation to the Clinical  
1900 Consensus topic.

#### 1901 *Patient Panel*

1902 ASAM reached out to patient facing organizations (Faces and Voices of Recovery, Young People  
1903 in Recovery, and Urban Survivors Union) and a QIC member referred several patients, to serve  
1904 on a panel of individuals with lived and living experience with drug testing (the Patient Panel).  
1905 The Patient Panel was engaged during the development process, providing input on the  
1906 following, in parallel with the expert committee:

- 1907 • Key clinical questions
- 1908 • Critical and important outcomes
- 1909 • Recommendation statements
- 1910 • Full text of the Guideline [in process]

1911 This feedback was considered prior to finalization.

1912 The Patient Panel met separately from the expert committee five times. The initial meeting with  
1913 the Patient Panel (August 2024) discussed the process and expectation. The second meeting  
1914 (October 2024) focused on receiving feedback on the key questions and outcomes. The third  
1915 meeting (March 2025) focused on receiving Patient Panel feedback on the literature review and  
1916 discussed the timeline. The fourth meeting (November 2025) focused on reviewing the  
1917 consensus statements draft and the fifth meeting (March 2026) focused on reviewing the  
1918 consensus statements.

## 1919 **Key Questions and Outcome Development**

1920 The objective of the literature review was to evaluate benefits and harms of drug testing for the  
1921 identification of substance use in medical settings, and the role of drug testing in substance use  
1922 treatment settings. The scope and key questions were determined in collaboration with the expert  
1923 committee, CPG-MOS, and QIC. The following key clinical questions were identified to be  
1924 addressed by the systematic review:

- 1925 1. In individuals with a clinical suspicion of either substance use or SUD, does drug testing  
1926 assist in the identification of substance use or SUD and change outcomes?
- 1927 2. In pregnant individuals, does drug testing improve the identification of substance use or  
1928 SUD or affect outcomes?
- 1929 3. In individuals in outpatient SUD treatment settings, how does drug testing affect  
1930 outcomes?
- 1931 4. In individuals in residential SUD treatment settings, how does drug testing affect  
1932 outcomes?
- 1933 5. In individuals in hospital-based SUD treatment settings, how does drug testing affect  
1934 outcomes?
- 1935 6. In incarcerated individuals, how does drug testing affect outcomes?
- 1936 7. How does the use of drug testing in clinical settings disproportionately affect  
1937 marginalized populations?

1938  
1939 These questions were used to develop a Population, Intervention, Comparator, Outcome (PICO)  
1940 framework for identifying relevant research literature to answer each of the key clinical  
1941 questions.

- 1942 • **Population:** Adult (18 years or older) or adolescent (10 to 17 years) individuals  
1943 undergoing care in any clinical setting (e.g., primary care, emergency departments, SUD  
1944 treatment centers). Additional subpopulations for inclusion will be 1) pregnant and 2)

- 1945 incarcerated individuals. We did not include children under 10 years or workplace drug  
 1946 testing.
- 1947 • **Intervention:** Drug testing for the purpose of identifying substance use in medical  
 1948 settings. And any intervention that includes drug testing as an active part of SUD  
 1949 treatment in a clinical setting. However, if a study includes drug testing, but there is no  
 1950 clear clinical use, the study will be excluded.
  - 1951 • **Comparator:** No drug testing
  - 1952 • **Outcome:** Substance use, treatment engagement and retention, adverse events, healthcare  
 1953 utilization (e.g., ED visits, hospital admission), and addiction medication.

1955 **Literature Review**

1956 The following databases were searched during October 2024: EMBASE, PsycINFO, and  
 1957 PubMed. The search was limited to controlled trials, cohort studies with a comparison condition,  
 1958 and systematic reviews of RCTs published in English on January 1, 2013, or later. Articles were  
 1959 reviewed in duplicate for inclusion at the title, abstract, and full-text levels (see Figure C1).  
 1960 Discussion and consensus between two research associates resolved uncertainty about article  
 1961 inclusion. Hand-searching for included publications was also completed. An overview of  
 1962 included articles is included in Table CX.

