

## 2014 - 2015 Strategic Priorities

### Strike the Right Balance Between Premarket and Postmarket Data Collection

**Goal:** Assure the appropriate balance between premarket and postmarket data collection to facilitate and expedite the development and review of medical devices, in particular high-risk devices of public health importance.

#### Target

By December 31, 2014, review 50 percent of product codes subject to a PMA that have been on the market to determine whether or not to shift some premarket data collection to the postmarket setting or to pursue reclassification, and communicate those decisions to the public.

#### Results

In 2014, CDRH reviewed 69 percent of product codes subject to a PMA that have been on the market.

**Table 1.** Medical devices (by product code) determined to be candidates for reclassification to Class II.

Product Code (PROCODE)	PROCODE Description
LFD	Saliva, artificial
LLX	Catheter, sampling, chorionic villus
LMF	Agent, absorbable hemostatic, collagen based
LNC	Applicator, hyperthermia, superficial, rf/microwave
LOA	Device, testicular hypothermia
LOB	Dilator, cervical, synthetic osmotic
LOC	System, rf/microwave hyperthermia, cancer treatment
LOF	Bone growth stimulator
LPQ	Stimulator, ultrasound and muscle, for use other than applying therapeutic deep
LTF	Stimulator, salivary system
LZR	Ultrasound, cyclodestructive
MBU	Condom, female, single-use
MRK	System, imaging, fluorescence
MVF	System, laser, photodynamic therapy
MVG	System, laser, fiber optic, photodynamic therapy
MYL	Assay, enzyme linked immunosorbent, parvovirus b19 igg
MYM	Assay, enzyme linked immunosorbent, parvovirus b19 igm
MYN	Analyzer, medical image
NXG	Fluorescence in situ hybridization, topoisomerase ii alpha, gene amplification and deletion
NZC	Stent, urethral, prostatic, semi-permanent
OAY	Light source system, diagnostic endoscopic

**Table 2.** Medical devices (by product code) determined to be candidates for reduction of premarket data collection through reliance on postmarket controls or shift of data collection from premarket to postmarket.

<b>Product Code (PROCEDURE)</b>	<b>PROCEDURE Description</b>	<b>Proposed Change or Shift</b>
<b>FHW</b>	Device, impotence , mechanical/hydraulic	Significantly reduce premarket and postmarket follow-up times. FDA is considering approximately a 50% reduction in both cases. FDA is also considering eliminating certain endpoints, including the connective tissue disease (CTD) endpoint. This is based on current clinical experience which shows that the majority of adverse events and revision surgeries occurred within a more acute timeframe following device implantation than initially expected. FDA will rely on postmarket controls to verify that the safety and effectiveness of use of the device is maintained long term.
<b>FTR</b>	Prosthesis, breast, noninflatable, internal, silicone gel-filled	FDA is considering changing clinical data requirements from a single-arm study with a large number of patients to a controlled study with pre-specified endpoints and potentially fewer patients.
<b>FWM</b>	Prosthesis, breast, inflatable, internal, saline	FDA is considering changing clinical data requirements from a single-arm study with a large number of patients to a controlled study with pre-specified endpoints and potentially fewer patients.
<b>JCW</b>	Prosthesis, penis, inflatable	Significantly reduce premarket and postmarket follow-up times. FDA is considering approximately a 50% reduction in both cases. FDA is also considering eliminating certain endpoints, including the connective tissue disease (CTD) endpoint. This is based on current clinical experience which shows that the majority of adverse events and revision surgeries occurred within a more acute timeframe following device implantation than initially expected. FDA will rely on postmarket controls to verify that the safety and effectiveness of use of the device is maintained long term.
<b>LOK</b>	Kit, test, alpha-fetoprotein for neural tube defects	FDA is considering requiring performance standards or non-clinical tests that have been developed as potential surrogates for some of the clinical testing. Since there is enough experience with these devices, FDA is considering that objective criteria can eliminate the need for controlled studies.
<b>MJP</b>	Toric IOL	Issues for higher cylinder power (i.e., higher myopes) related to visual distortions have been previously documented in other PMAs. For the approval to add a higher cylinder power lens to an already approved toric IOL platform, FDA is considering allowing a shift from premarket to postmarket for some clinical data requirements.
<b>MKQ</b>	Processor, cervical cytology slide, automated	FDA is considering collecting additional data on severe abnormal cases post-market, in order to reduce a potentially very large premarket study, but to ensure effectiveness of the device in rare, but severe abnormal cells in cervical cytology

