

Direction for Leachables/Extractables

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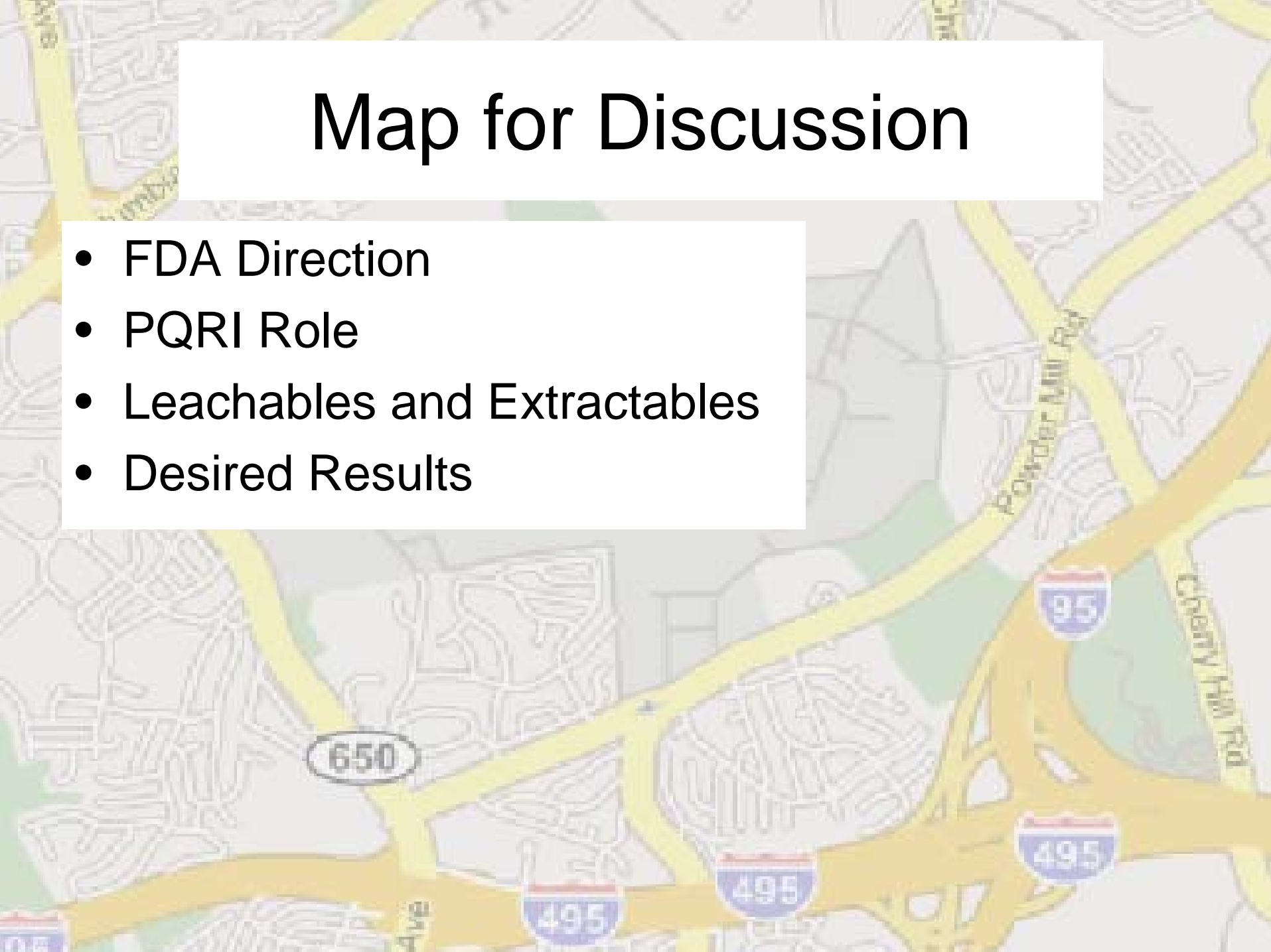
Center for Drug Evaluation and Research