1963 **Table C1.** PubMed Search Strategy

Topic	Search String	Number of results	Filters: Human; English language
SUD + Drug Testing	((("drug testing"[Title/Abstract]) OR (substance abuse detection[MeSH Terms])) AND (substance related disorders[MeSH Terms])	4993	1819
Pregnancy + Drug Testing	(pregnan*[Title/Abstract] OR "pregnancy"[MeSH Terms]) AND (substance abuse detection[MeSH Terms] OR "drug testing"[Title/Abstract])	614	223

Health Disparities + Drug Testing	((("drug testing"[Title/Abstract]) OR (substance abuse detection[MeSH Terms])) AND (((((((Prisoners[MeSH Terms]) OR (Incarceration[MeSH Terms]))) OR (((((((Ethnicity [MeSH terms]) OR (Minority Groups [MeSH terms])) OR (Black or African American [MeSH terms])) OR (Hispanic or Latino [MeSH terms])) OR (Ethnic and Racial Minorities [MeSH terms])) OR (Minority Health [MeSH terms])))) OR ((Sexual and Gender Minorities [MeSH terms])) OR ((Rural population [MeSH terms])) OR (((Socioeconomic factors [MeSH terms]) OR (Poverty [MeSH terms])) OR (Social class [MeSH terms])) OR (Income [MeSH terms]))) OR ((Disabled persons [MeSH terms])) OR ((Healthcare Disparities [MeSH terms]) OR (Health Disparate Minority and Vulnerable Populations [MeSH terms])))	956	311
Combine searches and remove duplicates		5598	2032

1964

1965 **Table C2.** PsycINFO Search Strategy

Topic	Search String	Filters applied: Human & English language
SUD + Drug Testing	S1: TI "drug testing" OR AB "drug testing" S2: TI ( "substance use" OR "substance dependence" OR addict* OR "drug abuse" OR "drug dependence" OR "opioid use" OR "opioid dependence" OR "alcohol use" OR "alcohol dependence" OR "cannabis use" OR "cannabis dependence" OR "heroin use" OR "heroin dependence" OR "cocaine use" OR "cocaine dependence" OR "methamphetamine use" OR "methamphetamine dependence" OR "substance related disorder" OR "substance use" ) OR AB ( "substance use disorder" OR "substance dependence" OR addict* OR "drug abuse" OR "drug dependence" OR "opioid use" OR "opioid dependence" OR "alcohol use" OR "alcohol dependence" OR "cannabis use" OR "cannabis dependence" OR "heroin use" OR "heroin dependence" OR "cocaine use" OR "cocaine dependence" OR "methamphetamine use" OR "methamphetamine dependence" OR "substance related disorder" OR "drug use" ) Search was (S1 + S2)	223
Pregnancy + Drug Testing	S1: TI "drug testing" OR AB "drug testing" S2: TI ( "substance use" OR "substance dependence" OR addict* OR "drug abuse" OR "drug dependence" OR "opioid use" OR "opioid dependence" OR "alcohol use" OR "alcohol dependence" OR "cannabis use" OR "cannabis dependence" OR "heroin use" OR "heroin dependence" OR "cocaine use" OR "cocaine dependence" OR "methamphetamine use" OR "methamphetamine dependence" OR	10

	<p>"substance related disorder" OR "substance use" ) OR AB ( "substance use disorder" OR "substance dependence" OR addict* OR "drug abuse" OR "drug dependence" OR "opioid use" OR "opioid dependence" OR "alcohol use" OR "alcohol dependence" OR "cannabis use" OR "cannabis dependence" OR "heroin use" OR "heroin dependence" OR "cocaine use" OR "cocaine dependence" OR "methamphetamine use" OR "methamphetamine dependence" OR "substance related disorder" OR "drug use" )</p> <p>S3: TI pregnan# or AB pregnan#</p> <p>Search was (S1 + S2 + S3)</p>	
<p>Incarcerated + Drug Testing</p>	<p>S1: TI "drug testing" OR AB "drug testing"</p> <p>S2: TI ( "substance use" OR "substance dependence" OR addict* OR "drug abuse" OR "drug dependence" OR "opioid use" OR "opioid dependence" OR "alcohol use" OR "alcohol dependence" OR "cannabis use" OR "cannabis dependence" OR "heroin use" OR "heroin dependence" OR "cocaine use" OR "cocaine dependence" OR "methamphetamine use" OR "methamphetamine dependence" OR "substance related disorder" OR "substance use" ) OR AB ( "substance use disorder" OR "substance dependence" OR addict* OR "drug abuse" OR "drug dependence" OR "opioid use" OR "opioid dependence" OR "alcohol use" OR "alcohol dependence" OR "cannabis use" OR "cannabis dependence" OR "heroin use" OR "heroin dependence" OR "cocaine use" OR "cocaine dependence" OR "methamphetamine use" OR "methamphetamine dependence" OR "substance related disorder" OR "drug use" )</p> <p>S3: TI (justice OR "drug court" OR delinquen* OR "institutional care" OR offenders OR incarcerated OR correction* OR court OR "legal system" OR prison*) or AB (justice OR "drug court" OR delinquen* OR "institutional care" OR offenders OR incarcerated OR correction* OR court OR "legal system" OR prison*)</p> <p>Search was (S1 + S2 + S3)</p>	<p>36</p>
<p>Health Disparities + Drug Testing</p>	<p>S1: TI "drug testing" OR AB "drug testing"</p> <p>S2: TI ( "substance use" OR "substance dependence" OR addict* OR "drug abuse" OR "drug dependence" OR "opioid use" OR "opioid dependence" OR "alcohol use" OR "alcohol dependence" OR "cannabis use" OR "cannabis dependence" OR "heroin use" OR "heroin dependence" OR "cocaine use" OR "cocaine dependence" OR "methamphetamine use" OR "methamphetamine dependence" OR "substance related disorder" OR "substance use" ) OR AB ( "substance use disorder" OR "substance dependence" OR addict* OR "drug abuse" OR "drug dependence" OR "opioid use" OR "opioid dependence" OR "alcohol use" OR "alcohol dependence" OR "cannabis use" OR "cannabis dependence" OR "heroin use" OR "heroin dependence" OR "cocaine use" OR "cocaine dependence" OR "methamphetamine use" OR "methamphetamine dependence" OR "substance related disorder" OR "drug use" )</p> <p>S3: TI (poverty OR income OR "social class" OR disable# OR rural OR ethnic OR minority OR black OR african OR hispanic OR latin# OR racial</p>	<p>23</p>

