

Compliance Issues in Off-Label Use of Blood Glucose Monitors



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I have nothing to disclose





Learning Objectives

- Discuss the CLIA requirements for waived tests and nonwaived tests
- Understand what is meant by modification of a laboratory test
- Describe compliance issues related to off-label testing and blood glucose meters





Waived Tests

- Cleared by FDA for home use;
- Employ methodologies that are so simple and accurate as to render the likelihood of erroneous results negligible; or
- Pose no reasonable risk of harm to the patient if the test is performed incorrectly.
- Minimum CLIA requirements for Waived testing follow manufacturer's instructions and meet the requirements in Subpart B, Certificate of Waiver





Nonwaived Tests

- Moderate complexity and high complexity tests
- The laboratory must follow:
 - All manufacturer's instructions <u>and</u>
 - Applicable CLIA regulations or those of their contracted accreditation organization(AO).
- State requirements (ex. Maryland, New York)

When in doubt, always follow the most stringent requirements





Why Waived Tests are so popular

- Allows for testing in any environment
 - Physician's office, Emergency services, Hospitals
- Performed at or near the patient
- Small sample used for testing
- Provider can make an immediate clinical management decision
- Permits the transfer(communication) of test result to the patient's medical record





Modification or "off-label" use of a laboratory test

- A "test system modification" of a laboratory test means any
- change in intended use,
- adjustments to the precautions,
- limitations
- changes to manufacturer's instructions
 ...that could affect test system
 performance specifications for; sensitivity,
 specificity, accuracy and precision.





Test Modification

- The laboratory modifies an FDA-cleared or approved test system
- Test is classified as "high complexity"
- All CLIA high complexity test regulations will apply
- This is not a new CLIA regulation





Blood Glucose Meters (BGM)

- Provide glucose results quickly
- Majority of meters approved and cleared for monitoring, not diagnosis (per the intended use in the manufacturer's package insert)
- Limitations and interferences i.e. contraindication for use, are stated in the package insert
 - Examples: Hematocrit, interactions with maltose, icodextrin





Compliance issue #1 Manufacturer's Instructions

- Used on virtually every patient, regardless of medical conditions or <u>limitations specified in</u> <u>package insert</u>
- Staff performing testing may or may not be aware of patient conditions that can interfere with the glucose tests
- Alternative test site Earlobe or forearm specimen, fingerstick only





Current BGM issues

- Problems exacerbated by constant turnover of employees
- Providers want to make timely clinical decisions regardless of the potential inaccuracies of the meters when used off-label
- Test system is used per manufacturer's instructions (as a waived test) and off-label (as a high complexity test)





Compliance issues Modification/off-label use

CLIA high complexity test regulations will apply

- Ensure correct CLIA certificate to perform testing
 - Certificate of Waiver upgraded to Certificate of Compliance or Certificate of Accreditation
- <u>Establish</u> performance specifications
- Perform proficiency testing
- Quality systems requirements
- Meet personnel qualifications and responsibilities
- Quality assessment





CLIA certificate

- Certificate of Waiver (CW) laboratory upgrades to a Certificate of Compliance or Certificate of Accreditation, i.e. physician's office, community clinic
- CW laboratory supported by a CoC or a CoA laboratory
 - CoC or CoA has carved out waived tests
- CoC or CoA that performs waived tests





Establish Performance Specifications

- accuracy (whether the test produces correct results)
- precision (whether the test result is reproducible when repeated),
- reference range (whether the normal range of results is based on the laboratory's specific patient population)





Performance Specifications

- reportable range (the lower and higher limits that the test can accurately report)
- analytic sensitivity (lowest concentration or amount of the analyte which must be present to be measured)
- analytic specificity (the extent to which the test measures the analyte for which it is reporting results), this includes interfering substances
- Any other performance characteristics required for test performance





Personnel qualifications and responsibilities

Subpart M: Personnel for Nonwaived Testing

- High complexity CLIA requirements
 - Laboratory Director
 - Technical Supervisor
 - Clinical Consultant
 - General Supervisor
 - Testing Personnel





Personnel qualifications

- Who are the testing personnel performing waived testing?
 - Nurses, Medical assistants, clinical nurse assistants
- Can those testing personnel meet the qualifications and experience required to perform high complexity testing?
- What alternative testing personnel are available to perform high complexity testing?





Laboratory Options for Blood Glucose Testing

- Use POC test systems that meet the intended use needs of the laboratory and do not have the same limitations and interferences as blood glucose meters
- Send glucose tests to main laboratory
 - Presents patient care issues due to volume of blood required, need for frequent testing & timeliness of test results
- Follow the manufacturer's instructions





Performance Specification Resources

- 42 CFR §493.1253 of the CLIA Interpretive Guidelines (IG)
- CLIA Brochure #2, "Verification of Performance Specifications" on the CLIA/CMS website
- Both resources are available on the CLIA website
 - www.cms.hhs.gov/CLIA

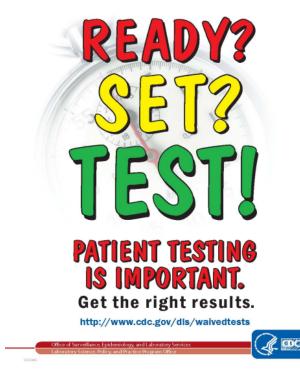




READY, SET, TEST

READY

TES



PATIENT TESTING IS IMPORTANT. Get the right results.

- Have the latest instructions for ALL of your tests.
- Know how to do tests the right way.
- Know how and when to do quality control.
- Make sure you do the right test on the right patient.
- Make sure the patient has prepared for the test.
- O Collect and label the sample the right way.
- Follow instructions for quality control and patient tests.
- Keep records for all patient and quality control tests.
- Follow rules for discarding test materials.
- Report all test results to the doctor.
- http://www.cdc.gov/dls/waivedtests









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Thank you for attending!

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Visit the Resource Room to get the CE code for this session.