The Golden Rule: Why Urine Drug Monitoring is Good For Everyone

CASE PRESENTATIONS

Screening vs. Confirmation

Screening Tests

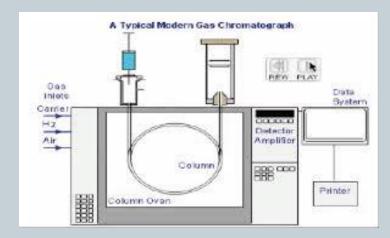
- o Urine Dipstick
- o Immunoassay
 - × Higher cut-off concentration
 - × Less sensitive
 - × High false positive
 - × High false negative



Screening vs. Confirmation

Confirmatory Testing

- Gas Chromatography Mass Spectroscopy (GCMS)
- Liquid Chromatography Mass Spectroscopy (LCMS)
 - Can detect very low levels (50ng/ml)
 - × Very sensitive and specific
 - × Eliminates false (+)/(-)



- 65 y/o caucasian female
- Medications prescribed:
 - Norco (hydrocodone/apap) 5/325 q4-6prn max 2/d

Alcohol-Urine	NEGATIVE Cutoff 100 mg/dL	
Amphetamine-Urine	NEGATIVE	Cutoff 500 ng/mL
Barbiturates-Urine	NEGATIVE	Cutoff 200 ng/mL
Benzodiazephines-Urine	NEGATIVE	Cutoff 200 ng/mL
Cocaine-Urine	NEGATIVE	Cutoff 150 ng/mL
Fentanyl-Urine	NEGATIVE	Cutoff 2 ng/mL
Heroin (6-AM)-Urine	NEGATIVE	Cutoff 10 mg/dL
Methadone-Urine	NEGATIVE	Cutoff 100 ng/mL
Opiates-Urine	POSITIVE	Cutoff 300 ng/mL

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Legend		SUM	MARY		
	Prescribed		Not Prescribed / Inconsistent		
 ✓ = Consistent × = Inconsistent ♦ = Prescribed 	✓ Norco [™]				
Test Ordered	here here and here here here here here here here her	Result	Cutoff	medMATCH [™]	Lab
PAIN MGMT, OPIAT	TES EXPAND, QN,W/medMA	TCH,U		Endnote 1	AP
Morphine		Negative	50 ng/mL		
Oxymorp	hone	Negative	50 ng/mL		
Hydromo	orphone	175 H	50 ng/mL	See Note 1	
Codeine		Negative	50 ng/mL		
Oxycodor	ne	Negative	50 ng/mL		
+ Hydrod	codone	153 H	50 ng/mL		

• 38 y/o caucasion female

- Medications prescribed
 - × Butrans patch (buprenorphine) 10mcg/hr patch qweek
 - × Valium 5mg (pre-procedure)
 - Took 2 tablets 4 days prior to the urine drug monitoring test

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Barbiturates-Urine	NEGATIVE Cutoff 200 ng/mL	
Benzodiazephines-Urine	POSITIVE	Cutoff 200 ng/mL
Cocaine-Urine	NEGATIVE	Cutoff 150 ng/mL
Fentanyl-Urine	NEGATIVE	Cutoff 2 ng/mL
Heroin (6-AM)-Urine	NEGATIVE	Cutoff 10 mg/dL
Methadone-Urine	NEGATIVE	Cutoff 100 ng/mL
Opiates-Urine	NEGATIVE	Cutoff 300 ng/mL
Oxycodone-Urine	NEGATIVE	Cutoff 100 ng/mL

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Legend	SUMMARY				
 ✓ = Consistent ✓ = Inconsistent ◆ = Prescribed 	P	rescribed	Not I	Prescribed / Inconsistent	
	Buprenorphine	Gabapentin			
Test Ordered		Result	Cutoff	medMATCH [™]	Lab
PAIN MGMT, BUPR	ENORPHINE, QN,W/medMA	TCH,U		Endnote 1	AP
Buprenor	phine	11.0 H	2 ng/mL		
* Norbup	orenorphine	11.6 H	2 ng/mL	See Note 1	
PAIN MGMT,BENZO	DDIAZEPINE, QN,W/medMA	TCH,U		Endnote 1	AP
Midazolar	n	Negative	50 ng/mL		
Alphahyd	roxyalprazolam	Negative	50 ng/mL		
Alphahyd	roxytriazolam	Negative	50 ng/mL		
Oxazepar	n	4147 H	50 ng/mL	See Note 2	
Lorazepar	n	Negative	50 ng/mL		
Nordiaze	pam	824 H	50 ng/mL	See Note 3	
Temazepa	am	2269 H	50 ng/mL	See Note 4	

• 81 y/o caucasion male

- Medications prescribed
 - × Oxycontin 20mg q12h rountinely
 - × Percocet 7.5/325 1 po q4-6h prn max 2/d
 - × Xanax 0.5mg 1 po prn severe anxiety
 - He takes 1 tablet occasionally for severe anxiety (max 15/month)

