

3703 Camino del Rio South 100-A
 San Diego, CA, 92108
 619-450-5870 - Phone
 619-450-6023 - Fax

CLIA# 05D2027247 - Director: David J. Smith, MD

Patient :		Acc #:	AL-OF-9875
Patient #:	Birth:		
Doctor:	Age: 60 years	Collection Date:	03/05/2019 11:37
	Gender: Male	Received in Lab:	03/07/2019 11:37

Drug Adherence Assessment Report

Prescribed Medications: ALBUTEROL (ProAIR HFA, VENTOLIN), ALPRAZOLAM (XANAX), ASPIRIN, DOCUSATE-SENNA, FLUTICASONE (FLONASE), METFORMIN (FORTAMET, GLUMETZA, GLUCOPHAGE, RIOMET, JANUMET), METOPROLOL (LOPRESSOR), MONTELUKAST (SINGULAIR), OMEPRAZOLE (PRILOSEC, ZEGERID), OXYCODONE (ROXYCODONE, OXYCONTIN)

CONSISTENT RESULTS - REPORTED MEDICATION DETECTED (PARENT DRUG AND/OR METABOLITE)

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
ALPRAZOLAM (XANAX)	⚠	Alprazolam	Positive	2-3 days (Plasma Half-Life: 6-27 hrs)
ALPRAZOLAM (XANAX)	⚠	Alpha-hydroxyalprazolam	Negative	2-3 days (Plasma Half-Life: 13-20 hrs)
OXYCODONE (ROXYCODONE, OXYCONTIN)	⚠	Oxycodone	Positive	1-2 days (Plasma Half-Life: 3-6 hrs)
OXYCODONE (ROXYCODONE, OXYCONTIN)	⚠	Noroxycodone	Negative	1-2 days (Plasma Half-Life: 3-6 hrs)
OXYCODONE (ROXYCODONE, OXYCONTIN)	⚠	Oxymorphone	Negative	1-2 days (Plasma Half-Life: 7.5-9.5 hrs)

INCONSISTENT RESULTS - REPORTED MEDICATION NOT DETECTED (NEITHER PARENT DRUG NOR METABOLITE)

REPORTED PRESCRIPTION	FLAG	ANTICIPATED POSITIVE(S)	TEST OUTCOME	DETECTION WINDOW
N/A		N/A	N/A	N/A

INCONSISTENT RESULTS - ANALYTE DETECTED BUT NO CORRESPONDING PRESCRIPTION REPORTED

REPORTED PRESCRIPTION	FLAG	ILLICIT	MEASURED RESULT	CUTOFF	TEST OUTCOME	DETECTION WINDOW
Caffeine	✓	No	14.00	5.00	Positive	Unknown (Plasma Half-Life: 5-6 hrs)

SPECIMEN VALIDITY TESTING

REPORTED PRESCRIPTION	TEST OUTCOME	MEASURED RESULT	UNITS	REFERENCE RANGE	ADDITIONAL MEDICATIONS REPORTED BUT NOT TESTED FOR IN THIS REPORT
N/A	N/A	N/A	N/A	N/A	ALBUTEROL (ProAIR HFA, VENTOLIN), ASPIRIN, DOCUSATE-SENNA, FLUTICASONE (FLONASE), METFORMIN (FORTAMET, GLUMETZA, GLUCOPHAGE, RIOMET, JANUMET), METOPROLOL (LOPRESSOR), MONTELUKAST (SINGULAIR), OMEPRAZOLE (PRILOSEC, ZEGERID)

3703 Camino del Rio South 100-A
 San Diego, CA, 92108
 619-450-5870 - Phone
 619-450-6023 - Fax

CLIA# 05D2027247 - Director: David J. Smith, MD

Patient :		Acc #:	AL-OF-9875
Patient #:	Birth: 10/23/1959		
Doctor:	Age: 60 years	Collection Date:	03/05/2019 11:37
	Gender: Male	Received in Lab:	03/07/2019 11:37

ADDITIONAL DETECTED ANALYTES

CAFFEINE (CAFCIT, ALERT)

Drug-Drug Interactions




 **ALPRAZOLAM (XANAX) & METOPROLOL (LOPRESSOR)** **MODERATE**

Many psychotherapeutic and CNS-active agents (e.g., anxiolytics, sedatives, hypnotics, antidepressants, antipsychotics, opioids, alcohol, muscle relaxants) exhibit hypotensive effects, especially during initiation of therapy and dose escalation. Coadministration with antihypertensives and other hypotensive agents, in particular vasodilators and alpha-blockers, may result in additive effects on blood pressure and orthostasis.