	OR asian OR "pacific islander" OR LGBTQ#) OR AB (poverty OR income OR "social class" OR disable# OR rural OR ethnic OR minority OR black OR african OR hispanic OR latin# OR racial OR asian OR "pacific islander" OR LGBTQ#) Search was (S1 + S2 + S3)	
--	--	--

1966

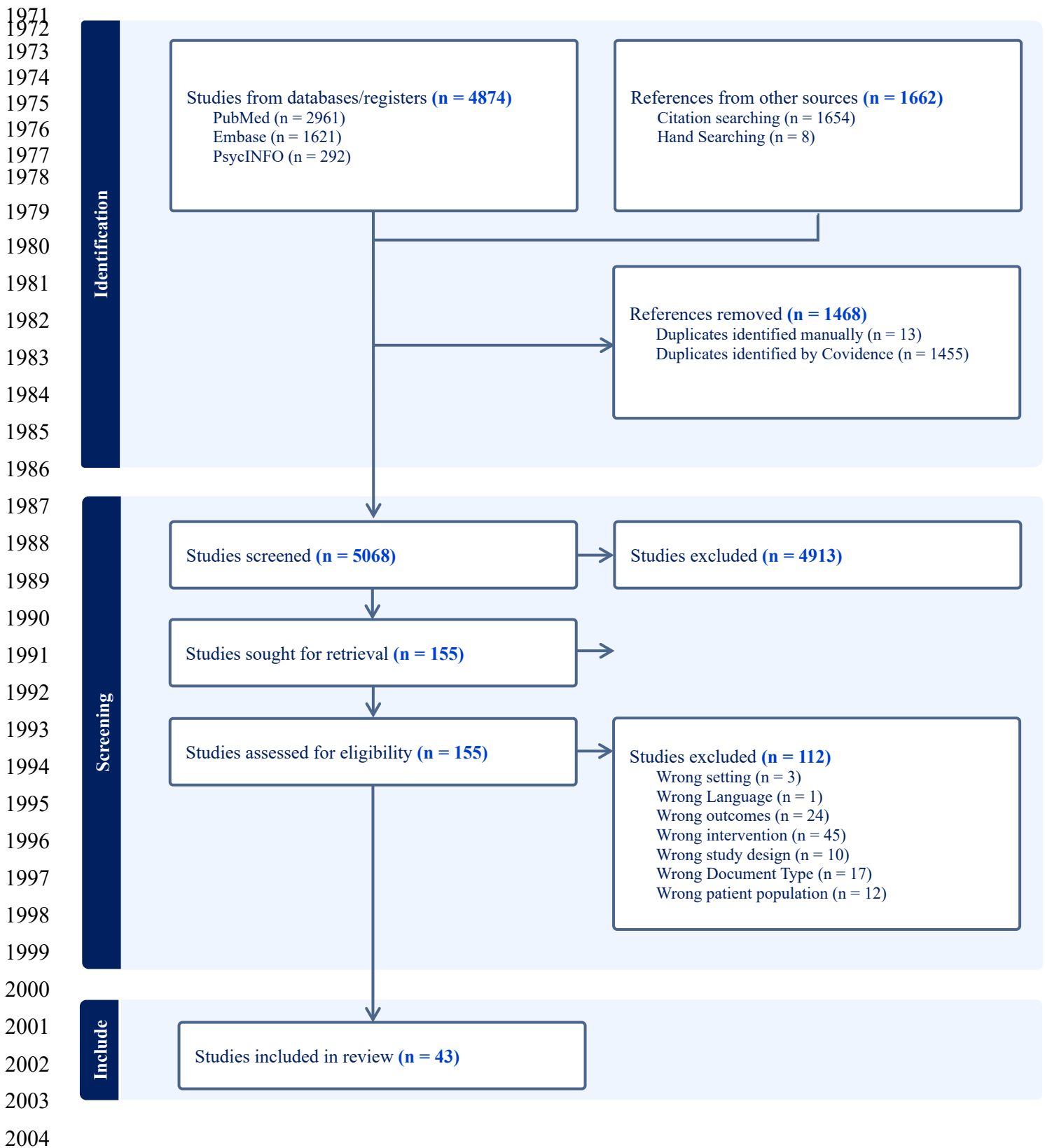
1967 **Table C3. EMBASE Search Strategy**

