FDA Activities in Nanotechnology Report to PCAST November 2011

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U.S. Food and Drug AdministrationAdvancing Regulatory Science

What is Special about Nanotechnology Regulation

- Evolving state of science on biological interactions and methodologies for assessing safety, effectiveness, performance, and product quality
- Different applications and routes of exposure
- High degree of interest among academia, industry, and trade stakeholders
- Regulatory approaches continue to evolve within federal agencies and international counterparts

FDA's Moving Parts

Protecting and Promoting the Public Health

- FDA's Enterprise Program on Nanotechnology
 - Nanotechnology Task Force
- Intramural Regulatory Science Programs
 - Center-specific Activities
 - External Collaborations
- Product Specific Guidance/Policy
- Domestic Activities
 - Scientific forums and other fora
- International Engagement
- Ongoing Review of Product Submissions

A few FDA Updates

Protecting and Promoting the Public Health

- FY11/FY12 Regulatory Science Program on Nanotechnology
 - Staff Training and Professional Development
 - FDA Laboratory Facilities
 - The CORES Regulatory Science Program
 Nanotechnology Regulatory Science Research Plan
 - www.fda.gov/ScienceResearch/SpecialTopics/Nanotechnology/ucm273325.htm
- Draft Guidance on Nanotechnology
 - www.fda.gov/ScienceResearch/SpecialTopics/RegulatoryScience/ucm257926.htm
- Strategic Plan for Regulatory Science
 - www.fda.gov/ScienceResearch/SpecialTopics/RegulatoryScience/ucm267719.htm
- Driving Biomedical Innovation

FDA Message to Stakeholders

Protecting and Promoting the Public Health

- FDA will continue to take a science-based and science led approach to decision making
- FDA will continue to evaluate size and properties of nanomaterials or products otherwise involving the application of nanotechnology
- FDA will continue to encourage industry to consult with the agency early in the product development process to address questions about safety and/or regulatory status

Coordination Across the United States Government CPSC, EPA, FDA, OSHA, USDA

Topic Areas

- Education about each agency's vision, mission
- Cooperation on joint activities and initiatives
- Collaboration on regulatory science research

Where does this happen?

- National Nanotechnology Initiative (NNI) Consortium
- Emerging Technologies Interagency Policy Coordination (ETIPC) Committee

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