 **ALPRAZOLAM (XANAX) & OXYCODONE (ROXYCODONE, OXYCONTIN)** **MODERATE**

Concurrent use of opioids and other CNS depressants, such as benzodiazepines, may result in profound sedation, respiratory depression, coma, and/or death.(1)

SYMBOL LEGEND

-  Highly elevated risk for indicated condition or adverse drug reaction. Medication can be prescribed with monitoring; alternative therapy may be needed.
-  Moderately elevated risk for indicated condition or adverse drug reaction. Medication can be prescribed with monitoring; therapy adjustment may be needed.
-  Typical risk for indicated condition or adverse drug reaction. Medication can be prescribed according to standard dosing guidelines.

MODERATE Drug interactions of moderate severity. The clinician should assess the patient's characteristics and take action as needed.

SERIOUS Severe drug interaction or contraindicated drug combination which may produce serious consequences in most patients. This drug combination generally should not be dispensed or administered to the same patient. Action is required to reduce risk of severe adverse interaction.

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
1. ANALGESICS / OPIATES						
Acetaminophen	Negative	0	50.00	ng/mL	No	Consistent Result
Buprenorphine	Negative	0	10.00	ng/mL	No	Consistent Result
Codeine	Negative	0	50.00	ng/mL	No	Consistent Result
EDDP	Negative	0	5.00	ng/mL	No	Consistent Result
Fentanyl	Negative	0	10.00	ng/mL	No	Consistent Result
Hydrocodone	Negative	0	5.00	ng/mL	No	Consistent Result
Hydromorphone	Negative	0	5.00	ng/mL	No	Consistent Result
Levorphanol	Negative	0	5.00	ng/mL	No	Consistent Result
Meperidine	Negative	0	5.00	ng/mL	No	Consistent Result

3703 Camino del Rio South 100-A
 San Diego, CA, 92108
 619-450-5870 - Phone
 619-450-6023 - Fax

CLIA# 05D2027247 - Director: David J. Smith, MD

Patient :		Acc #:	AL-OF-9875
Patient #:	Birth:		
Doctor:	Age: 60 years	Collection Date:	03/05/2019 11:37
	Gender: Male	Received in Lab:	03/07/2019 11:37

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
Methadone	Negative	0	5.00	ng/mL	No	Consistent Result
Morphine	Negative	0	5.00	ng/mL	No	Consistent Result
N-Desmethyl-Tramadol	Negative	0	10.0	ng/mL	No	Consistent Result
Norbuprenorphine	Negative	0	50.00	ng/mL	No	Consistent Result
Norfentanyl	Negative	0	10.00	ng/mL	No	Consistent Result
Norhydrocodone	Negative	0	5.00	ng/mL	No	Consistent Result
Noroxycodone	Negative	0	5.00	ng/mL	No	Consistent Result
Norpropoxyphene	Negative	0	125.00	ng/mL	No	Consistent Result
O-Desmethyl-Tramadol	Negative	0	5.00	ng/mL	No	Consistent Result
Oxycodone	Positive	1329.00	5.00	ng/mL	No	Consistent Result
Oxymorphone	Negative	0	5.00	ng/mL	No	Consistent Result
Propoxyphene	Negative	0	5.00	ng/mL	No	Consistent Result
Tapentadol	Negative	0	10.00	ng/mL	No	Consistent Result
Tramadol	Negative	0	5.00	ng/mL	No	Consistent Result
2. BENZODIAZEPINES						
7-Aminoclonazepam	Negative	0	10.00	ng/mL	No	Consistent Result
Alpha-hydroxyalprazolam	Negative	0	5.00	ng/mL	No	Consistent Result
Alprazolam	Positive	5.00	5.00	ng/mL	No	Consistent Result
Clonazepam	Negative	0	5.00	ng/mL	No	Consistent Result
Diazepam	Negative	0	50.00	ng/mL	No	Consistent Result
Lorazepam	Negative	0	125.00	ng/mL	No	Consistent Result
Nordiazepam	Negative	0	10.00	ng/mL	No	Consistent Result
Oxazepam	Negative	0	10.00	ng/mL	No	Consistent Result
Temazepam	Negative	0	10.00	ng/mL	No	Consistent Result
3. ANTI-PSYCHOTICS						
Aripiprazole	Negative	0	5.00	ng/mL	No	Consistent Result
Chlorpromazine	Negative	0	5.00	ng/mL	No	Consistent Result
Clozapine	Negative	0	10.00	ng/mL	No	Consistent Result
Clozapine_N_oxide	Negative	0	50.00	ng/mL	No	Consistent Result
Fluphenazine	Negative	0	5.00	ng/mL	No	Consistent Result
Quetiapine	Negative	0	10.00	ng/mL	No	Consistent Result
Thioridazine	Negative	0	5.00	ng/mL	No	Consistent Result
Ziprasidone	Negative	0	50.00	ng/mL	No	Consistent Result