Product Code (PROCEDURE)	PROCEDURE Description	Proposed Change or Shift
<b>MNM</b>	Reader, cervical cytology slide, automated	cases. FDA is considering collecting additional data on severe abnormal cases post-market, in order to reduce a potentially very large premarket study, but to ensure effectiveness of the device in rare, but severe abnormal cells in cervical cytology cases.
<b>MTF</b>	Total, prostate specific antigen (noncomplexed & complexed) for detection of prostate cancer	FDA is considering requiring performance standards or non-clinical tests that have been developed as potential surrogates for some of the clinical testing.
<b>MTG</b>	Test, prostate specific antigen, free, (noncomplexed) to distinguish prostate cancer from benign conditions	FDA is considering requiring performance standards or non-clinical tests that have been developed as potential surrogates for some of the clinical testing.
<b>MVC</b>	System, test, her-2/neu, ihc	FDA is considering clinical trial data to demonstrate that the test can select a patient population to demonstrate the clinical benefits of the drug may not be necessary for premarket approval for the same intended use. Instead, FDA will rely on postmarket controls to verify the demonstration of patient population selection and benefits for the same intended use.
<b>MVD</b>	System, test, her-2/neu, nucleic acid or serum	FDA is considering clinical trial data to demonstrate that the test can select a patient population to demonstrate the clinical benefits of the drug may not be necessary for premarket approval for new intended use. Instead, FDA will rely on postmarket controls to verify the demonstration of patient population selection and benefits for the same intended use.
<b>NAF</b>	Antigen (complexed), prostate specific, (cpsa)	FDA is considering requiring performance standards or non-clinical tests that have been developed as potential surrogates for some of the clinical testing.
<b>NAW</b>	Microspheres radionuclide	FDA is considering shifting clinical testing for potential indications for use to a post market requirement or to be completed via meta-analysis. FDA is also considering that extensive dosimetry (radiation physics) data or composition of matter type discussions may not be required for premarket approval for some potential expanded indications for use, if the microspheres remain the same.
<b>NKF</b>	Immunohistochemistry antibody assay, c-kit	FDA is considering that clinical trial data to demonstrate that the test can select a patient population to demonstrate the clinical benefits of the drug may not be required for premarket approval for the same intended use. Instead, FDA will rely on postmarket controls to verify the demonstration of patient population selection and benefits for the same intended use.
<b>NQF</b>	Immunohistochemistry assay,	FDA is considering that clinical trial data to demonstrate that

<b>Product Code (PROCODE)</b>	<b>PROCODE Description</b>	<b>Proposed Change or Shift</b>
	antibody, epidermal growth factor receptor	the test can select a patient population to demonstrate the clinical benefits of the drug may not be required for premarket approval for the same intended use. Instead, FDA will rely on postmarket controls to verify the demonstration of patient population selection and benefits for the same intended use.
<b>NYQ</b>	Chromogenic in situ hybridization, nucleic acid amplification, her2/neu gene, breast cancer	FDA is considering that clinical trial data to demonstrate that the test can select a patient population to demonstrate the clinical benefits of the drug may not be required for premarket approval for the same intended use. Instead, FDA will rely on postmarket controls to verify the demonstration of patient population selection and benefits for the same intended use.
<b>OAD</b>	Catheter, percutaneous, cardiac ablation, for treatment of atrial flutter	FDA is considering developing Objective Performance Criteria (OPC) to streamline clinical trials for this device type.
<b>OWD</b>	Somatic gene mutation detection system	FDA is considering collecting clinical trial data post-market to support claims of new or rare variants.
<b>OWE</b>	Fluorescence in situ hybridization, anaplastic lymphoma kinase, gene rearrangement	FDA is considering that clinical trial data to demonstrate that the test can select a patient population to demonstrate the clinical benefits of the drug may not be required for premarket approval for the same intended use. Instead, FDA will rely on postmarket controls to verify the demonstration of patient population selection and benefits for the same intended use.
<b>OYM</b>	Prostate cancer genes nucleic acid amplification test system	FDA is considering that the study sample size required for premarket approval may be reduced by prescreening to enrich for abnormal cases that are of greater interest.

