

ARUP Laboratories

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FDA Final Rule

"Medical Devices: Laboratory Developed Tests"

- Publicly available on April 29, 2024
- Published in Federal Register on May 6, 2024
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- "Effective Date" July 5, 2024 (60 days after issuance date)

https://www.federalregister.gov/public-inspection/2024-08935/medical-devices-laboratory-developed-tests

Presentation Notes

- 1) Slides Use Original FDA Wording as Much as is Practical
- 2) References to 4/29/24 Final Rule .pdf page #s shown at bottom right



The Rule

Makes it explicit that IVDs are devices under the FD&C Act including when the manufacturer is a laboratory

PART 809-IN VITRO DIAGNOSTIC PRODUCTS FOR HUMAN USE

(a) In vitro diagnostic products are those reagents, instruments, and systems intended for use in the diagnosis of disease or other conditions, including a determination of the state of health, in order to cure, mitigate, treat, or prevent disease or its sequelae. Such products are intended for use in the collection, preparation, and examination of specimens taken from the human body. These products are devices as defined in section 201(h) (1) of the Federal Food, Drug, and Cosmetic Act (the act), and may also be biological products subject to section 351 of the Public Health Service Act, including when the manufacturer of these products is a laboratory.

Definition Location¹

Addition²



The "Policies"

- 1. Phasing out its general enforcement discretion approach for LDTs so that IVDs manufactured by a laboratory will generally fall under the same enforcement approach as other IVDs
- 2. Adopting targeted enforcement discretion policies for specific categories of IVDs manufactured by a laboratory

Enforcement Discretion = "we have the authority" to regulate, but *choose* **not to**

Concept

The FDA is claiming the power to regulate <u>all</u> LDTs (as IVDs)

"The phaseout policy does not in any way alter the fact that it is **illegal** to offer IVDs without complying with applicable requirements" 1

BUT

The FDA "believe[s] an appreciable proportion of IVDs currently offered as LDTs <u>likely help patients</u> and are important to patient care...the loss of such IVDs could cause harm and undermine those reliance interests"²

SO

"It is in the best interest of public health to expect compliance with premarket review and QS requirements in a more targeted fashion"³

LDTs that specifically raise concerns

New LDTs

¹p30, p36; ²p61; ³p62



Targeted Enforcement Discretion

- "1976-type" LDTs
- Human leukocyte antigen (tests) for transplant

designed manufactured, and used within a single laboratory certified under CLIA that meets the requirements to perform high-complexity histocompatibility testing when used in connection with organ, stem cell, and tissue transplantation to perform HLA allele typing, for HLA antibody screening and monitoring, or for conducting real and "virtual" HLA crossmatch tests

Tests intended solely for law enforcement (forensic) purposes



Additional Enforcement Discretion

Veterans Health "generally not enforce requirements" **Administration** (VHA) and **Department of Defense (DoD)** LDTs approved by NYS CLEP "generally not enforce premarket For QS, see p48 review requirements" LDTs manufactured and performed by a laboratory "generally not enforce premarket integrated within a healthcare review requirements and QS system to meet an unmet requirements (except for requirements under part 820, subpart need of patients receiving M (Records)" care within the same healthcare facility

Additional Enforcement Discretion

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Currently marketed IVDs offered as LDTs that were first marketed prior to the date of issuance of this rule and that are **not modified**, or that are **modified in certain limited ways** as described in section V.B.3.

"generally not enforce <u>premarket review</u> requirements and <u>QS requirements</u> (except for requirements under part 820, subpart M (Records)"

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Non-molecular antisera
LDTs for rare red blood cell
(RBC) antigens where such tests
are manufactured in blood
establishments, including transfusion
services and immunohematology
laboratories where there is no alternative
available to meet the patient's need for a
compatible blood transfusion

"generally not enforce <u>premarket review</u> requirements and <u>QS requirements</u> (except for requirements under part 820, subpart M (Records)"



Final "Phase Out" Policy

Stage	Requirements	When
Stage 1	Medical device reporting (MDR) requirements, correction and removal reporting requirements, and quality system (QS) requirements under § 820.198 (21 CFR 820.198) (complaint files)	1 year May 6, 2025
Stage 2	Registration and listing requirements, labeling* requirements, and investigational use requirements *Includes UDI, part 801, subpart B	2 years May 6, 2026
Stage 3	QS requirements under part 820 (21 CFR part 820) (other than requirements under § 820.198 (complaint files)	3 years May 6, 2027
Stage 4 PMAs	Premarket review requirements for high-risk IVDs offered as LDTs (IVDs that may be classified into class III or that are subject to licensure under section 351 of the Public Health Service Act), unless a premarket submission has been received by the beginning of this stage	3.5 years Nov 6, 2027
Stage 5 510(k) and De Novo	Premarket review requirements for moderate-risk and low-risk IVDs offered as LDTs (that require premarket submissions), unless a premarket submission has been received by the beginning of this stage	4 years May 6, 2028

