

POSITION STATEMENT

Modernization of CLIA

February 2016

Introduction

Clinical laboratories are regulated by the Centers for Medicare and Medicaid Services (CMS) under the Clinical Laboratory Improvement Amendments (CLIA). The American Association for Clinical Chemistry (AACC) believes that CLIA has accomplished many of the objectives set forth by Congress. Under a uniform regulatory structure, there are mechanisms to assure test performance, standards for personnel performance, and mandated onsite inspections. In recent years, a number of stakeholders have urged the ‘modernization’ of CLIA, particularly in regards to the development and use of laboratory developed tests (LDTs).

Background

Concerns about CLIA Oversight of LDTs

In 1988, Congress passed CLIA to establish uniform regulation of laboratory testing, including mechanisms for assuring test performance and quality. The resulting regulations, which have been in effect since 1994, have remained largely unchanged. For the past two decades there have been increasing calls for enhanced federal oversight of LDTs from the in vitro diagnostics (IVD) industry, government advisory committees, consumer groups, and members of Congress. LDTs are currently regulated by CMS and its deemed accrediting bodies under CLIA and by the New York State Department of Health, which has its own LDT regulations.

Current CLIA Requirements

The Food and Drug Administration (FDA) defines an LDT as an “in vitro diagnostic test that is manufactured and used within a single laboratory” (1). CMS accepts this definition (2). In addition the

AACC POSITION:

The American Association for Clinical Chemistry recommends that CLIA remain the primary mechanism for overseeing clinical laboratories. The Association supports modernizing the laboratory standard to ensure that it continues to meet the changing needs of the healthcare community. Revisions to the regulations should particularly address the laboratory inspection process, quality control recommendations, proficiency testing requirements, and the definition of what constitutes an LDT.

agency considers any modification to an FDA cleared or approved assay as the creation of a new test and therefore an LDT. All LDTs are classified as high complexity tests, the most stringent category of testing under CLIA. Laboratories performing such testing must comply with rigorous quality control (QC), proficiency testing (PT), and personnel requirements and must demonstrate the test’s analytical validity. Although CLIA does not require clinical laboratories to establish clinical validity¹, the major private-sector accrediting organizations to which many laboratories conducting LDTs subscribe, such as the College of American Pathologists (CAP) and the Joint Commission, do require that laboratories document clinical validation.²

Proposed Changes to LDT Oversight

The FDA asserts that the Medical Device Amendments of 1976 have always given it the statutory authority to regulate LDTs. However, the agency has used its “enforcement discretion” to

1 Analytical validity is the ability of the laboratory to establish the technical performance of an assay.

2 Clinical validation is a process to demonstrate that a laboratory test is fit for its intended purpose in assisting physicians with medical decisions regarding their patients.

defer LDT oversight to CMS under CLIA (1). Some have called into question the FDA's claim of statutory authority (3).

The FDA argues that recent scientific and technological advances have caused the agency to change its opinion and that it now feels compelled to regulate LDTs, particularly tests that use multiple test panels and proprietary algorithms to assess the risk or prognosis of a disease (1). In October 2014, the FDA issued proposed guidance addressing perceived regulatory gaps in LDT oversight. The agency is recommending that laboratories performing LDTs comply with FDA pre-market review, post-market surveillance, and clinical validity requirements similar to those imposed on manufacturers, in addition to the high complexity standards they already meet under CLIA.

Stakeholder Response

AACC and many other stakeholders in the healthcare community have expressed concerns about the potential impact of the proposed FDA guidance on innovation, patient access to testing, and the practice of medicine. In response to the agency proposal, a number of groups are urging Congress and CMS to update the CLIA standards rather than expand FDA oversight. The American Hospital Association suggests that CLIA “be enhanced and modernized to address any gaps in oversight” (4). Similarly, the American Medical Association adds “the CLIA model of oversight has served as the engine of innovation...any modifications should involve CLIA enhancements” (5). Others in the laboratory community have also urged improvements to CLIA in lieu of greater FDA oversight of LDTs.

Considerations

Definition of a laboratory-developed test

Much of the discussion pertaining to laboratory developed tests focuses on how the tests should be regulated rather than what constitutes an LDT. It is clear that a new test developed and used in one laboratory without FDA clearance or approval is an LDT. However, there is considerable uncertainty around when a modification to an approved or

cleared test warrants the label of LDT. By current regulatory definitions, any such modification would warrant the label of LDT.

