UPDATE

November, 2016

New Lab Test: RxAdhere Medication Safety Panel, Plasma

HOW TO ORDER RXADHERE MED SAFETY PANEL, PLASMA

■ LAB 6520, RXADHERE MED SAFETY PANEL, 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
**REFERENCES**


**QUESTIONS?**

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**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:**  
- 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: One year (plasma) |
|---|---|

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<tr>
<th>Standard Volume</th>
<th>4 mL EDTA whole blood; 2 mL plasma.</th>
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<tr>
<th>Minimum Volume</th>
<th>2 mL EDTA whole blood; 1 mL plasma.</th>
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<tr>
<th>Rejection Criteria</th>
<th>Unlabeled or mislabeled tube, insufficient specimen volume, serum (or plasma) separator tube.</th>
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<tr>
<th>Testing Schedule</th>
<th>Daily</th>
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<table>
<thead>
<tr>
<th>Methodology</th>
<th>Liquid Chromatography Tandem Mass Spectrometry</th>
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<th>Other</th>
<th>Detects 203 common medications, OTCs, and drugs of abuse in plasma. Plasma is the preferred specimen type.</th>
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