The 510(k) Program: Evaluating Substantial Equivalence in Premarket Notifications [510(k)]

Guidance for Industry and Food and Drug Administration Staff

Document issued on: July 28, 2014

The draft of this document issued on December 27, 2011.

This document supersedes FDA's Guidance on the CDRH Premarket Notification Review Program, 510(k) Memorandum K86-3, dated June 30, 1986.

For questions for the Center for Devices and Radiological Health regarding this document, contact the Premarket Notification (510(k)) Section at 301-796-5640.

For questions for the Center for Biologics Evaluation and Research regarding this document, contact the Office of Communication, Outreach and Development at 1-800-335-4709 or 240-402-7800.



U.S. Department of Health and Human Services
Food and Drug Administration
Center for Devices and Radiological Health
Center for Biologics Evaluation and Research



Preface

Public Comment

You may submit electronic comments and suggestions at any time for Agency consideration to http://www.regulations.gov. Submit written comments to the Division of Dockets Management, Food and Drug Administration, 5630 Fishers Lane, Room. 1061, (HFA-305), Rockville, MD, 20852. Identify all comments with the docket number FDA-2011-D-0652. Comments may not be acted upon by the Agency until the document is next revised or updated.

Additional Copies

CDRH

Additional copies are available from the Internet. You may also send an e-mail request to <u>CDRH-Guidance@fda.hhs.gov</u> to receive a copy of the guidance. Please use the document number 1766 to identify the guidance you are requesting.

CBER

Additional copies are available from the Center for Biologics Evaluation and Research (CBER) by written request to the address below, by email request to the email address below, by calling the phone number below, or from the Internet at the webpage below:

Center for Biologics Evaluation and Research (CBER),

Office of Communication, Outreach and Development,

10903 New Hampshire Ave, Bldg. 71, Room 3128

Silver Spring, MD 20993, or by calling 1-800-835-4709 or 240-402-7800, by email ocod@fda.hhs.gov, or from the Internet at

http://www.fda.gov/BiologicsBloodVaccines/GuidanceComplianceRegulatoryInformation/default.htm.



Contains Nonbinding Recommendations

Table of Contents

I. Introduction	1
II. Background	2
A. The Medical Device Amendments and Device Classificati	ion 2
B. The 510(k) Classification Process	3
C. Evolution of the 510(k) Program	4
III. Scope	5
IV. The 510(k) Decision-Making Process	5
A. The 510(k) Review Standard	6
B. The Flowchart	10
C. Predicate Device(s)	10
D. Intended Use	15
E. Technological Characteristics	18
F. Requests for Performance Data	22
G. The 510(k) Summary	26
Appendix A. 510(k) Decision-Making Flowchart	27
Appendix B. The 510(k) Summary Document Requirements	28
Appendix C. Sample of 510(k) Summary Complying with 21	CFR 807.9233
Appendix D. Glossary of Significant Terminology	39



The 510(k) Program: Evaluating Substantial Equivalence in Premarket Notifications [510(k)]

Guidance for Industry and Food and Drug Administration Staff

This guidance represents the Food and Drug Administration's (FDA's) current thinking on this topic. It does not create or confer any rights for or on any person and does not operate to bind FDA or the public. You can use an alternative approach if the approach satisfies the requirements of the applicable statutes and regulations. If you want to discuss an alternative approach, contact the FDA staff responsible for implementing this guidance. If you cannot identify the appropriate FDA staff, call the appropriate number listed on the title page of this guidance.

I. Introduction

FDA developed this document to provide guidance to industry and FDA staff about current review practices for premarket notification (510(k)) submissions. The intent of this guidance is to identify, explain, and clarify each of the critical decision points in the decision-making process FDA uses to determine substantial equivalence. This guidance is not intended to implement significant policy changes to the current 510(k) review process. Rather, the intent of this guidance is to enhance the predictability, consistency, and transparency of the 510(k) program by describing in greater detail the regulatory framework, policies, and practices underlying FDA's 510(k) review.