<b>Topic</b>	<b>Search String</b>	<b>Number of results</b>	<b>Filters applied: Human &amp; English language</b>
SUD + Drug Testing	('drug screening') AND ('drug dependence' OR 'substance abuse' OR 'alcoholism')	2997	1213
Pregnancy + Drug Testing	('drug screening') AND ('Pregnancy')	2098	438
Health Disparities + Drug Testing	('drug screening') AND ('prisoner' OR 'minority group' OR 'low socioeconomic status' OR 'rural population' OR 'sexual and gender minority' OR 'disabled person')	162	82

1968

1969

1970 Figure C1. PRISMA Chart



## 2005 **Evidence Review**

2006 All studies were assessed using the GRADE method and a risk of bias assessment was completed  
2007 for each included study (n = 43).<sup>160</sup> Quality was rated using the Cochrane Risk of Bias 2 (Rob 2)  
2008 tool for randomized trials.<sup>161</sup> For observational studies multiple tools were used for different  
2009 study types. The ROBINS-I and SIGN for observational cohort studies, JBI for cross sectional  
2010 surveys, and QUADAS for a study on diagnostic testing.<sup>162-165</sup> Studies that had no controls or  
2011 comparisons were not formally evaluated and given a high risk of bias rating.

2012 The expert committee was provided with key information about study methods, risk of bias  
2013 ratings, and narrative syntheses of the results for each intervention described in the literature  
2014 review. However, no evidence rose above low quality so a consensus process was used to  
2015 develop recommendations. Consensus statements were drafted based on discussions using the  
2016 evidence and voted on using a modified Delphi method.

## 2017 **Recommendation Development**

2018 The expert committee discussed the evidence and potential recommendations. A modified Delphi  
2019 process was used for developing consensus.

2020 The expert committee voted with one of the following options: agree, disagree, or abstain. Expert  
2021 committee members were permitted to abstain only if they have a conflict of interest or lack  
2022 expertise on the topic of the recommendation statement. Level of consensus was calculated as  
2023 follows:

- 2024 • 100% consensus was designated as “**Unanimous consensus**”
- 2025 •  $\geq 85\%$  consensus was designated “**Major consensus**”
- 2026 •  $\geq 70-84\%$  consensus was designated “**Moderate consensus**”
- 2027 • If less than 70% consensus was reached, a recommendation will not be made.

2028 The goal of the consensus process was unanimous consensus. After the initial round of voting,  
2029 the expert to committee met to discuss areas of disagreement, and additional rounds of voting  
2030 were conducted as necessary to reach consensus. If, at minimum, moderate consensus was not  
2031 reasonably achieved through this process, the recommendation was not adopted.

## 2032 **External Review**

2033 The Consensus Statement is undergoing an external review process prior to publication. ASAM  
2034 will invite major stakeholder organizations, partner organizations, relevant committees, and its  
2035 Board of Directors to provide comments, and work with partner organizations to broadly  
2036 disseminate a call for public comment. The Patient Panel will also be asked to provide feedback.  
2037 All comments will be combined into an Excel file and summarized by concern. Together with

2038 ASAM staff, the expert committee will review all comments and update the Consensus  
 2039 Statement as appropriate.