Food and Drug Administration

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Map for Discussion

- FDA Direction
- PQRI Role
- Leachables and Extractables
- Desired Results



FDA Direction

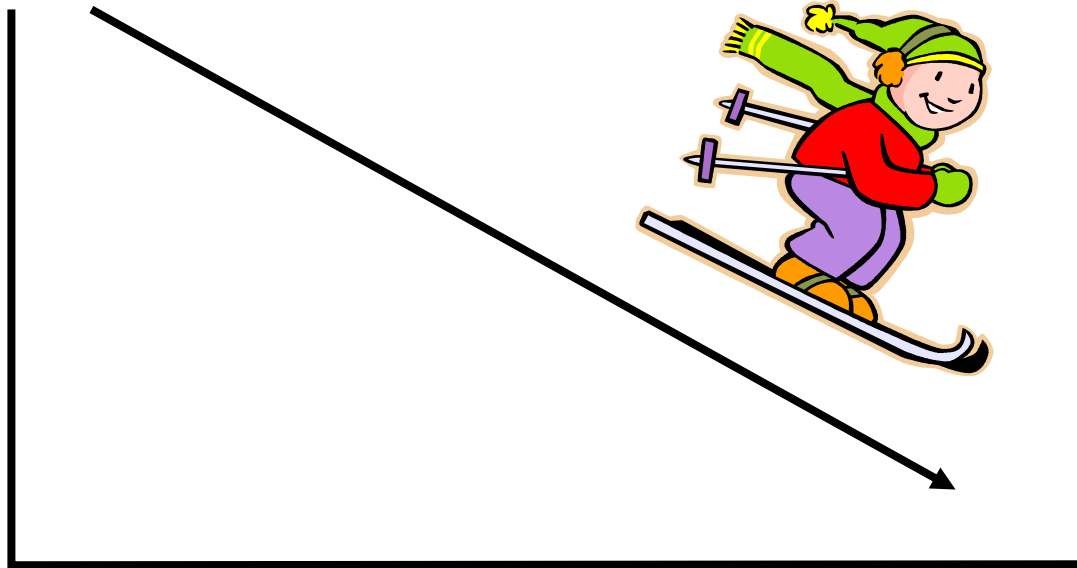
- Risk-Based Approaches
 - cGMP for 21st Century Initiative
 - FDA oversight based on:
 - Understanding of Product and Process
 - Quality System Robustness
 - Impact on Public Health
 - Success History of Manufacturer

FDA Direction

- Science-Based Regulation
 - Implementation of new technologies
 - Facilitate continuous manufacturing improvements
 - Reducing variability
 - Science and engineering enhanced decisions
 - Science based policies and standards

FDA Direction

Regulatory Burden



**Knowledge
and Process Understanding**

FDA Direction

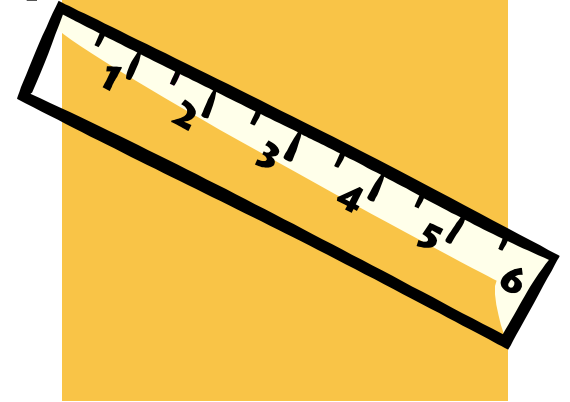
- Internal use of quality system approach
 - Keep groups within the organizations going in the same direction
 - Find and apply best practices
 - Modernize our approach to setting standards
 - Maintain openness

FDA Direction

- Coordinated Approach to Regulating
 - Pharmaceutical Inspectorate
 - 5 Level III Investigators Certified 2005
 - 15 More During 2006
 - Awaiting Visitation Detail
 - 30 Additional Begin Training, March/April 2006
 - Teamwork Approach to Review and Inspection
 - Based on success of PAT Team
 - Training offerings to Investigators from OPS
 - Deciding when the reviewer should be at the facility
 - Improved communication