3703 Camino del Rio South 100-A
 San Diego, CA, 92108
 619-450-5870 - Phone
 619-450-6023 - Fax

CLIA# 05D2027247 - Director: David J. Smith, MD

Patient :		Acc #:	AL-OF-9875
Patient #:	Birth: 10/23/1959		
Doctor:	Age: 60 years	Collection Date:	03/05/2019 11:37
	Gender: Male	Received in Lab:	03/07/2019 11:37

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
4. ANTI-DEPRESSANTS / SSRI / SNRI / TCA						
Amitriptyline	Negative	0	10.00	ng/mL	No	Consistent Result
Bupropion	Negative	0	5.00	ng/mL	No	Consistent Result
Citalopram	Negative	0	5.00	ng/mL	No	Consistent Result
Doxepin	Negative	0	5.00	ng/mL	No	Consistent Result
Duloxetine	Negative	0	50.00	ng/mL	No	Consistent Result
Fluoxetine	Negative	0	50.00	ng/mL	No	Consistent Result
Mirtazapine	Negative	0	5.00	ng/mL	No	Consistent Result
O-Desmethyl-Venlafaxine	Negative	0	5.00	ng/mL	No	Consistent Result
Paroxetine	Negative	0	50.00	ng/mL	No	Consistent Result
Sertraline	Negative	0	5.00	ng/mL	No	Consistent Result
Trazodone	Negative	0	5.00	ng/mL	No	Consistent Result
Venlafaxine	Negative	0	5.00	ng/mL	No	Consistent Result
5. DEPRESSANTS						
Zolpidem	Negative	0	5.00	ng/mL	No	Consistent Result
Zopiclone-N-Oxide	Negative	0	250.00	ng/mL	No	Consistent Result
6. ANTI-CONVULSANTS						
10-11-Dihydro-10-Hydroxycarbamazepine	Negative	0	10.00	ng/mL	No	Consistent Result
Carbamazepine	Negative	0	5.00	ng/mL	No	Consistent Result
Gabapentin	Negative	0	50.00	ng/mL	No	Consistent Result
Lamotrigine	Negative	0	50.00	ng/mL	No	Consistent Result
Levetiracetam	Negative	0	10.00	ng/mL	No	Consistent Result
Oxcarbazepine	Negative	0	5.00	ng/mL	No	Consistent Result
Pregabalin	Negative	0	10.00	ng/mL	No	Consistent Result
Tiagabine	Negative	0	10.00	ng/mL	No	Consistent Result
Zonisamide	Negative	0	125.00	ng/mL	No	Consistent Result
7. MUSCLE RELAXANTS						
Carisoprodol	Negative	0	10.00	ng/mL	No	Consistent Result
Cyclobenzaprine	Negative	0	10.00	ng/mL	No	Consistent Result
Meprobamate	Negative	0	50.00	ng/mL	No	Consistent Result
8. STIMULANTS / ADHD						
Amphetamine	Negative	0	10.00	ng/mL	No	Consistent Result
Caffeine	Positive	14.00	5.00	ng/mL	No	Inconsistent Result
Methylphenidate	Negative	0	5.00	ng/mL	No	Consistent Result
Ritalinic Acid	Negative	0	5.00	ng/mL	No	Consistent Result
9. ANTIDOTES						
Naloxone	Negative	0	5.00	ng/mL	No	Consistent Result