The draft of this guidance document contained sections addressing FDA's Special and Abbreviated 510(k) programs. FDA intends to finalize those sections separately. Until FDA issues new final recommendations on the Special and Abbreviated 510(k) programs, the recommendations for Special and Abbreviated 510(k)s contained in "The New 510(k) Paradigm - Alternate Approaches to Demonstrating Substantial Equivalence in Premarket Notifications," dated March 20, 1998, (http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/ucm080187.htm) remain in effect.

FDA's guidance documents, including this guidance, do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidances means that something is suggested or recommended, but not required.



II. Background

A. The Medical Device Amendments and Device Classification

The Medical Device Amendments (MDA) (Pub. L. 94-295) to the Federal Food, Drug, and Cosmetic (FD&C) Act were enacted on May 28, 1976. The MDA directed FDA to issue regulations that classify all devices that were in commercial distribution at that time into one of three regulatory control categories: Class I, II, or III, depending upon the degree of regulation necessary to provide reasonable assurance of their safety and effectiveness. The class into which a device is placed determines the requirements that a medical device manufacturer must meet prior to distributing a device in interstate commerce. According to section 513(a)(1) of the FD&C Act (21 U.S.C. § 360c(a)(1)), the three device classes are defined as follows:

- Class I: Devices are subject to a comprehensive set of regulatory authorities called general controls that are applicable to all classes of devices. 1
- Class II: Devices for which general controls, by themselves, are insufficient to provide reasonable assurance of the safety and effectiveness of the device, and for which there is sufficient information to establish special controls to provide such assurance.²
- Class III: Devices for which general controls, by themselves, are insufficient and for which there is insufficient information to establish special controls to provide reasonable assurance of the safety and effectiveness of the device. Class III devices typically require premarket approval.³

Premarket notification is the process by which a new device, ⁴ i.e., a post-amendments device, is classified into one of these three device classes. ⁵ A manufacturer who intends to market in the United

⁵ By contrast, an unclassified devices, as defined in FDA's Guidance for Industry and Food and Drug Administration Staff, "Medical Device Classification Product Codes"



¹ General controls apply to all classes of medical devices and provide FDA with the means of regulating devices to assure their safety and effectiveness. General controls include but are not limited to provisions that relate to establishment registration and device listing; premarket notification, although most class I devices are exempt by regulation from this requirement; prohibitions against adulteration and misbranding; records and reports; and good manufacturing practices. Section 513(a)(1)(A) of the FD&C Act (21 U.S.C. § 360c(a)(1)(A)).

² The original definition of a class II device in the Medical Device Amendments of 1976 (Pub. L. 94-295) identified performance standards rather than special controls as the mechanism by which FDA could establish reasonable assurance of safety and effectiveness. The Safe Medical Devices Act of 1990 (Pub. L. 101-629) added "special controls," which can include the promulgation of performance standards as well as postmarket surveillance, patient registries, development and dissemination of guidelines (including guidelines for the submission of clinical data in premarket notification submissions), and other appropriate actions as FDA deems necessary to provide such assurance. Section 513(a)(1)(B) of the FD&C Act (21 U.S.C. § 360c(a)(1)(B)).

³ Certain types of devices classified into class III that were in commercial distribution in the United States before May 28, 1976, and those determined to be substantially equivalent to such devices, may be cleared through the 510(k) process until FDA issues an administrative order requiring them to go through the premarket approval process. Section 515(b)(1) of the FD&C Act (21 U.S.C. § 360e(b)(1)). Prior to the enactment of the Food and Drug Administration Safety and Innovation Act (FDASIA) (Pub. L. 112-144) on July 9, 2012, FDA had to publish regulations to require such devices to go through the premarket approval process. Section 608(b) of FDASIA (126 Stat. 1056) changed the process from rulemaking to administrative order.

⁴ For the purpose of this guidance document, a "new device" means a device within the meaning of section 201(h) of the FD&C Act that is not legally marketed. It can be either a completely new device or a modification of a legally marketed device that would require a new 510(k).

DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