FDA Direction

- Standards Development
 - Adopt standards developed by non-government organizations (NGOs)
 - These are preferred to methods developed solely within FDA and its laboratories
 - FDA encouraged to participate with NGOs
 - But not to dominate



FDA Direction

- Authority for approach
 - NTTAA
 - National Technology Transfer and Advancement Act
 - Amended the Stevenson-Wydler Act of 1980
 - Signed by President Clinton on March 7, 1996
 - OMB Circular A-119
 - Defines terminology
 - Defines “Consensus Standard Organization” (CSO)
 - Authorizes government participation in CSOs
 - http://standards.gov/standards_gov/index.cfm

FDA Direction

- Consensus Standard Organization (CSO)
 - Benefits
 - Open
 - Balance of interest
 - Due process
 - Appeal process
 - Consensus
 - General agreement (not unanimity)
 - Process to resolve objections
 - Objector is advised of disposition of the objection

PQRI Role

- PQRI was created as a body to finance or coordinate laboratory or clinical research
- Additional role of PQRI
 - Conducts survey analysis, data mining, and workshops for balanced industry cross sections
 - Proposes results of these analyses to FDA to revise guidance
- Leachables and Extractables WG utilized boole roles
- Emerging role
 - Publication
 - Public Standards

PQRI Role

- PQRI is increasingly open
- PQRI has a balance of interest
- PQRI has due process
- “Consensus” organization

PQRI Role

- Areas for development
 - Dispositions of objections to positions
 - Appeal process
 - Revision process

PQRI Role

- PQRI Products (resemble standards)
 - Stratified Sampling (Blend Uniformity)
 - Aseptic Processing
 - Proposed Draft Leachables and Extractables Report to PQRI DPTC

Leachables and Extractables

- Systematic process for leachables safety assessment
- Exposure thresholds for qualification
- Best practices
 - Component selection
 - Controlled extraction studies
 - Leachables studies
 - Routine quality control methods

Leachables and Extractables – Lessons Learned from Working Group

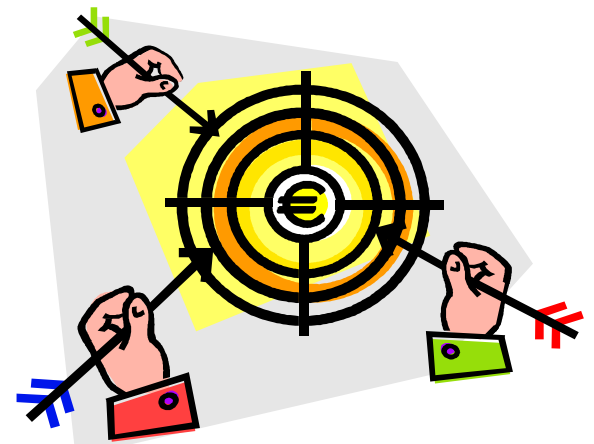
- Consensus is achieved by hard work
- Learning process for everyone
- Make best use of available science
- Conduct further studies when needed
- Seek input from a wider audience
- Flexibility is important

Desired Results of Working Group

- Recommendation to Agency
 - Written recommendations
 - Open and balanced consideration
 - Consider alternate points of view and document their disposition
 - Allow for future revision through an open appeal process

GOALS OF PQRI

- **Maintain high standards of product quality and the competitive edge of the US pharmaceutical industry**
 - * **improving efficiency of developing quality into products**
- **And ensure safe and effective products are available to the American public!!**



Thank You Working Group

Daniel Norwood (IPAC-RS), Chair

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Thank You Supporters

- PQRI Member Companies
- Test Article Donations
- Laboratory Work Donations
- Document Reviewers
 - Threshold Justification
 - Best Practice Recommendations
- Workshop Functions
 - Organizers
 - Participants