Urine Drug Test

REMITIGATE, LLC
Setting the standard!

Jeffrey Fudin, B.S., Pharm.D., FCCP | Nadia Shahzad, Pharm.D. | Nicholas W.D. Jarrett, Ph.D. ©

Urine Drug Screens vs. Definitive Testing

DIFFERENTIATING & INTERPRETING RESULTS

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My Professional Background

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Clinical Pharmacy Specialist & PGY2 Pain Residency Director; Albany NY
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Western New England University Colleges of Pharmacy
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Urine Drug Testing (UDT) Rationale

• Guidelines recommend UDT as standard of care when prescribing chronic opioid therapy, especially for CNCP\(^1\)\(^-\)\(^5\)
• Helps to ensure compliance and mitigate risk\(^1\)\(^-\)\(^5\)
  • Detects presence of illicit substances
  • Detects absence of prescribed medication
• Helps to justify continual prescriptions
• Supports clinician decision to discontinue controlled substance medication
The Unique UDT App

REMITIGATE, LLC
The Only Urine Drug Screen App

- Interprets results and provides comprehensive assessment; intuitive, simple, quick
- PC version offers print to chart/file/PDF
- Considers RX interactions, dose, false pos/neg
- Decreases guesswork and diminishes blame
- Support staff intervention frees provider time
- Report helps justify 3rd party payment for definitive testing

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REMITIGATE, LLC UDTapp, Patent Pending, 2015

Paindr.com

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UDT App - Terms of Service

Disclaimer, Terms and Conditions:

The PainDr UDT Application (the “UDTapp”) tool is developed and provided by NovaPain Associates, and all information contained therein is intended for use by qualified clinicians as an educational tool to assist in fair and practical interpretation of urine drug screen results. Results for each entity are based on peer reviewed literature and experience of the developers.

The UDTapp was developed as an informational tool to aid medical professionals and clinical/laboratory chemists. Final analysis and recommendations must be evaluated for each individual patient and use of the information for final patient care decisions must be carefully weighed by the treating clinician and should be discussed with the patient before implementing actionable medication changes and/or requiring alternative or additional therapeutic changes or recommendations.

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The Unique UDT App
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Best Practice Reminders

Consideration has been given to:
- Comprehensive patient or caregiver education
- Opioid or controlled substance agreement
- Risk Assessment (i.e. COMM®, DIRE®, ORT, PMQ, SOAPP-R®)
- Home naloxone (auto-injector, injection kit, intranasal)

Acknowledged, start UDTapp now

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Urine Drug Tools (immunoassay) PainDr.com

What medications are prescribed to the patient?

For combination products, select each relevant medication separately
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Urine Drug Tools (Immunoassay)  PainDr.com

What medications are prescribed to the patient?

For combination products, select each relevant medication separately.

Drug  Dose (mg/day)

- buprenorphine  0.48
- hydrocodone  20
- alprazolam  2
- nefazodone  225

Next

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Urine Drug Tools (Immunoassay)  PainDr.com

Please choose result from menu:

- Opiates (Cut-off ≤300ng/mL)  Negative
- Oxycodone Screen (Cut-off ≤100ng/mL)  Not ordered
- Benzodiazepines  Negative
- Amphetamines  Positive
- Barbiturates  Negative
- Cannabinoids  Positive
- Cocaine  Not ordered

Back  Next
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Urine Drug Tools (Immunoassay) PainDr.com

Please choose result from menu:
- Cocaine: Negative
- Fentanyl: Not ordered
- PCP (Phencyclidine): Positive
- Methadone: Negative
- Tapentadol: Not ordered
- Tramadol: Not ordered
- Buprenorphine: Negative

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Urine Drug Tools (Immunoassay) PainDr.com

Regarding hydrocodone (20 mg/day): is the patient taking it "as needed" or "around-the-

- Patient is taking as needed
- Patient is taking around the clock
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**Patient has RX for omeprazole 20mg PO QAM**
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Pt on dopamine derivative, carbidopa/levodopa 25/250 PO QID
Justifies false positive
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Urine Drug Tools (Immunoassay) PainDr.com

Recommendations:

PCP Test:
Positive result not unexpected because false positive, venlafaxine, detected. Click here for a full list of false positives. PainDr recommends discussing finding with patient, using clinical judgement, and if indicated, definitive testing by quantitative confirmation.