**Table 3.** Medical devices (by product code) with reduction or shift in data collection and/or reclassification in 2014, during FDA’s retrospective review of PMAs.

<b>Product Code (PROCODE)</b>	<b>PROCODE Description</b>	<b>Description of FDA Action</b>
<b>IMK</b>	Wheelchair, stair climbing	Reclassification to Class II, special controls, completed April 14, 2014.
<b>MIH</b>	System, endovascular graft, aortic aneurysm treatment	Reductions in premarket data collections have been implemented in the past year. FDA previously required 1 year of premarket data collection for the submission of a PMA supplement for next generation abdominal and thoracic aortic devices. This requirement has been reduced to 6 months premarket data collection with a minimum of 1 year postmarket data collection for certain types of device modifications. Previously, FDA also allowed a shift from surgical controls to use of clinically relevant performance goals to evaluate effectiveness of abdominal and thoracic aortic devices.
<b>MWA</b>	System, nucleic acid amplification, mycobacterium tuberculosis complex	Reclassification to Class II, special controls, completed May 30, 2014

**Table 4.** Additional medical devices (by product code) determined to remain class III with no changes in data collection.

<b>Product Code (PROCODE)</b>	<b>PROCODE Description</b>
<b>DTB</b>	Permanent pacemaker Electrode (870.3680)
<b>DXY</b>	Implantable, pacemaker, pulse-generator
<b>DYE</b>	Replacement heart valve
<b>GZC</b>	Stimulator, neuromuscular, implanted
<b>KGG</b>	Tissue adhesive for use in embolization of brain arteriovenous malformations
<b>KWG</b>	Prosthesis, finger, constrained, metal/polymer
<b>LGB</b>	Gonococcal antibody tests
<b>LHE</b>	Controller, closed-loop blood glucose
<b>LKK</b>	Pump, infusion, implanted, programmable
<b>LKV</b>	Fetal fibronectin
<b>LMG</b>	Agent, absorbable hemostatic, non-collagen based
<b>LMW</b>	Solution, removal, carries
<b>LMX</b>	Meter, Jaundice
<b>LMY</b>	Monitor, skin resistance/skin temperature, for insulin reactions
<b>LNB</b>	Applicator, hyperthermia, deep heating, ultrasound
<b>LNR</b>	System, photopheresis, extracorporeal
<b>LNK</b>	Catheter, percutaneous, long term, intraspinal
<b>LOM</b>	Test, hepatitis b (b core, be antigen, be antibody, b core igm)
<b>LOY</b>	Cardioconverter, implantable
<b>LPD</b>	System, pacing, antitachycardia
<b>LSX</b>	Controller, closed-loop, blood-pressure
<b>LTI</b>	Implant, Intra gastric for morbid obesity
<b>LWL</b>	Fluid, intraocular
<b>LWO</b>	Pulse-generator, single chamber, sensor-driver, implanatable
<b>LWP</b>	Implantable, pulse-generator, pacemaker (non-CRT)
<b>LWQ</b>	Heart valve, mechanical
<b>LWR</b>	Heart valve non allograft tissue
<b>LWS</b>	Implantable cardioverter defibrillator (non-CRT)
<b>LWT</b>	Occluder, balloon, vena-cava
<b>LWW</b>	Pulse-generator, single chamber, single
<b>LWY</b>	Pulse-generator, dual chamber, antitachycardia
<b>LXA</b>	Tissue graft of 6,mm or greater
<b>LYJ</b>	Stimulator, autonomic nerve, implanted for epilepsy
<b>LZS</b>	Excimer laser system
<b>MAQ</b>	Kit, DNA detection, human papillomavirus
<b>MCM</b>	Cochlear implant
<b>MDS</b>	Invasive glucose sensor
<b>MER</b>	Stent, urethral, prostatic, permanent or semi-permanent
<b>MES</b>	Stent, urethral, bulbous, permanent or semi-permanent
<b>MFE</b>	Agent, injectable, embolic
<b>MFK</b>	Lens, multifocal intraocular
<b>MHE</b>	Auditory brainstem implant
<b>MHR</b>	Test, antitumor cell susceptibility

