

Opioid Review and MAT Clinic Urine Drug Screens Why, When, and How to Interpret

January 31, 2018

Learning Objectives

- Identify the importance of the urine drug screen and confirmatory testing
- Assess unexpected urine results

Urine Drug Screens

- Why
- When
- How to interpret
- Advantage of the witnessed urine



Basic Procedures

- Ask patient when they last took medicine prior to test
- Do not allow patients to bring bags or other items into the urine test bathroom
- Have colored water in the toilet bowl
- Preferably have a room where the water can be turned off
- Make sure they have an up to date care plan



Why

- Ensure patient is actually taking their medication
- To confirm patient is not taking other illicit substances
- Confirm that a patient who has a care giver setting up their pills is receiving the proper medication

When

- Any patient that is being newly started on narcotics or other controlled substances
- When suspicion of misuse is reported
- If patient is high risk for abuse, randomly as the physician or provider feels necessary
- At every visit for Suboxone follow-up
- If there are concerns of diversion
- Patient is attempting frequent early refills

Witnessed Urine

- Much more likely to be accurate
- Can be random
- Necessary part of any program with patients on chronic pain medications or Suboxone (in our opinion)



How to Interpret

- Urine is as expected
- Unexpected urine
 - Urine does not show the medication the patient is taking
 - Wrong prescription medication
 - Illicit substance
 - Adulterated urine
 - It's not urine
 - Combination of a drug
 - Abnormal temperature

Component Results

Component	Value	Ref Range & Units	Status
UR CANNABINOID	PRESUMPTIVE POSITIVE (A)	NEG	Final
UR PHENCYCLIDINE	NEGATIVE	NEG	Final
UR COCAINE	NEGATIVE	NEG	Final
UR METHAMPHETAMINE	PRESUMPTIVE POSITIVE (A)	NEG	Final
UR OPIATE	PRESUMPTIVE POSITIVE (A)	NEG	Final
UR AMPHETAMINES	PRESUMPTIVE POSITIVE (A)	NEG	Final
UR BENZODIAZEPINE	NEGATIVE	NEG	Final
UR TRICYCLIC ANTIDEP	NEGATIVE	NEG	Final
UR METHADONE	NEGATIVE	NEG	Final
UR BARBITURATE	NEGATIVE	NEG	Final
URINE OXYCODONE	NEGATIVE	NEG	Final
UR PROPOXYPHENE	NEGATIVE	NEG	Final
UR BUPRENORPHINE	PRESUMPTIVE POSITIVE (A)	NEG	Final

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41-48 (addict) Print (1/1)

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How to Interpret

- When to order confirmatory testing
 - Order confirmation even on a negative test for a medication a patient is supposed to be on
 - Order confirmation on all positive unexpected results to prove they are not falsely positive
 - Benzodiazepines, especially if on Clonazepam



How to Interpret

- Have lab make available to all physicians metabolites of common medications
- Why are metabolites important



Quick Tip Metabolites

Drug	MedTox (+)	Confirm, Mayo	You Should See	Poss. Ratios
Codeine	Opiate	OPATU	* See note	?
Hydrocodone	Opiate	OPATU	Hydrocodone, hydromorphone, dihydrocodeine	2:1 to 1:10
Hydromorphone	Opiate	OPATU	Hydromorphone	itself
Morphine	Opiate	OPATU	Morphine, normorphine, hydromorphone	itself
Oxycodone	Oxycodone	OPATU	Oxycodone, oxymorphone, noroxycodone	2:1 to 1:10
Oxymorphone	Oxycodone	OPATU	Oxymorphone, 6- hydroxyl- oxymorphone	itself

NOTE: Codeine, you may see codeine, hydrocodone, hydromorphone, Norcodeine, and morphine

Quick Tip Metabolites

Drug	MedTox (+)	Confirm, Mayo	You Should See	Poss. Ratios
Buprenorphine	Buprenorphine	BUPM, 0.75 mL	Buprenorphine, norbuprenorphine	?
Fentanyl	NA	FENTU, 3 mL	Fentanyl, norfentanyl	?
Heroin	Opiate	6MAMU, 2.1 mL	6-monoacetylmorphine, morphine	>Morphine
Methadone	Methadone	MTDNU, 2.1 mL	Methadone, EDDP	
Tapentadol	NA	TAPEN, 0.1 mL	Tapentadol, N-desmethyltapentadol	
Tramadol	NA	TRAM, 0.1 mL	Tramadol, O-desmethyltramadol	

Approaching the Patient with Unexpected Urine Results

- Expected drug not present:
 - Prior to the test, you should have asked the patient what we're going to find in their urine
 - Ask the patient why the medication is not in their urine
 - Ask for an explanation
 - Ask where they got it, taper them, or give them a warning.

Approaching the Patient with Unexpected Urine Results

- Illicit substance is in the urine
 - Taper off
 - See if they qualify for substance use disorder to offer treatment

Approaching the Patient with Unexpected Urine Results

- Adulterated urine
 - Bring patient back for follow up and have witnessed urine
 - Social work to meet

Approaching the Patient with Unexpected Urine Results

- Refusal to give urine
 - Patient does not get refill of medication

Approaching the Patient with Unexpected Urine Results

- Combination of a drug