Barbiturates Test:
Negative result expected because no barbiturate was prescribed.

Benzodiazepines Test:
Negative result is not unexpected because the prescribed benzodiazepine(s) can provide a negative result. PainDr recommends discussing finding with patient, using clinical judgement, and if indicated, definitive testing by quantitative confirmation.

Buprenorphine Test:
Negative result expected because the dose of buprenorphine is too low for detection. PainDr recommends discussing finding with patient, using clinical judgement, and if indicated, definitive testing by quantitative confirmation.

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Urine Drug Tools (Immune Assay) PainDr.com

Recommendations:
Buprenorphine Test:
PainDr recommends testing for buprenorphine to monitor compliance.

In high risk patients, even with a negative urine screen, it is recommended to confirm results by chromatography for definitive testing including synthetic cannabinoids (Bath Salts) and synthetic cannabinoids (Spice). This is because synthetic cannabinoids generally are not revealed by immune assay in-office testing. Consider ordering other 'designer' or natural substances such as Kratom in high risk patients.

WARNING: RISK OF OPIOID TOXICITY INCLUDING RESPIRATORY DEPRESSION, OVERDOSE, AND DEATH ARE ELEVATED WHEN COMBINING OPIOIDS WITH BENOZODIAZEPINES OR BARBITURATES. IF CLINICALLY WARRANTED, CONSIDER TAPERING OPIOIDS OR THE SEDATIVE-HYPNOTIC.

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Interactions Between Pain Medications And Illicit Street Drugs

To prevent fatal drug-drug interactions, a clinician who suspects illicit drug use should rule out their presence before prescribing pain medications, as well as other commonly known CYP 450 inhibitors or inducers.

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Had a moderate hydrocodone dose been prescribed, with a NEGATIVE opiate result, recommendation would change...

Recommendations:

Opiates Test:
For semi-synthetic opioids, immunoassay cut-offs are higher than certain opioids such as morphine. This can result in a false negative test. This warning appears because the semi-synthetic drug ordered (with consideration to dose) is on the borderline of testing positive/negative. For this reason, a negative “opiate screen” by immunoassay may indicate a compliance issue. The patient may or may not be taking the medication as prescribed. PainDr advises clinical judgement and if indicated, definitive testing by quantitative confirmation.

In high risk patients, even with a negative urine screen, it is recommended to quantify results by chromatography for definitive testing including synthetic cathinone (B&H).

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Urine Drug Tools (Immunoassay)

Dehydroxylated Phenanthrenes:
- butorphanol
- hydrocodone
- hydromorphone
- levorphanol
- oxycodone
- oxymorphone
- naltrexone

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If hydrocodone dose was 60mg/day, with NEGATIVE opiate UDS...

Opiates Test:
For semi-synthetic opioids immunnoassay cut-offs are higher than certain opioids such as morphine. This can result in a false negative test. This warning appears because the semi-synthetic drug ordered (with consideration to dose) is on the borderline of testing positive/negative. For this reason, a negative “opiate screen” by immunnoassay may indicate a compliance issue. The patient may or may not be taking the medication as prescribed. PainDr advises clinical judgement and if indicated, definitive testing by quantitative confirmation.

If hydrocodone dose was 60mg/day, with POSITIVE opiate UDS...

Opiates Test:
For semi-synthetic opioids immunnoassay cut-offs are higher than certain opioids such as morphine. This can result in a false positive test. This warning appears because the semi-synthetic drug ordered (with consideration to dose) is on the borderline of testing positive/negative. For this reason, a positive “opiate screen” by immunnoassay may indicate that an opioid different than the prescribed medication could be present in the urine. PainDr advises clinical judgement and if indicated, definitive testing by quantitative confirmation.

Click here for a list of false positives. Additional unexpected positives may include morphine, codeine, heroin, and opium.

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How does this affect you?

Accurately found taking...
- more drug than prescribed
- an old prescription drug
- someone else’s prescription
- an illicit drug

Falsely accused of taking...
- unprescribed drug
- not taking prescribed drug
- taking illicit drugs

Definitive Chromatography test may be warranted

References