2040 **Table C.4 Overview of Included studies**

Study	Intervention	Comparison	Population	Design	N
<b>KQ1 Identification of Use</b>					
Akosile 2015	Drug Testing	Self-report vs urine drug screen (UDS)	Patients who went to ED, then psychiatric inpatient unit	Retrospective single group cohort with no controls	111
Ali 2023	Drug Testing	All ED visits vs ED visits with Positive UDS for fentanyl	Patients with SUD	Retrospective single group cohort with statistical controls	6,787
Desmarais 2013	Drug Testing	Drug Testing Hair, Drug Testing Urine	Adults with schizophrenia who used alcohol or drug	Secondary analysis of an RCT	1,460
Eisen 2004	Drug Testing	Glasgow Coma Scale 15 vs Glasgow Coma Scale <15	Patients in ED who had UDS	Observational Cohort	110
Erdmann 2015	Drug Testing	NA (cohort only)	Patients having a first psychotic episode or patients with respiratory failure, coma, seizures, or severe cardiac symptoms	Retrospective single group cohort with no controls	262
Fabbri 2003	Drug Testing	Screening available vs Not available	Patients with suspected drug OD	Within person randomized experiment	142
Gallagher 2016	Drug Testing	Pos-Phencyclidine (PCP), Pos-drug (not PCP), Neg drug but Pos Alcohol, Neg for both	Level 1 Trauma patients	Retrospective cohort with matched controls	156
Kroll 2013	Drug Testing	Negative UDS, Positive UDS	Patients receiving psych consults	Retrospective single group cohort with statistical controls	439
Mahoney 1990	Drug Testing	None	Patients in the ED with a drug overdose	Retrospective single group	176

Study	Intervention	Comparison	Population	Design	N
				cohort with no controls	
Murnion 2007	Drug Testing	ED vs Hospital inpatient	Hospital inpatients and ED patients	Retrospective single group cohort with no controls	171
Perloff 2018	Drug Testing	UDS Negative vs UDS Positive	Patients who needed a Neuro consult, in the ED	Retrospective cohort with comparison	194
Schiller 2000	Drug Testing	Usual care vs Mandatory screen	Patients attending psychiatric ED	RCT	392
<b>KQ2 Identification of Use, Pregnant individuals</b>					
Azimi 2025	Drug Testing	Pre vs Post policy change	Pregnant women	Retrospective cohort with comparison	9,396
Bailey 2024	Drug Testing	Maternal UDS, Maternal Self-report, Neonatal meconium or cord	Pregnant Women	Retrospective single group cohort with no controls	294
Chin 2022	Drug Testing	People with UDS vs People without UDS; UDS neg vs UDS Pos	Pregnant women	Retrospective single group cohort with statistical controls	6,265
Ellsworth 2010	Race & SES factors	Race, Insurance status	Mother & newborn	Retrospective single group cohort with statistical controls	2,121
Gersch 2023	Drug Testing	Dyads with Pos Maternal UDS vs Dyads w/Pos umbilical cord test vs Dyads with either test Pos vs Dyads with both test Pos	Mother-infant dyads	Retrospective cohort with matched controls	723
Goler 2008	Drug Testing	Screened Pos (assessed & treated) vs Screened Pos (assessed) vs Screened Pos (no assessment) Vs Screened Neg	Pregnant women	Retrospective cohort with comparison	49,985
Haizler-Cohen 2024	Drug Testing	NA (cohort only)	Pregnant Women	Retrospective single group	52

Study	Intervention	Comparison	Population	Design	N
				cohort with no controls	
Klawans 2019	Drug Testing	Physician-ordered UDS vs Universal UDS	Pregnant Women	Prospective single group cohort with no controls	275
Perlman 2022	Race & SES factors	Races, Insurance status	Pregnant or Postpartum women	Retrospective single group cohort with statistical controls	20,274
Peterson 2023	Drug Testing	Races, Insurance status	Pregnant women	Retrospective cohort with comparison	2,699
Roberts 2015	Drug Testing	Intervention hospital vs Comparison hospital	Pregnant women	Interrupted time series with nonequivalent control	46,046
Rubin 2022	Race Factors	Black vs White	Pregnant women	Retrospective cohort with comparison	3,494
Sarathy 2023	Drug Testing	Tested for Cannabis Indication vs Birthing Population	Pregnant women	Retrospective single group cohort with no controls	60,608
Siegel 2023	Drug Testing	NA (cohort only)	Pregnant women	Retrospective single group cohort with no controls	2,036
Son 2018	Drug Testing, Race & SES factors	Race, Insurance status	Pregnant women	Retrospective cohort with comparison	262
Wexelblatt 2015	Drug Testing	NA (cohort only)	Pregnant women	Retrospective single group cohort with no controls	2,956
Wood 2019	Drug Testing	At-Risk Cohort vs No Risk Identified	Newborns	Prospective cohort with comparison	857
<b>KQ3 Outpatient SUD</b>					
Dupouy 2013	Drug Testing	At least one drug test, No drug test	Patients starting opioid agonist treatment	Retrospective cohort with unmatched control group	1,507

