

UPDATE

November, 2016



New Lab Test: RxAdhere Medication Safety Panel, Plasma

HOW TO ORDER RXADHERE MED SAFETY PANEL, PLASMA

- LAB 6520, RXADHERE MED SAFETYPANEL, PLASMA

EXECUTIVE SUMMARY

- RxAdhere is a blood test that qualitatively detects 203 medications used to treat common chronic conditions.
- Medication drug classes detected are shown in the attached handout.
- 24 hr. turn-around-time; available 7 days/week
- Lower limit of detection is 5% of a typical trough level for most medications; see *Graph 1* (back).
- Test method is LC-MS/MS (tandem mass-spectrometry)
- Clinical validation used 677 inpatient and outpatient specimens (IRB approved)

RXADHERE MEDICATION LIST

- All medications and drugs of abuse detected by RxAdhere are listed at the following website:
 - www.peacehealthlabs.org/rxadhere-medlist

RXADHERE UTILITY

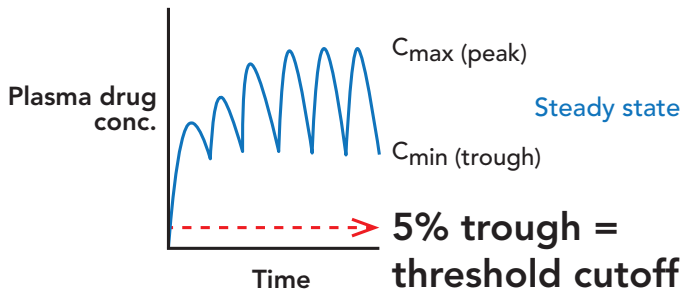
- Ensure Adherence
 - Patients on multiple medications
 - Patient not improving
 - Considering a medication dose change

- Considering adding or deleting medication(s)
- Change therapy plan
- Supplement to Medication Reconciliation
- Out of area patient – no access to medical record
- Patients with multiple physicians who are not part of health system
- Patients unable to communicate
- Patients non-adherent to their medications

EXAMPLES OF HOW RXADHERE COULD BE USEFUL

- Elderly patient is confused, can't give accurate med list – you wonder what they are really taking?
- Psychiatric patient symptoms persist despite meds – you wonder are they compliant with meds?
- Hypertension patient now on three meds but still has BP over goal. You are considering adding a fourth med but is the patient really taking the ones you already prescribed?
- CHF patient is admitted over and over again – are they taking the meds as prescribed?
- Pre-surgical patient with non-affiliated physicians and limited medication history

Graph 1: Concentration cutoff to determine positive or negative for each of the 203 medications



QUESTIONS?

Stephen Erfurth, PhD, DABCC/TC

Director, Science and Technology

541-687-2134 ext. 8092

800-826-3616 ext. 8092

serfurth@peacehealthlabs.org

Grant Beardsley, MS, MT (ASCP), NRCC/TC

Clinical Toxicologist and Manager, Drug Testing Services

541-687-2134 ext. 8137

800-826-3616 ext. 8137

gbeardsley@peacehealthlabs.org

SPECIMEN REQUIREMENTS

Collection	Lavender top tube (EDTA). Do not use serum or plasma separator tube. For hospital patients, it is recommended to obtain or use a lavender top blood specimen tube collected at or near the time of hospital admission. Standard Volume: 4 mL lavender whole blood; 1 mL EDTA plasma.
Handling	For hospital patients: <ul style="list-style-type: none"> Unless otherwise specified, the test is handled as an add-on to the first specimen collected at admission. Send lavender tube. Alternatively, centrifuge and separate EDTA plasma from cells and pour into a plastic vial. Transport ambient or refrigerated.
Stability, Whole Blood	Ambient: One week Refrigerated: Two weeks
Stability, Plasma	Ambient: One week Refrigerated: One month (plasma) Frozen: 1 year (plasma)
Standard Volume	4 mL EDTA whole blood; 2 mL plasma.
Minimum Volume	2 mL EDTA whole blood; 1 mL plasma.
Rejection Criteria	Unlabeled or mislabeled tube, insufficient specimen volume, serum (or plasma) separator tube.
Testing Schedule	Daily
Methodology	Liquid Chromatography Tandem Mass Spectrometry
Other	Detects 203 common medications, OTCs, and drugs of abuse in plasma. Plasma is the preferred specimen type.

REFERENCES

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