3703 Camino del Rio South 100-A
 San Diego, CA, 92108
 619-450-5870 - Phone
 619-450-6023 - Fax

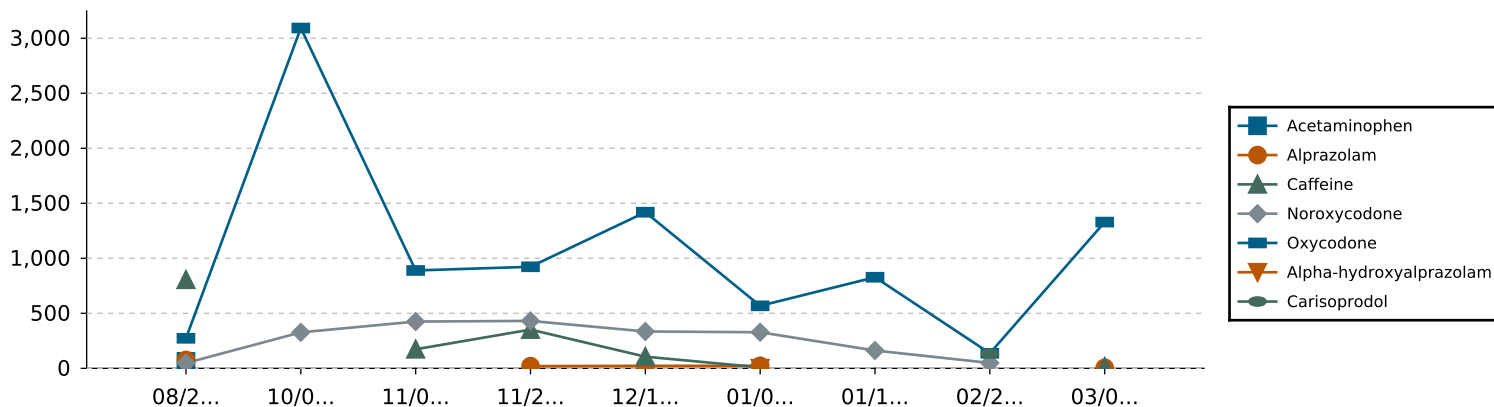
CLIA# 05D2027247 - Director: David J. Smith, MD

Patient :		Acc #:	AL-OF-9875
Patient #:	Birth:		
Doctor:	Age: 60 years	Collection Date:	03/05/2019 11:37
	Gender: Male	Received in Lab:	03/07/2019 11:37

Test Name	Outcome	Measured Result	Cutoff	Units	Illicit?	Status
10. ILLICITS						
AM2201 (Spice Cannabinoid)	Negative	0	10.00	ng/mL	Yes	Consistent Result
Benzoylcegonine	Negative	0	50.00	ng/mL	Yes	Consistent Result
Cocaine	Negative	0	5.00	ng/mL	Yes	Consistent Result
HU-210 (Spice Cannabinoid)	Negative	0	125.00	ng/mL	Yes	Consistent Result
JWH-019 (Spice Cannabinoid)	Negative	0	125.00	ng/mL	Yes	Consistent Result
JWH-073 4-Hydroxybutyl (Spice Cannabinoid)	Negative	0	10.00	ng/mL	Yes	Consistent Result
JWH-081 (Spice Cannabinoid)	Negative	0	125.00	ng/mL	Yes	Consistent Result
JWH-122 (Spice Cannabinoid)	Negative	0	125.00	ng/mL	Yes	Consistent Result
JWH-18-5-pentanoic acid (Spice Cannabinoid)	Negative	0	10.00	ng/mL	Yes	Consistent Result
JWH-18-5-pentanyl (Spice Cannabinoid)	Negative	0	5.00	ng/mL	Yes	Consistent Result
JWH-250-5OH-pentanyl (Spice Cannabinoid)	Negative	0	50.00	ng/mL	Yes	Consistent Result
MDA	Negative	0	50.00	ng/mL	Yes	Consistent Result
MDEA	Negative	0	10.00	ng/mL	Yes	Consistent Result
MDMA	Negative	0	50.00	ng/mL	Yes	Consistent Result
Methamphetamine	Negative	0	5.00	ng/mL	Yes	Consistent Result
PCP	Negative	0	5.00	ng/mL	Yes	Consistent Result
THC (Marijuana metabolite)	Negative	0	10.00	ng/mL	Yes	Consistent Result