Study	Intervention	Comparison	Population	Design	N
Griffin 2014	Drug Testing	Residential vs Outpatient vs Biological Drug Screening vs No treatment	Adolescents who received care for substance use	Secondary analysis	2,870
Kolla 2019	Drug Testing	NA (Cohort only)	Patients presenting for outpatient addiction assessment	Retrospective single group cohort with no controls	174
Lyle 2024	Drug Testing	Prescriber drug tests every visit vs Prescriber does not drug test every visit	Prescribers	Cross-sectional, Survey	377 Clinicians
Mallya 2013	Drug Testing	Pre- Witnessed UDS policy vs Post-Witnessed UDS policy	Patients with SUD	Single group pre-post	115
McKay 2016	Drug Testing	My First Year of Recovery (MyFYR) continuing care	Physicians with SUD	Prospective single group cohort with no controls	198
Michener 2024	Drug Testing	Neither random or observed UDS vs Random only vs Observed only vs Both random and observed UDS	Clinic level analysis (OTPs)	Cross-sectional, Survey	150 OTP clinics
Morin 2022	Drug Testing	UDS frequency: Monthly or less vs Biweekly vs Weekly vs More than weekly	Patients in opioid agonist treatment	Retrospective single group cohort with statistical controls	55,921
Vakili 2009	Drug Testing	All UDS tested vs Half of the UDS tested	Patients with SUD	Mixed-methods	229
<b>KQ4 Residential SUD</b>					
Griffin 2014	Drug Testing	Residential vs Outpatient vs Biological Drug Screening vs No treatment	Adolescents who received care for substance use	Secondary analysis	2,870
<b>KQ6 Incarcerated Individuals</b>					
Haapanen 2002	Drug Testing	(1) No routine testing (parolees were to be tested only after an arrest)	Parolees	RCT (Primary for Kilmer 2008)	1,958

Study	Intervention	Comparison	Population	Design	N
		(2) No routine testing but tested once or twice during Re-entry (3) Once every two months (Bimonthly), with one test a month (4) Once a month (Monthly), with one test every two weeks (5) Once every two weeks (Biweekly), with one test every week (weekly) during re-entry			
Kilmer 2008	Drug Testing	Drug Testing vs No Drug Testing	Parolees	Secondary analysis of RCT (Primary-Haapanen 2002)	1,958
Lovins 2024	Drug Testing	Drug testing frequency	Justice-involved individuals	Dataset (Adult Probation Dept in SW U.S.)	88,964
Nguyen 2021	Drug Testing	NA (cohort only)	Incarcerated individuals	Quasi-experimental	1,080

2041 **Abbreviations:** ED (Emergency Department); OTP (Opioid Treatment Program); RCT (Randomized Controlled  
 2042 Trial); SES (Social Economic Status); SUD (Substance Use Disorder); UDS (Urine Drug Screen)

2043 **Appendix D. Resources**

2044 **Validated Substance Use Screening and Assessment Tools**

2045 [Screening and Assessment Tools Chart](#) | NIDA

2046

2047 **Educational Resources**

2048 [Clinical Drug Testing in Primary Care TAP 32](#) | SAMHSA

2049 [StatPearls Clinical Drug Testing](#) | NIH

2050 [What the lab can and cannot do](#) | Kapur & Aleska 2020

2051 [Urine drug tests: ordering and interpretation](#) | Kale 2019

2052

2053 **Contingency Management**

2054 [Promoting Awareness of Motivational Incentives](#) | NIDA, SAMHSA Blending Initiative

2055 [Contingency Management for Substance Abuse Treatment: A Guide to Implementing this Evidence-Based Practice](#) | Nancy Petry

2057 [Contingency Management for Adolescent Substance Abuse: A Practitioner’s Guide](#) | Henggeler  
2058 et al

2059 Rash, C. J. (2023). Implementing an evidence-based prize contingency management protocol for  
2060 stimulant use. *Journal of Substance Use and Addiction Treatment*, 209079.