Requirement	Stage	Date	Pre- 1976	HLA for Tx	Forensic	VHA / DoD	NYCLEP	Unmet Need	Currently Marketed	Rare RBC Antigens	New LDT	Curr. Mod.*
MDR, Correction, Removal (§ 803 and § 806)	1	May 6, 2025	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Complaint Files (§ 820.198)	1	May 6, 2025	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Registration (§ 807)	2	May 6, 2026	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Listing (§ 807)	2	May 6, 2026	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Labeling (§ 809.10)	2	May 6, 2026	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Investig. Device (§ 812)	2	May 6, 2026	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Design Controls (§ 820.30)	3	May 6, 2027	No	No	No	No	Yes	No	No	No	Yes	Yes
Purchasing Controls (including supplier controls) (§ 820.50)	3	May 6, 2027	No	No	No	No	Yes (see p48)	No	No	No	Yes	Yes
Acceptance Activities (receiving, in-process, and finished device acceptance) (§ 820.80 and § 820.86)	3	May 6, 2027	No	No	No	No	Yes (see p48)	No	No	No	Yes	Yes
CAPA (§ 820.100)	3	May 6, 2027	No	No	No	No	Yes (see p48)	No	No	No	Yes	Yes
Records (part 820, subpart M)	3	May 6, 2027 (and see p74)	No	No	No	No	Yes (store now)	Yes (store now)	Yes (store now)	Yes (store now)	Yes	Yes
Premarket Review (high-risk); PMA	4	Nov 6, 2027	No	No	No	No	No	No	No	No	Yes	Yes
Premarket Review (mod / low-risk); 510k & De Novo	5	May 6, 2028	No	No	No	No	No	No	No	No	Yes	Yes
Private Information	Please send comments/edits to jonathan.genzen@aruplab.com. See Final Rule for exact requirements.								*Significant Modification			

Unmet Needs

LDTs manufactured and performed by a laboratory integrated within a healthcare system to meet an unmet need of patients receiving care within the same healthcare facility¹

Limitations

- FDA does <u>not</u> consider this to include patients that are being treated at an affiliated hospital with a different corporate ownership than the laboratory²
- Policy is <u>limited</u> to LDTs that are ordered by a healthcare practitioner on the staff or with credentials and privileges at a facility owned and operated by the same healthcare system employing the laboratory director and performing the LDT²

Unmet Need = When there is no available FDA-authorized IVD that meets the patient's needs.

- There is no FDA-authorized IVD for the disease or condition (for example, because it is for a rare disease or condition),
- There is an FDA-authorized IVD for the disease or condition but it is not indicated for use on the patient, or a unique attribute needs to be added to the LDT to meet the patient's needs, or
- There is an FDA-authorized IVD but it is not available to the patient³

o28; ²p54 o55



Unmet Need Examples

- 1. LDT intended for **cytogenetic analysis**...associated with **rare diseases or conditions**, certain **metals testing**, **viral load monitoring** for some **transplant-associated viruses**, or diagnosis of certain **mosquito- and tick-borne diseases**, <u>where there is no FDA-authorized IVD for that disease or condition</u>
- 2. An LDT to accommodate an **alternative specimen type** that is infrequently tested <u>when the specimen type required for the FDA-authorized IVD is not and cannot be made available</u>
- An LDT for use on pediatric patients when FDA-authorized IVDs are indicated for use on adults only
- 4. An LDT for the same indication as an FDA-authorized IVD that is offered only in another healthcare system that is **not accessible to the patient and the developing laboratory will not make the IVD available** outside its system
- 5. An LDT for an **emerging pathogen** for which there is no FDA-authorized IVD and for which the FDA has not identified an emergent situation



"potential **improvements in performance** or **lower cost** in comparison to an FDA-authorized IVD that meets the patient's needs does <u>NOT</u> fall within this policy"



"[When] FDA authorizes an IVD that meets the needs of the patient, then the LDT would **no longer** fall within this enforcement discretion policy"

p56-57



LDTs Currently on the Market

Currently marketed IVDs offered as LDTs that were first marketed prior to the date of issuance of this rule and that are <u>not modified</u>, or that are <u>modified</u> in <u>certain limited ways</u> as described in section V.B.3.¹

- FDA intends to request submission of the **labeling** for currently marketed IVDs as LDTs under § 807.26(e) and to use this information...to identify and address...LDTs that specifically raise concerns²
- Labeling includes IVD performance information and summary of supporting validation, as applicable³
- As part of its review of labeling, FDA also intends to look closely at claims of superior performance and whether those claims are adequately substantiated³
- FDA intends to enforce records requirements in part 820, subpart M, for manufacturing activities related to a currently marketed IVD offered as an LDT that occur after the date of issuance of this final rule⁴
- FDA expects laboratories to comply with applicable requirements other than premarket review and most QS requirements, including MDR requirements, corrections and removals reporting requirements, registration and listing requirements, and labeling requirements⁴

