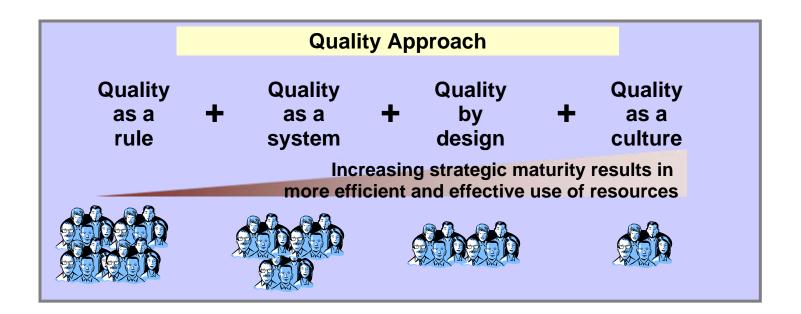
# Managing Risk in Clinical Development

"Medical Quality by Design"

Jeff Kasher
VP Clinical Development, Eli Lilly & Company
11 – 03– 2011



### **Quality as a Culture**

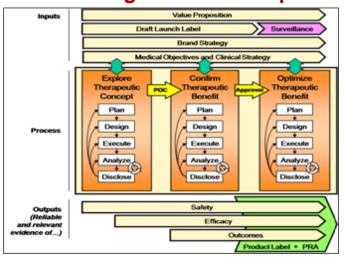


### The Road to Quality as a Culture.

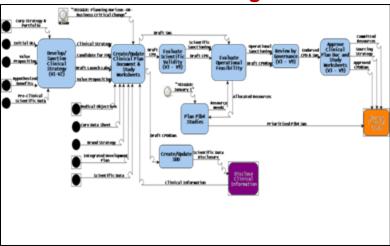


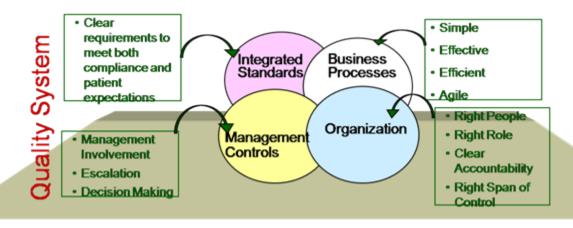
### Establishing a Quality Foundation

#### **Medical Single Process Map**

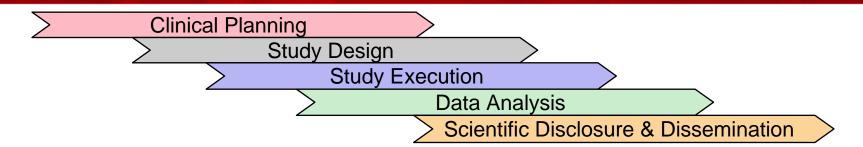








### **Building Quality into Clinical Trials**



#### Clinical Planning

- Approved Clinical Plans
- Medical/Scientific Validity Reviews
- Operational Reviews
- •Annual Clinical Plan Reviews
- Chief Medical Officer Oversight

#### Study Design

- Approved Study Protocols
- Protocol Review Committees
- Change Management

#### Study Execution

- •Investigator Site Selection
- •Risk-based Monitoring Program

#### **Data Analysis**

- Approved Plans of Analysis
- Analysis Program Validation
- Approval of Analysis Output

#### Scientific Disclosure & Dissemination

Disclosure Approvals

#### **Quality Governance**

- Deviation Management
- Quality Plans
- •3rd Party Management Program
- Trial Master File Periodic Reviews
- Quality Audits & Assessments
- Quality Lead Teams
- Metrics Review