<b>MIP</b>	Implanted fecal incontinence device
<b>MJB</b>	Antigen, cancer 549
<b>MJO</b>	Prosthesis, intervertebral disc
<b>MJS</b>	Contrast media, ultrasound
<b>MKD</b>	Stimulator, functional walking neuromuscular, non-invasive
<b>MKT</b>	Hepatitis viral b DNA detection
<b>MNO</b>	System, laser, transmyocardial revascularization
<b>MPV</b>	Implant, hearing, active, middle ear, partially implanted
<b>MPW</b>	Filler, recombinant human bone morphogenetic protein, collagen scaffold, osteoinduction
<b>MRA</b>	Prosthesis, hip, semi-constrained, metal/ceramic/ceramic/metal, cemented or uncemented
<b>MRM</b>	Defibrillator, implantable, dual-chamber
<b>MTA</b>	Lens, intraocular, phakic
<b>MUZ</b>	Stimulator, Autonomic nerve, implanted (depression)
<b>MWH</b>	Pulmonic valved conduit
<b>MWL</b>	Rigid Gas Permeable contact lenses
<b>MXM</b>	Cap, cooling (infants)
<b>MXQ</b>	Stent, urethral, external sphincter, permanent
<b>MZO</b>	Assay, enzyme linked immunosorbent, hepatitis c virus
<b>MZP</b>	Assay, hybridization and/or nucleic acid amplification for detection of hepatitis c RNA, hepatitis c virus
<b>NAA</b>	Lens, intraocular, accommodative
<b>NAH</b>	System, test, tumor marker, for detection of bladder cancer
<b>NCD</b>	Test, immunity, cell mediated, mycobacterium tuberculosis;
<b>NCL</b>	Imager, breast, electrical impedance
<b>NEK</b>	Filler, recombinant human bone morphogenetic protein, collagen scaffold with metal prosthesis, osteoinduction
<b>NIK</b>	Defibrillator, automatic implantable cardioverter, with cardiac resynchronization
<b>NIM</b>	Stent, carotid
<b>NIN</b>	Stent, renal
<b>NIP</b>	Stent, superficial femoral artery
<b>NJL</b>	Total mobile bearing knees
<b>NKE</b>	Pulse-generator, pacemaker, implantable, with cardiac resynchronization (CRT-P)
<b>NQA</b>	Biologic material, dental
<b>NQO</b>	Prosthesis, spinous process spacer/plate
<b>NQR</b>	Sealant, dural
<b>NRM</b>	Pulse generator, dual chamber, ventricular rescue shock, implantable
<b>NUU</b>	Temporary reduction of myopia or refractive error
<b>NVN</b>	Drug eluting permanent right ventricular (RV) or right atrial (RA) pacemaker electrodes
<b>NVY</b>	Permanent defibrillator electrodes
<b>NVZ</b>	Pulse-generator, permanent, implantable
<b>NWX</b>	Catheter, percutaneous transluminal coronary angioplasty (ptca), cutting/scoring
<b>NXT</b>	Prosthesis, hip, semi-constrained, metal/metal, resurfacing
<b>OAF</b>	Implant, hearing, active, middle ear, totally implanted
<b>OBF</b>	ASSAY, GENOTYPING, HEPATITIS C VIRUS;{Export only}
<b>OCB</b>	RT-PCR multigene expression test, sentinel lymph node, cancer metastasis detection
<b>OJN</b>	Mycobacterium tuberculosis, cell mediated immune response, enzyme-linked

	immunospot test
<b>OJX</b>	Drug eluting permanent left ventricular (LV) pacemaker electrode
<b>OTE</b>	Digital breast tomosynthesis
<b>OYA</b>	P2psa
<b>OYB</b>	Kit, RNA detection, human papillomavirus
<b>OYC</b>	Invasive glucose sensor w insulin pump
<b>OZA</b>	Test, urea adult and pediatric (breath)
<b>PAA</b>	Automated breast ultrasound
<b>PAB</b>	Cytomegalovirus (cmv) DNA quantitative assay
<b>PEJ</b>	Salivary estriol test