¹p29; ²p59; ³p64;

LDTs Currently on the Market - Modifications

FDA expects compliance with **premarket review** and **QS requirements** for currently marketed IVDs offered as LDTs when a laboratory's modifications:^{1,2}

- Change the indications for use of the IVD
- Alter the operating principle of the IVD (e.g., changes in critical reaction components)
- Include significantly different technology in the IVD

Examples

- addition of AI/ML
- change from targeted sequencing to WGS
- change from immunoassay to MS
- change from manual to automated
- Adversely change the performance or safety specifications of the IVD



¹p29; ²p63

Modifications of Other Manufacturer's Test

- FDA is adopting a policy under which it generally does not intend to enforce premarket review requirements for certain laboratory changes to another manufacturer's lawfully marketed test¹
 - · When a high complexity laboratory certified under CLIA modified Policy does another manufacturer's 510(k) cleared or de novo authorized test, not apply to following design controls and other quality system requirements described in section V.C.3, in a manner that could not significantly affect the safety or effectiveness of the test and does not constitute a major change or modification in intended use
 - FDA would expect premarket submissions...for the same types of changes that it would expect a premarket submission from the original manufacturer making changes to its own IVD

See § 807.81(a)(3) and "Deciding When to Submit a 510(k) for a Change to An Existing Device"

PMAs!

https://www.fda.gov/regulatory-information/search-fda-guidance-documents/deciding-when-submit-510k-change-existing-device



1976-Type LDTs

- Such tests have the following characteristics:¹
 - Use of manual techniques (without automation [and without the use of software]²) performed by laboratory personnel with specialized expertise
 - Use of components legally marketed for clinical use
 - Design, manufacture, and use within a single CLIA-certified laboratory that meets the requirements under CLIA for high complexity testing

Examples

- Immunohistochemistry tests that involve no automated preparation or interpretation¹
- Would <u>NOT</u> include lateral flow tests, as they do not generally rely on laboratory personnel expertise¹
- Various tests that use staining antibodies and general purpose reagents for cytology, hematology, and bacterial infections²

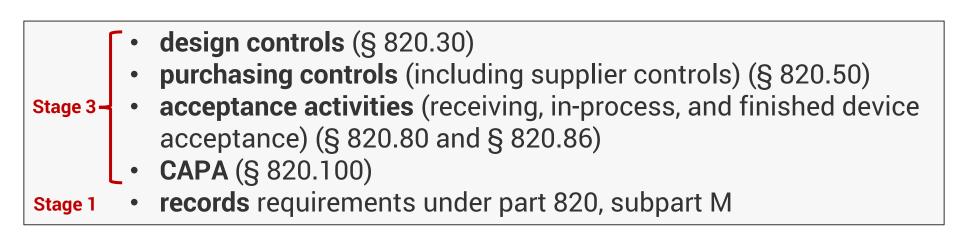
- Cystic fibrosis sweat tests²
- Certain colorimetric newborn screening tests²
- Certain immunohistochemistry tests²
- Karyotypic tests²
- Fluorescence in situ hybridization [FISH] ²

"FDA intends to <u>consider</u> whether guidance containing additional discussion and examples of tests that may fall within this category would be helpful..."



QS Requirements

- FDA recent rule amending QSRs takes effect Feb 2, 2026
- Better aligns with ISO 13485
- When a laboratory undertakes to comply with QS requirements, FDA will expect compliance with the QS requirements that are in effect at that time
- QS requirements applicable to CLIA lab LDTs include:



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Immediate Public Health Response

Draft Guidance

¹Docket No. FDA-2024-D-0083

Enforcement Policy for Certain In Vitro Diagnostic Devices for Immediate Public Health Response in the Absence of a Declaration under Section 564¹

- FDA does not intend to object to the offering of "immediate" response tests, as defined in this guidance, when the test is manufactured and offered by certain laboratory manufacturers, the test has been appropriately validated, FDA is notified, appropriate transparency is provided, the test is labeled for prescription use only, and there is no applicable 564 declaration
 - (1) intended to detect or diagnose a serious or life-threatening disease or condition that may be attributed to a newly identified, previously unknown, or unusual CBRN agent or agents; or a known agent or agents that results in a newly identified or unusual clinical presentation of such a disease or condition; and
 - (2) needed for immediate response to a potential case or cases of such disease or condition for which there is no adequate, authorized, and available alternative¹



Limited to certain tests and certain laboratories, such as those that are U.S. Government (USG) laboratories, State or local public health laboratories, or other laboratories that have agreements with the U.S.G.¹

Questions on the Final Rule

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For updated ARUP FDA LDT-related information go to:

aruplab.com/fda-ldt





A nonprofit enterprise of the University of Utah and its Department of Pathology