## Appendix E. Disclosures of Interest

### A. 2026 Writing Committee Member Relationships with Industry and Other Entities

<b>Guideline Committee Member</b>	<b>Employment</b>	<b>Consultant</b>	<b>Speakers Bureau</b>	<b>Ownership/ Partnership/Principal</b>	<b>Institutional, Organizational or other financial benefit</b>	<b>Research</b>
Leslie R. Dye, MD, FACMT, FASAM, FACCT	OneFifteen	None	None	None	None	None
Diane Hindman, MD, PharmD, BScPhm, FAAP	HHS/ASPR/BARDA; Phoenix Children’s Hospital; University of Arizona Poison and Drug Information Center; Loyal Source Government Services	Expert Witness**	None	None	Arizona State University Southwest Interdisciplinary Research Center (SIRC) Adolescent Treatment Advisory Board	None
Michael A. Incze, MD, MEd	University of Utah	None	None	None	AMERSA Advocacy Committee; JAMA Internal Medicine	National Institutes of Health; Patient Centered Outcomes Research Institute
Kurt C. Kleinschmidt, MD	The University of Texas Southwestern Medical Center	Expert Witness**	None	Royal Caribbean (stock)	None	Centers for Disease Control and Prevention
Elizabeth E. Krans, MD, MSc	University of Pittsburgh	None	None	None	None	National Institutes of Health; Merck; Gilead
Lewis S. Nelson, MD, MBA (Co-Chair)	Florida Atlantic University	None	None	None	Society for Academic Emergency Medicine Board	None

<b>Guideline Committee Member</b>	<b>Employment</b>	<b>Consultant</b>	<b>Speakers Bureau</b>	<b>Ownership/ Partnership/Principal</b>	<b>Institutional, Organizational or other financial benefit</b>	<b>Research</b>
Jeanmarie Perrone, MD	Perelman School of Medicine at the University of Pennsylvania	None	None	None	None	Philadelphia Department of Public Health; Office of Public Safety Philadelphia; National Institute on Drug Abuse
Kelly S. Ramsey, MD, MPH, MA, FACP, DFASAM	Kelly S. Ramsey Consulting, LLC	Expert Witness**	None	Kelly S. Ramsey Consulting, LLC**	None	None
Andrew Seaman, MD	Better Life Partners; Oregon Health and Sciences University; Central City Concern	None	None	None	None	None
Evan S. Schwarz, MD, FACEP, FACMT, FASAM (Co-Chair)	University of California Los Angeles	Expert Witness**	None	None	American College of Medical Toxicology Board; American Board of Emergency Medicine	None
Sarah Spencer, DO, FASAM	Ninilchick Traditional Council Community Clinic	Opioids Response Network*	None	None	Homer Alaska Syringe Access Program	None
Silas W. Smith, MD, FACEP, FACMT	New York University Grossman School of Medicine	None	None	None	BMJ Best Practice US Expert Advisory Panel	National Institutes of Health; National Institute on Aging
Jason Wasche, DO, FASAM	California Department of Corrections and Rehabilitation	None	None	None	None	None

The above table presents relationships of the Drug Testing Writing Committee during the past 12 months with industry and other entities. These relationships are current as of the completion of this document and may not necessarily reflect relationships at the time of this document’s publication. A relationship is considered to be significant if the individual receives compensation which includes cash, shares, and/or anything else of value including direct ownership of shares, stock, stock options or other interest of 5% more of an entity or valued at \$10,000 or more (excluding mutual funds), whichever is greater. A relationship is considered to be modest if it is less than significant under the preceding definition. A relationship is considered to be unpaid if the individual does not receive monetary reimbursement.

\*\* Indicates significant relationship. \* Indicates modest relationship.

## B. 2026 ASAM Quality Improvement Council Relationships with Industry and Other Entities

Quality Improvement Council Member	Employment	Consultant	Speakers Bureau	Ownership/ Partnership/Principal	Institutional, Organizational or other financial benefit	Research
Itai Danovitch, MD, MBA, FAPA, DFASAM	Cedars-Sinai Medical Center	None	None	Workit Health*; Bexson Biomedical*	None	None
Michael P. Frost, MD, DFASAM, FACP	Wayspring	Camurus AB**	Braeburn Pharmaceuticals*	None	None	None
Cynthia Vuittonet, MD, FASAM, FACP	Jewish Renaissance Medical Center	None	None	None	None	None

The above table presents relationships of the ASAM Quality Improvement Council during the past 12 months with industry and other entities. These relationships are current as of the completion of this document and may not necessarily reflect relationships at the time of this document’s publication. A relationship is considered to be significant if the individual receives compensation which includes cash, shares, and/or anything else of value including direct ownership of shares, stock, stock options or other interest of 5% more of an entity or valued at \$10,000 or more (excluding mutual funds), whichever is greater. A relationship is considered to be modest if it is less than significant under the preceding definition. A relationship is considered to be unpaid if the individual does not receive monetary reimbursement.

\*\* Indicates significant relationship. \* Indicates modest relationship.