Patient :		Acc #:	AL-OF-9875
Patient #:	Birth:		
Doctor:	Age: 60 years	Collection Date:	03/05/2019 11:37
	Gender: Male	Received in Lab:	03/07/2019 11:37

Historical Result Data



Comments:

This test was performed at Alcala Testing and Analysis Services (CLIA# 05D2027247). Dried Blood Spot specimens are analyzed using CleanAssure™ (patent pending) technology. In contrast to urine, in dried blood spot specimens (CleanAssure™ DBS) detection may be reduced (compound-specific). E.g. Morphine and Fentanyl exhibiting short plasma half-lives may require a follow up test with a urine specimen. In dried blood spot specimens parent drugs are often detected in higher concentrations than their metabolites commonly observed in urine specimens.

Morphine is a commonly detected metabolite among patients taking **Codeine**. **Hydromorphone** is a commonly detected metabolite among patients taking Hydrocodone and Morphine.

An active molecule of OPANA, **Oxymorphone** is a commonly detected metabolite among patients taking Oxycodone. **OPANA (Oxymorphone) will not metabolize to Noroxycodone or Oxycodone.**

Oxazepam is a commonly detected metabolite among patients taking **Diazepam, Nor-Diazepam or Temazepam**. Temazepam and Nor-Diazepam are commonly detected metabolites among patients taking **Diazepam**. **Alprazolam, Alpha-OH-Alprazolam, Clonazepam, and 7-amino-Clonazepam** are not detected in patients taking Diazepam, Nor-diazepam, Lorazepam, Oxazepam, and Temazepam.

Meprobamate is a commonly detected metabolite among patients taking **Carisoprodol** and its presence is consistent with the use of Carisoprodol.

Nortrimipramine, the metabolite of **Trimipramine**, may cause a false positive result for **Imipramine** in this assay. Trimipramine (brand name **Surmontil**) and its metabolite are not part of this assay. Trimipramine will be differentiated from other tricyclics, but its metabolite may cause interference with Imipramine.

An active (drug) or metabolite may be listed as a Negative Outcome, however, if either the active or any metabolite(s) are present (Positive), then the result is listed as Consistent for that reported prescribed medication.

In case of patients consuming HYDROCODONE-containing medications: **Norhydrocodone** is the major metabolite of **Hydrocodone** indicating presence of Hydrocodone in **urine**. While **Hydrocodone** can also be metabolized to **Hydromorphone**, identification of just **Hydromorphone** by itself is not a confirmation of Hydrocodone being present, since recent studies suggest that **urine specimens** of patients taking Hydrocodone always show presence of Hydrocodone or Norhydrocodone in combination with Hydromorphone.

3703 Camino del Rio South 100-A
San Diego, CA, 92108
619-450-5870 - Phone
619-450-6023 - Fax
CLIA# 05D2027247 - Director: David J. Smith, MD

Patient :		Acc #:	AL-OF-9875
Patient #:	Birth:		
Doctor:	Age: 60 years	Collection Date:	03/05/2019 11:37
	Gender: Male	Received in Lab:	03/07/2019 11:37

FOR PATIENT RESULTS INDICATING JUST THE PRESENCE OF HYDROMORPHONE: THIS MAY BE DERIVED FROM MORPHINE-CONTAINING PRESCRIPTION DRUGS OR HYDROMORPHONE-ONLY PRESCRIPTIONS (FOR EXAMPLE, DILAUDID).

Further reading: Valtier,S. and Bebarata,V.S. (2012) Excretion profile of hydrocodone, hydromorphone and norhydrocodone in urine following single dose administration of hydrocodone to healthy volunteers. J. Anal. Toxicol., 36, 507–14. and Barakat,N.H., Atayee,R.S., Best,B.M. and Ma,J.D. (2014) Observations of Urinary Hydrocodone and Metabolite Distributions in Pain Patients. J. Anal. Toxicol., 38, 129–134.)

REFERENCES for DRUG-DRUG-INTERACTIONS are available upon request.

Reviewed By: _____

Date: **03/11/2019 17:01** _____