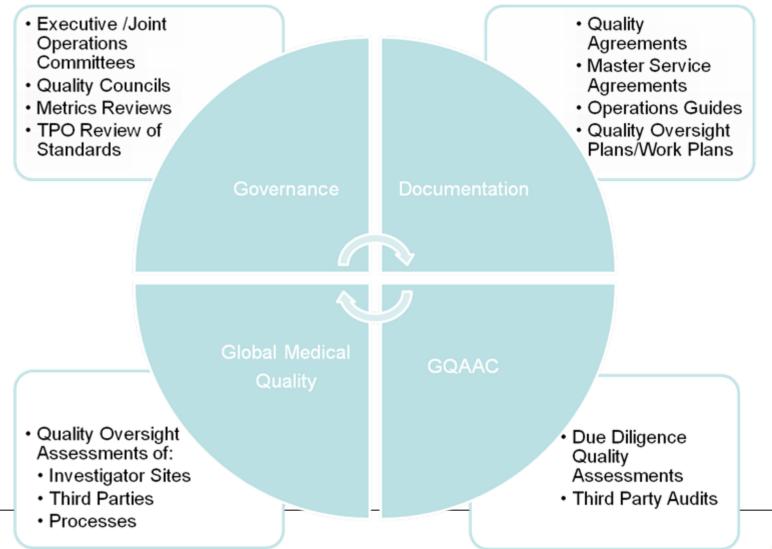


### **Integrated Quality Risk Management**



Third Party Management Oversight

### **Oversight of Strategic Third Parties**



Answers That Matter

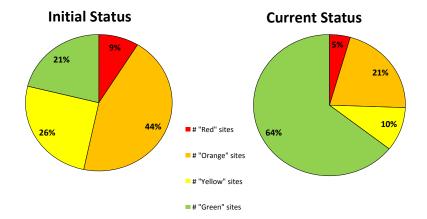
## Quality Oversight Assessment Metrics Summary – June 2012

#### Accomplishments

- 107 assessments have been performed year to date.
  - June 2012: 17 assessment performed globally (no critical observations).
- Trends identified in the following areas (further evaluation and response plan needed):
  - Study Documentation (especially site delegation log not available / inaccurate / incomplete)
  - Monitoring / Issue Resolution (especially issues not identified / escalated and / or resolved appropriately)
  - Training / Personnel Qualification
  - Source Document / Data Accuracy

### Improvement Opportunities

- January through May 2012:
  - Of the 8 red sites identified from January through May 2011,
     2 sites have moved to orange status and 2 have moved to green status. The remaining 4 red sites remain red.



### Strategic Third Party Assessment Metrics Summary – Q2 2012

#### **Critical Issues**

ICD current version not signed and/or signage incomplete

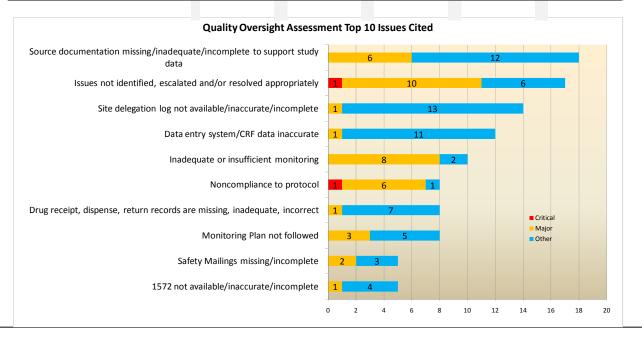
Lack of adequate management control to ensure clinical study services are performed by appropriately qualified personnel and conducted in accordance to defined SOP/guidelines/Clinical Management Plan (CMP)

Issues not identified, escalated and/or resolved appropriately

Noncompliance to protocol

Only assessment findings owned by the TPO are included in the status. Findings owned by Lilly are not included in the TPO assessment summary.

	#1	#2	#3	#4	#5
Number of assessments	19	9	0	1	10
Total number Critical Issues	2	1	0	0	1
Total number Major Issues	53	22	0	1	21
Total number Other issues	134	39	0	0	34
Total Number of issues	189	62	0	1	56



### **Risk-based Monitoring**

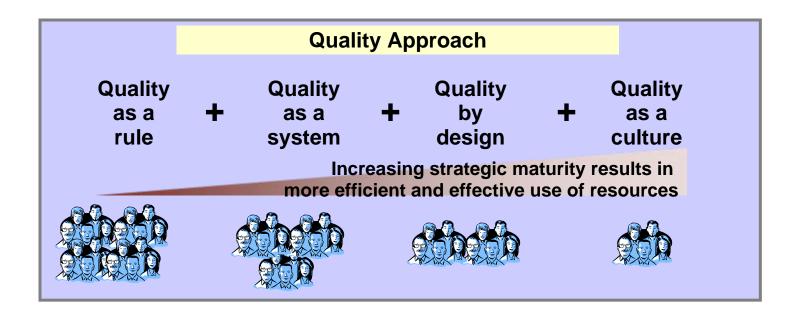
### Clinical trial monitoring must be driven by: scientific analysis, protocol objectives, and trial data

- Planning: Clinical trial monitoring plan which is based on statistical /scientific data elements in the protocol
  - Prioritization of data and processes critical to data integrity and subject protection
  - Development of adaptive study specific monitoring requirements
- Execution: Ongoing trial monitoring activities include:
  - Traditional on-site monitoring
  - Statistical data monitoring to assess data trends across sites and trials
  - Internal monitoring of key internal processes
- Risk-based monitoring benefits:
  - Enables the proactive identification of areas/sites of risk
  - Establishes the foundation to respond to real-time study data
  - Ultimately ensures that:
    - Clinical data answers the scientific questions/objectives outlined in the protocol
    - Meets regulatory and quality requirements for the safety of study subjects

"Sponsors must be able to answer why they are monitoring what is being monitoring"

- Leslie Ball, MD, Director, Office of Scientific Investigations, FDA

### **Quality as a Culture**



### The Road to Quality as a Culture.