### C. 2026 ASAM Board of Directors Relationships with Industry and Other Entities

Board Member	Employment	Consultant	Speakers Bureau	Ownership/ Partnership/Principal	Institutional, Organizational or other financial benefit	Research
Hamad A. Al Ghafri, MD, MBBS, MPH, PhD	Delmon Consulting and Health Planning	None	None	None	Fakeeh Mental Health Advisory Board	None
Anika Alvanzo, MD, MS, FACP, DFASAM	Health Management Associates; Absolute Care	Uzima Consulting Group, LLC*	None	None	None	None
Nicholas Athanasiou, MD, MBA, DFASAM	Los Angeles County Department of Mental Health	None	None	None	None	None
James W. Berry, MD, FASAM	Northeast Occupational Exchange*	None	None	None	Maine Medical Association	None
Gregory X. Boehm, MD, DFASAM	Psych Services Inc.	None	None	None	None	None
Emily Brunner, MD, DFASAM	Gateway Recovery Center; Hazelden Betty Ford Foundation; Henry Ford Foundation	None	None	None	None	None

DRAFT FOR PUBLIC COMMENT – MAY/JUNE 2026

Board Member	Employment	Consultant	Speakers Bureau	Ownership/ Partnership/Principal	Institutional, Organizational or other financial benefit	Research
Niraj Chavan, MD, MPH, FACOG, FASAM	Saint Louis University	None	Vertex Pharmaceuticals*	None	American College of Obstetrics and Gynecology Board of Directors	None
Paula J. Cook, MD, FASAM	Moab Regional Hospital	None	None	None	None	None
Itai Danovitch, MD, MBA, FAPA, DFASAM	Cedars-Sinai Medical Center	None	None	Workit Health*; Bexson Biomedical*	None	None
Alta DeRoo, MD, MBA, FACOG, DFASAM	Hazelden Betty Ford Foundation	None	None	None	None	None
Michael Fingerhood, MD, FACP, DFASAM	Johns Hopkins Bayview Medical Center	None	None	None	None	None
Brian Hurley, MD, MBA, FAPA, DFASAM	Los Angeles County Department of Public Health; Brian Hurley, M.D. Private Practice	Community Health Centers; PsyBAR; APA; AAAP**	None	None	None	None
Lori D. Karan, MD, FACP, DFASAM	VA Healthcare System Loma Linda	None	None	None	None	None
Jason D. Kirby, DO, MBA, DFASAM	Recovery Centers of America	None	None	None	None	None
Marla D. Kushner, DO, FACOFP, FAOAM, FSAHM, DFASAM	Marla D. Kushner, DO, S.C.	None	None	Marla D. Kushner, DO, S.C.	None	None
Nicole Labor, DO, FASAM	Self-Employed	None	Braeburn Pharmaceuticals**	None	None	None
James P. Murphy, MD, DFASAM	Murphy Pain Center	None	None	Murphy Pain Center**	Greater Louisville Medical Society Foundation Board of Directors	None
Debra W. O'Beirne, MD, FASAM	Fairfax Co CSB	None	Gilead*	None	None	None
Cara A. Poland, MD, MEd,	Michigan State University College of Human Medicine	None	None	None	None	None

DRAFT FOR PUBLIC COMMENT – MAY/JUNE 2026

Board Member	Employment	Consultant	Speakers Bureau	Ownership/ Partnership/Principal	Institutional, Organizational or other financial benefit	Research
FACP, DFASAM						
Surita Rao, MD, FASAM	University of Connecticut School of Medicine	None	None	None	None	None
Stephen M. Taylor, MD, MPH, DFAPA, DFASAM	Pathway Healthcare, LLC	None	None	None	None	None
Kristine Torres- Lockhart, MD, FASAM	Phoenix Houses of New York and Long Island	None	None	None	None	None
Michael F. Weaver, MD, DFASAM	University of Texas Health Science Center at Houston	None	None	None	American Board of Preventive Medicine	University of Texas Health Science Center at Houston; Novo Nordisk
Timothy Wiegand, MD, FACMT, FAACT, DFASAM	University of Rochester School of Medicine and Medical Center	None	None	None	Medical Toxicology Foundation; New York Department of Health Aids Institute*	None

The above table presents relationships of the ASAM Board of Directors during the past 12 months with industry and other entities. These relationships are current as of the completion of this document and may not necessarily reflect relationships at the time of this document’s publication. A relationship is considered to be significant if the individual receives compensation which includes cash, shares, and/or anything else of value including direct ownership of shares, stock, stock options or other interest of 5% more of an entity or valued at \$10,000 or more (excluding mutual funds), whichever is greater. A relationship is considered to be modest if it is less than significant under the preceding definition. A relationship is considered to be unpaid if the individual does not receive monetary reimbursement.

\*\* Indicates significant relationship. \* Indicates modest relationship.