HealthPartners/GHI

Subject Drugs of Abuse Procedure (Urine Screening Only)	Attachments ☐ Yes ☒ No
Key words Urine drug screen, toxicology screen	**Number** GHI-PC-CLINIC LAB-Procedures-UA for Drugs of Abuse v. 11-2009
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Applicable Clinic Laboratory Staff	**Origination Date** **January 1998**
	Retired Date
Level of Complexity N/A	**Contact Laboratory Technical Consultants**
Review Responsibility Laboratory Technical Consultants	**Approved Date** **January 1998**
APPROVAL(S) Laboratory Medical Director	

PURPOSE/PRINCIPLE

Criteria based on temperature and specific gravity are used to accept/reject drug of abuse samples. These criteria may help reject tampered specimens with objective data.

POLICY

Laboratory Staff will follow the approved techniques outlined in this procedure.

Specimen:

Random urine

Equipment:

Thermometer

Atago Ur-1 Specific Gravity Meter

Quality Control:Biorad Urine Controls, Level 1 & Level 2

Chain of Custody Drug Screen Collections:

1. Non Federal/DOT/Legal chain of custody drug screens are collected at Regions Outpatient Department

- M-F 7:30 – 5:30. No evenings, weekends, or holidays.
- Clients **MUST** bring their own chain of custody forms. If a client does not have a chain of custody form, please refer the client back to the employer or person requesting the drug screen.

2. Federal/DOT/Legal drug screens are **NOT** collected at Regions Outpatient Department. Please refer the client back to the employer.

PROCEDURES

1. On the Atago Ur-1 Specific Gravity Meter, perform QC by running distilled water and either level 1 or 2 of the urine control (alternate levels each day of use). Refer to procedure below.
   - Verify that the controls are in range
   - Verify that the correct QC ranges are used. Refractometers and Clinitek QC ranges are different.
   - If a refractometer is unavailable, record the QC for specific gravity from the Clinitek daily QC.

2. Have patient collect sample via usual procedures. Notify patient to put specimen in pass through box immediately. The lab tech should *wait* for sample. Note if patient takes an "unusually" long time producing the sample.

3. Take the temperature of the sample within four minutes of collection. The temperature should be between 32.5 - 37.7 degrees C or 90.5 - 99.9 degrees F. Follow directions for the thermometer. Record temperature on the worksheet.

4. Analyze the specific gravity. The specific gravity should be between 1.003 - 1.035. Record specific gravity on the worksheet.

5. The specimen should be rejected if either the temperature or the specific gravity are not in the specified range. ***Both*** conditions must be met for an acceptable sample.

6. If the patient is unable to void, order the test and credit. This will provide a specimen collection history.

7. If sample is not acceptable, notify the provider. The provider has the option request the specimen be sent even if collection parameters are not met. If the provider does not want to send the specimen, credit the test.

8. Clean the refractometer with water after every patient test.

Hints:
Things commonly added to specimens are soap and sugar. Patient may be requested to leave coat, etc. in the drawing area.

Specific Gravity Procedure:
To perform SG measurements using the Atago digital refractometer, use the following procedure:

Zero Setting

1. Place a drop of water on the prism surface. Make sure that water covers the prism surface completely.
2. Press the zero setting switch firmly with a fingertip and release.
3. The display screen displays "000" after flickering 3 times.
4. Zero setting is now complete. Wipe off water on the prism surface completely with gauze or tissue.

Measure Sample

1. Place a drop of urine or control on the prism surface.
2. Press the Start/Off switch.
3. Specific gravity of urine or control displays after arrow mark flickers 3 times.
4. Wipe off the sample completely with gauze or tissue.

Refractometer/Atago Controls Troubleshooting:

Run distilled water and Urine Controls Level 1 and Level 2 each day of use. Document results on the Urinalysis Quality Control sheet.

1. If zero is not attained for the zero control, clean the analyzing surface and rerun with a fresh aliquot of water. Re-zero the Atago.
2. If Level 1 or Level 2 is out of range, verify that the lot number and range printed on the control sheet is recorded correctly. Verify the correct QC ranges have been used
3. If the control is unacceptable, verify that it is not expired.
4. If the Atago is inoperable, use the Clinitek Status and report if controls are in range and the patient result is between 1.005-1.030, or send specimen to another lab for the specific gravity result.
5. Notify a TC. Call the manufacturer for possible causes and recommendations.

Reminder: According to the Internal Quality Control Policy, if expected QC Values are not attained, patient results will not be reported until troubleshooting is complete.

PROCEDURE NOTES
NA

REFERENCES
AACC TDM-T, Vol II, No. 2, August 1989

RELATED DOCUMENTS
Pain Management Urine Drug Screen Time of Last Dose Procedure

APPENDIXES
NA

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IV. DEFINITIONS

V. COMPLIANCE

Failure to comply with this policy or the procedures may result in disciplinary action, up to and including termination.

VI. ATTACHMENTS

VII. OTHER RESOURCES

VIII. ENDORSEMENT

Laboratory Administration