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Benzodiazephines-Urine	POSITIVE	Cutoff 200 ng/mL
Cocaine-Urine	NEGATIVE	Cutoff 150 ng/mL
Fentanyl-Urine	POSITIVE	Cutoff 2 ng/mL
Heroin (6-AM)-Urine	NEGATIVE	Cutoff 10 mg/dL
Methadone-Urine	NEGATIVE	Cutoff 100 ng/mL
Opiates-Urine	POSITIVE	Cutoff 300 ng/mL
Oxycodone-Urine	POSITIVE	Cutoff 100 ng/mL
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Legend		SU	JMMARY		
		Prescribed	Not I	Prescribed / Inconsistent	
 Consistent Inconsistent Prescribed 	✓ Oxycodone	✓ OxyContin™	× Alphahydroxyalpra	zolam	
Test Ordered		Result	Cutoff	medMATCH [™]	Lab
PAIN MGMT, FENT	ANYL, QN,W/medMATC	CH,U		Endnote 1	AP
Fentanyl		Negative	0.5 ng/mL		
Norfentar	nyl	Negative	0.5 ng/mL		
PAIN MGMT,BENZ	ODIAZEPINE, QN,W/med	dMATCH,U		Endnote 1	AP
Midazola	m	Negative	50 ng/mL		
Alphahyo	droxyalprazolam	3101 H	50 ng/mL	INCONSISTENT	
Alphahyd	roxytriazolam	Negative	50 ng/mL		
Oxazepan	n	Negative	50 ng/mL		
Lorazepar	m	Negative	50 ng/mL		
Nordiazej	pam	Negative	50 ng/mL		
Temazepa	am	Negative	50 ng/mL		
PAIN MGMT, OPIAT	TES EXPAND, QN,W/med	IMATCH,U		Endnote 1	AP
Morphine		Negative	50 ng/mL		
Oxymory	ohone	5534 H	50 ng/mL	See Note 1	
Hydromo	rphone	Negative	50 ng/mL		
Codeine		Negative	50 ng/mL		
Oxycoo	lone	10564 H	50 ng/mL		
Hydrocod	lone	Negative	50 ng/mL		

• 63 y/o caucasion female

- Medications proscribed
 - × Morphine Sulfate Extended Release 30mg 12h routinely
 - × Norco 7.5/325 1 po q6-8h prn max 2/d

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Legend		SUM	MARY		
		Prescribed	Not Prescribed / Inconsistent		
 Consistent Inconsistent Prescribed 	× Hydrocodone ✓ Morphine	× Norco TM			
Test Ordered		Result	Cutoff	medMATCH [™]	Lab
PAIN MGMT, AMPI	HETAMINES, QN,W/med	IMATCH,U		Endnote 1	AP
Ampheta	mine	Negative	250 ng/mL		
Methamp	hetamine	Negative	250 ng/mL		
PAIN MGMT, OPIAT	TES EXPAND, QN,W/me	dMATCH,U		Endnote 1	AP
Morph	ine	31903 H	50 ng/mL		
Oxymorp	hone	Negative	50 ng/mL		
Hydromo	orphone	565 H	50 ng/mL	See Note 1	
Codeine		Negative	50 ng/mL		
Oxycodor	ne	Negative	50 ng/mL		
 Hydroc 	odone	Negative	50 ng/mL	INCONSISTENT	

• 49 y/o caucasion female

- o Initial new patient urine drug testing
 - (screen and confirmation)

• Currently prescribed no medications

 Due to initial new patient evaluation and screening tests indicating high ORT and other risk factors, no opioids prescribed at her initial visit

Amphetamine-Urine	NEGATIVE	Cutoff 500 ng/mL
Barbiturates-Urine	NEGATIVE	Cutoff 200 ng/mL
Benzodiazephines-Urine	NEGATIVE	Cutoff 200 ng/mL
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Fentanyl-Urine	NEGATIVE	Cutoff 2 ng/mL
Methadone-Urine	NEGATIVE	Cutoff 100 ng/mL
Opiates-Urine	NEGATIVE	Cutoff 300 ng/mL
Oxycodone-Urine	NEGATIVE	Cutoff 100 ng/mL
Phenycylindine-Urine	NEGATIVE	Cutoff 25 ng/mL
Tapentadol-Urine	NEGATIVE	Cutoff 200 ng/mL
Tramadol-Urine	NEGATIVE	Cutoff 200 ng/mL
Cannabinoid-Urine	POSITIVE	Cutoff 100 ng/mL
Creatinine-Urine	Normal	Normal
pH-Urine	7.08	4.70-7.80
Oxidants-Urine	NEGATIVE	Negative
Specific Gravity-Urine	1.024	1.003-1.035

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Legend		UMMARY			
	Prescribed Not			rescribed / Inconsistent	
 ✓ = Consistent × = Inconsistent ◆ = Prescribed 			* Marijuana Metabolite	X Benzoylecgonir	ne
Test Ordered		Result	Cutoff	medMATCH TM	Lab
PAIN MGMT,MARIJ	UANA METAB QN,W/medMATCH,U			Endnote 1	AP
Marijuan	a Metabolite	333 H	5 ng/mL	INCONSISTENT	
PAIN MGMT, COCA	INE METAB, QN,W/medMATCH,U			Endnote 1	AP
Benzoyleo	gonine	782 H	100 ng/mL	INCONSISTENT	