## U.S. FDA: Strengthening Postmarket Program Elizabeth Patnode November 22, 2006

'The FDA is responsible for protecting the public health by assuring the afety, efficacy, and security of human and veterinary drugs, biological voducts, medical devices, our nation's food supply, cosmetics, and voducts that emit radiation. The FDA is also responsible for advancing he public health by helping to speed innovations that make medicines and oods more effective, safer, and more affordable; and helping the public yet the accurate, science-based information they need to use medicines und foods to improve their health." - FDA mission statement

Under the Department of Health and Human Sciences is he U.S. Food and Drug Administration, which contains eight ubdivisions. These offices include the Center for Biologics Evaluation and Research (CBER), Center for Devices and Radiological Health (CDRH), Center for Drug Evaluation and Research (CDER), Center for Food Safety and Applied Nutrition CFSAN), Center for Veterinary Medicine (CVM), National Center for Toxicological Research (NCTR), Office of the Commissioner (OC), and Office of Regulatory Affairs (ORA). These offices and centers have offices within them as well. The FDA also includes two affiliated organizations which include the oint Institute for Food Safety and Applied Nutrition and the National Center for Food Safety and Technology.

On November 9, 2006, the U.S. FDA's Center for Devices and Radiological Health's Postmarket Transformation Leadership Team (PTLT) developed a new plan to strengthen its current postmarket testing and monitoring program for medical levices. This center is responsible for ensuring the safety of and egulating over 80,000 devices. The new outlook is intended for nedical devices once they have reached the market. With continual medical developments and an increasing number of ecalls, CDRH has identified specific flaws amongst its current nonitoring system. Once these problems were recognized earlier his year, the Center identified and focused on the areas in need of mprovement.

Many weaknesses and problems escalated to finally bring CDRH to a point in which transforming its postmarket program became essential. The PTLT identified an inadequate amount and insatisfactory success with communication amongst the center and between CDRH and its reporting networks, clinical practitioners, ind the community. Concerning precise and prompt data eporting, a slow and outdated Medical Device Reporting system MDR) has set CDRH behind. Background research and analysis of previous postmarket evaluations lack when medical device ssues arise. The Center commonly finds confusion amongst itself, ndustries, and its analysis network on how and when to report postmarket issues and events. The PTLT has also found a large gap between relaying postmarket information to premarket esearchers, businesses, practitioners, and FDA departments. Largely, CDRH also lacks funding and resources for field activity n the postmarket department.

CDRH has outlined four major areas that specifically reed improvement and are currently the center's highest priorities n revamping its postmarket program. According to the November CDRH PTLT Report, concerned with strengthening the FDA's postmarket program for medical devices, the areas include creating relation collaboration, developing world class data systems, enhancing risk/benefit communication efforts, and collaborating on inforcement strategies and outcomes.

The first area of concern focuses mainly on creating ross-cutting groups to help organize information transfer and to stablish a more effective public health promotion and protection network. The system is intended to last permanently and to be practiced daily, as to not only be referred to during crisi situations. Employee recognition is also considered under this area of improvement, based on successful collaborations and a functional working matrix.

The intended improvement of data systems is crucial fo the PTLT's updating process. Data input and output with constan updates and analysis, will be strengthened, improved, and created initially and as postmarket issues arise. This process change includes the creation of unique medical device classification electronic device registration, and a search for an alternative method of device reporting. An update of the current center's computer data system, MAUDE, and its reporting system MedSun, has been mandated. MAUDE is a generation-old software program that requires manual entries (requiring more time and money), does not return data in a user-friendly format, does not allow for simple searches or to return usable data to staff o other system users, and has an extremely large backlog of report (causing an inability to detect problems) due to paper methods and incomplete or erroneous data from the manufacturer. MedSui (Medical Device Surveillance Network) is a network tha encourages its 350 enrolled healthcare facilities to report defects faulty equipment, and unexpected events. Volunteers and enrollments are high for the network and the Center is successfu in reporting feedback and precautions back to the enrolled facilities. The Center must now concentrate on also sharing it: analysis and safety information to healthcare facilities outside o the MedSun network. Seeking outside experts for the update and reporting process is also one of the team's goals. This includes the benefits the Center will gain once access to outside databases i enabled, particularly from healthcare professionals and docto organizations.

In order to be successful with enhancing the risk/benefi communications, the center has focused on creating a stronge name in the community, and working closer with clinica practitioners. As far as collaboration of enforcement strategies CDRH will be transformed after a stronger relationship betweet the transformation team, the center, and the FDA (including the Office of Regulatory Affairs and the Office of Chief Counsel occurs. Inspection preparations will mandate a review of previou postmarket data. The transformation team plans to update enforcement data systems, and to train employees to keep these systems current. The latest enforcement tools shall be utilized by the center as well.

Although device manufacturers pay CDRH a user fee to help continue the postmarket review process, the program expire next year, and finances are already low. Postmarket inspection and updates are critical, but with low finances, and diminishing outside resources, transformations have been difficult and delayed The PTLT is determined and has outlined goals to change the program though, as the Center continues to aspire to transform the postmarket review program.

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