AACC recommends a definition of LDTs that is based on the clinical claims of the laboratory and manufacturer and which would restrict the application of the term for modified tests to those with new clinical claims:

“A laboratory-developed test is a new or significantly modified test that is developed, validated, and used within a laboratory in response to a specific patient-care need. It is performed by a CLIA licensed testing facility and is not packaged or sold as a kit to other testing facilities. Modifications to an FDA cleared or approved test that alter the laboratory's clinical claims about the intended use are considered significant and would constitute an LDT.”

Excluded from this LDT definition are:

- ▶ Operational changes to an FDA cleared or approved test that do not alter the laboratory's or manufacturer's clinical claim and/or test interpretation; and
- ▶ A test ordered and used off-label by a physician, which was performed by the laboratory according to manufacturer specifications or with modifications that did not alter the laboratory's claims about the intended use. This use of the test falls under the practice of medicine.

A more refined definition of LDTs may assist regulators and the laboratory community in assessing those tests that need additional oversight and those that do not. Regulators and Congress should work together to better define LDTs before moving forward with additional regulations.

Clinical Validity

Government, medical and professional societies, and consumer organizations are advocating that clinical laboratories demonstrate the clinical validity of LDTs prior to introducing these tests. CMS does not currently require clinical validation. The FDA has stated that it “has serious concerns regarding the lack of independent review of the evidence of clinical validity of LDTs” (1). This assertion is itself not entirely valid. More than 8,000 laboratories are

accredited by CAP or the Joint Commission (both deemed accrediting organizations under CLIA'88), both of which require clinical validation of any claim relating to the use of LDTs for patient care (6). The New York State Department of Health similarly requires that all laboratories licensed to perform testing for their residents provide evidence of clinical validity for each registered LDT. Such evidence can take a variety of forms, including published studies in the peer-reviewed literature and the use of clinical guidelines. Expanding clinical validity to all LDTs under CLIA appears to be a viable regulatory option that would achieve the goal of ensuring clinical validity without the prohibitive administrative burden of dual oversight by FDA and CMS.

Third Party Review

If CLIA is modified to require clinical validation of LDTs, CMS will need a mechanism for implementing this new requirement. There are a number of options available to the agency. CMS could hire and train the additional staff to review the laboratory validation data, utilize the existing processes already in place at CAP, the Joint Commission and New York State, and/or contract with third parties to conduct the reviews. The agency does not need to select only one method, but could choose to pursue a combination of the options.

Ensuring the Quality of LDTs

Some stakeholders have expressed concern that the current CLIA QC standards for LDTs are insufficient. A number of options have been suggested to address this concern. One pathway is to update the CMS Interpretative Guidelines for CLIA to provide testing facilities with additional guidance on design controls, such as risk management, clinical evaluation, and establishing test reliability. Another approach is for CMS and its accrediting organizations to ensure that CLIA inspection teams include member experts with the requisite expertise to evaluate laboratories performing LDTs, particularly specialized testing (e.g. next generation sequencing). These efforts are not mutually exclusive and, if adopted, could address concerns regarding LDT oversight within the context of the already rigorous CLIA regulatory framework.

Proficiency Testing

CLIA laboratories must participate in PT or develop an alternate means for evaluating test performance. PT is not available for many LDTs and there is currently no mechanism in place for adding or deleting new tests to the CLIA list of regulated analytes. Updating the PT process could enhance all laboratory testing, including LDTs.

Positions:

- ▶ AACC recommends CLIA remain the primary mechanism of regulating LDTs.
- ▶ CLIA should be updated to require laboratories to demonstrate that LDTs are clinically valid for use in medical decisions.
- ▶ AACC encourages CMS to credential third-party organizations to review a laboratory's clinical validation data for LDTs.
- ▶ Additional guidance from CMS to laboratories performing LDTs is recommended to help ensure that the results produced consistently meet clinical needs and expectations.
- ▶ AACC urges CMS and its deemed accrediting organizations to ensure that CLIA inspection teams include individuals with specialized method expertise to evaluate LDTs.
- ▶ CMS should update CLIA PT requirements to allow for the addition or deletion of required analytes subject to PT and to reevaluate the number of challenges and scoring criteria.
- ▶ AACC urges policymakers to define LDTs as 'new' or significantly modified tests for which the modification alters the clinical claims.

References

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