Progress in Data Quality, Participation, and Transparency at FDA

Center for Devices and Radiological Health (CDRH)

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Outline

- 2013 FDASIA 907 Report:
 - >> CDRH findings & identified areas for improvement
- 2014 FDASIA 907 Action Plan:
 - >> CDRH's commitments & progress
- Ongoing challenges & need for collaborative solutions



FDASIA 907 Timeline

FDASIA (2012)

Report (2013)

Action Plan (2014)



What Did We Evaluate

- Reviewed 37 original PMA applications approved in 2011:
 - 46 pivotal clinical studies
- Demographic data variables:
 - Sex, Age, Race, Ethnicity
- Documents reviewed:
 - PMA applications submitted by industry
 - Final labeling (industry public info)
 - FDA internal review documentation
 - SSED: Summaries of Safety & Effectiveness Data (FDA public decision summaries)

FDA Report

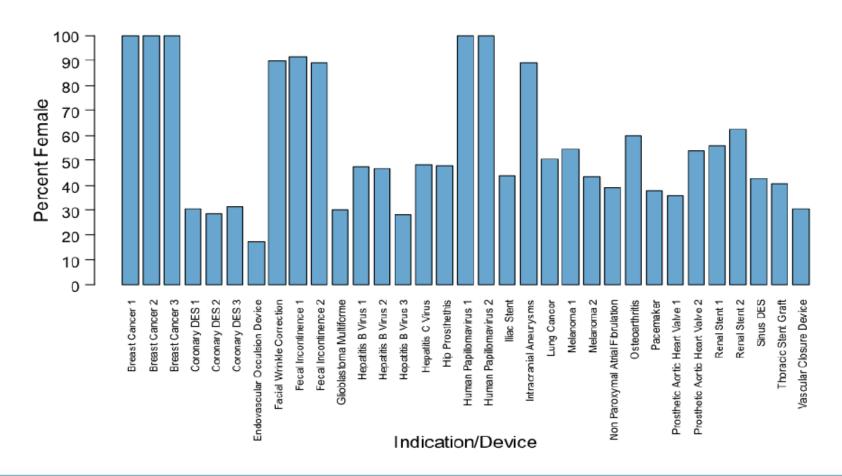
Collection, Analysis, and Availability of Demographic Subgroup Data for FDA-Approved Medical **Products** August 2013



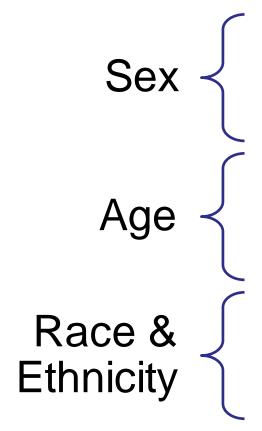


Representation Varies by **Disease/Condition**

Figure 2-2: Sex Composition by Submission (CDRH)



Need for Improved Consistency in Analysis and Transparency



- 88% of PMAs analyzed63% presented publicly
- 70% of PMAs analyzed57% presented publicly
- 27% of PMAs analyzed16% presented publicly



FDASIA 907 Timeline

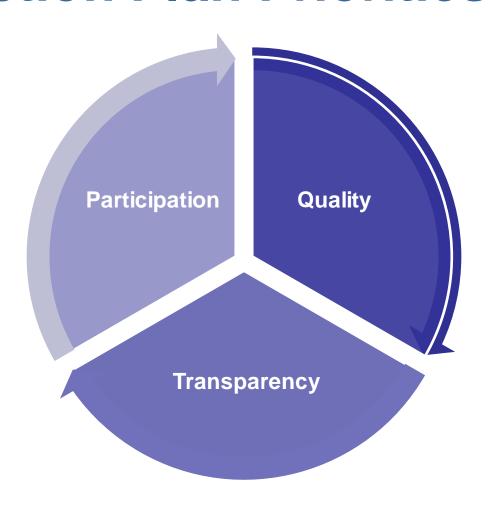
FDASIA (2012)

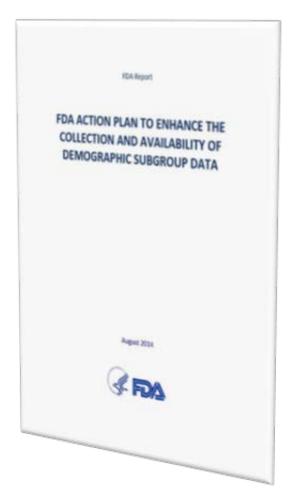
Report (2013)

Action Plan (2014)



Action Plan Priorities





Quality

CDRH – Completed

- ☑ Final FDA Guidance: Evaluation of Sex-Specific Guidance in Medical Device Clinical Studies
- ☑ Incorporated recommendations from sex-specific guidance (Priority 1.1)
 - Incorporated details of demographic subgroup analyses in review templates
 - Launched webinar presentation to external stakeholders

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Quality

CDRH – In Progress

- Draft FDA Guidance: Evaluation & Reporting of Age, Race, and Ethnicity Data in Medical Device Clinical Studies (Priority 1.1)
- Staff training on demographic subgroup data inclusion, analysis, and communication (Priority 1.3)



CDRH – In Progress

- Explore approaches for public user-friendly ways of posting demographic info from medical device studies (Priority 3.1)
- Conduct a study with health care professionals to improve usability and understanding of medical device labeling, including instructions for use (Priority 3.2)



CDRH – Needs Collaboration

- Collaborate with industry to ensure appropriate use of enrollment criteria in clinical trial protocols (Priority 2.2)
- Explore various ways to communicate to demographic subgroups about clinical trial participation (Priority 2.4)



- Hired Chief Medical Officer Pediatrics and Special Populations, Dr. Vasum Peiris
- Parallel review with CMS, to streamline decisions related to Medicare population
- Home Use & Patient Labeling Initiatives
- Variety of efforts and activities related to pediatrics & other special populations, including draft guidance on leveraging clinical data for extrapolation to pediatric uses of medical devices



Needs Collaboration

- Your input toward collaborative solutions
 - Ensure appropriate use of enrollment criteria in clinical trial protocols (Priority 2.2)
 - Explore various ways to communicate to demographic subgroups about clinical trial participation (Priority 2.4)
 - Explore approaches for public user-friendly ways of posting demographic info from medical device studies (Priority 3.1)



- CDRH has completed significant Action Plan commitments and is on track for many others
- Collaborative solutions are needed to overcome longstanding challenges in key areas:
 - Participation enrollment criteria, diverse participation
 - Quality improving quality of demographic analyses in industry submissions and labeling
 - Transparency communicating demographic info in the context of overall study results
- Important to keep in mind unique issues related to medical devices (manufacturing, clinical study conduct, regulatory framework, etc)

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Thank you