QSIT Corrective & Preventive Actions

QSIT Workshops



Corrective & Preventive Actions (CAPA)

- **◆** Importance
- **♦** Assessment
- ◆ Data

Management

Design Controls

Production & Process Controls

Material Controls

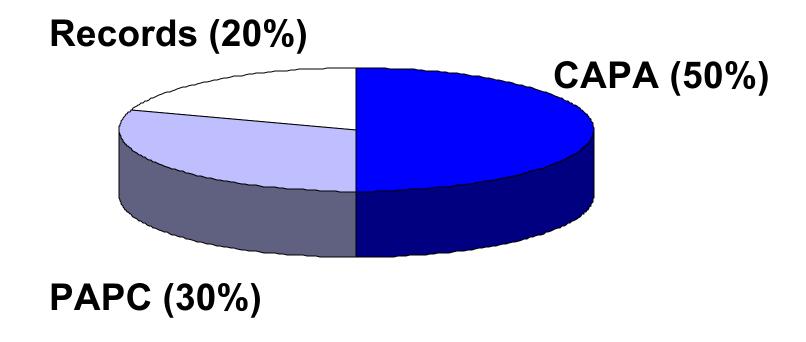
Corrective & Preventive Actions

Records,
Documents, &
Change Controls

Controls

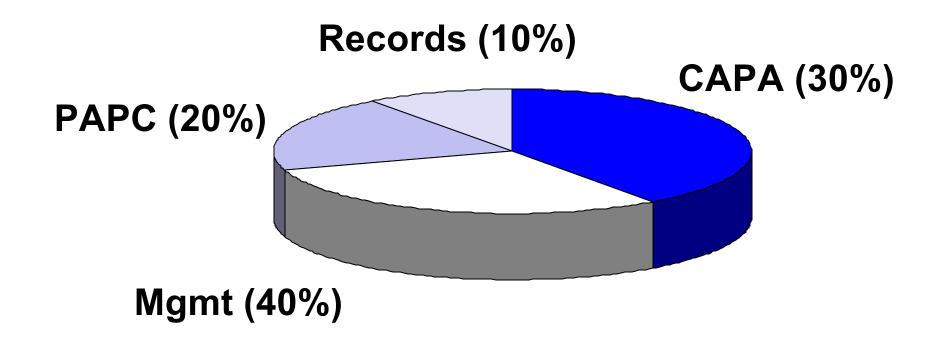
Equipment & Facility Controls

Top Ten FDA 483 Items



Non-QSIT Inspections

Top Ten FDA 483 Items



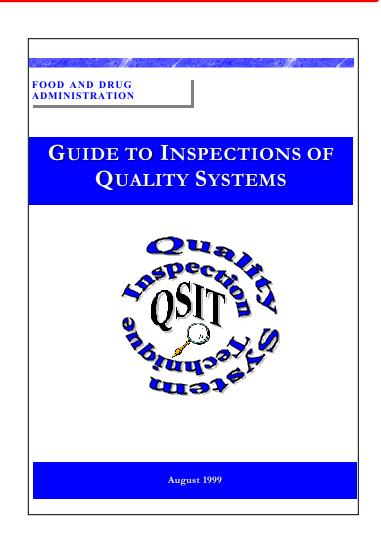
QSIT Inspections

QSIT Progression

- 1. Management Controls
- 2. Design Controls
- 3. Corrective and Preventive Actions
- 4. Production and Process Controls
- 5. Management Controls

How Will CAPA be Inspected?

- QSIT Guide
 - Purpose and Importance
 - Objectives
 - Flow charts
 - Narratives
 - Sampling Plans

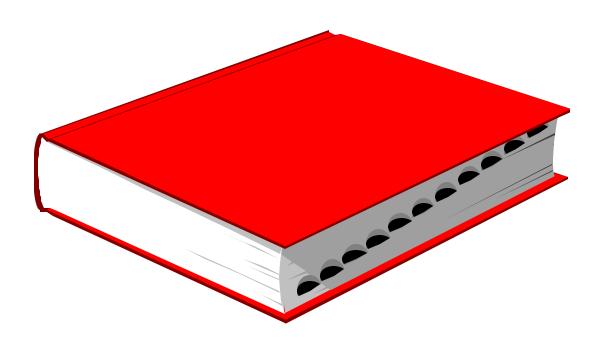


Assessment"Top Down" - Defined and Documented

1. CAPA system procedures

- Address the requirements of the regulation
- Management provides definition and interpretation of words or terms

Terms and Definitions



Corrective Action

◆ Action taken to eliminate the causes of an existing non-conformity, defect or other undesirable situation in order to prevent recurrence.

[ISO 8402]

Correction vs. Corrective Action

- ◆ "Correction" refers to repair, rework, or adjustment and relates to the disposition of an existing nonconformity
- "Corrective action" relates to the elimination of the causes of nonconformity [ISO 8402]

Examples

- ◆ Correction: Devices returned because of out-of-box failures are repaired and put back into inventory
- ◆ Corrective action: Defective components damaged by ESD during assembly caused out-of-box failures. ESD controls instituted; operators are trained in ESD controls

Preventive Action

◆ Action taken to eliminate the cause of a potential non-conformity, defect, or other undesirable situation in order to prevent occurrence [ISO 8402]

Example

◆ SPC charts indicate process is drifting toward upper limit for diameter of injection molded part. Investigation determines cause of drift is wear to mold. Replace mold, and verify/validate that process yields parts meeting specs.

CAPA [21CFR 820.100] Includes Actions Needed To:

- ◆ Correct ("correction") nonconforming product and other quality problems
- ◆ Prevent recurrence ("corrective action") of nonconforming product and other quality problems
- ◆ Eliminate the cause of potential ("preventive action") nonconforming product and other quality problems

- 2. ID existing problems (Corrective Actions)
 - Quality data sources are identified
 - Data from sources are analyzed

- 3. ID potential problems (*Preventive Actions*)
 - Quality data sources are identified
 - Data from sources are analyzed

4. Data challenge

- Complete
- -Accurate
- Timely

- 5. Statistical and non-statistical techniques
 - Detect recurring quality problems
 - Results of analyses
 - » compared across different data sources
 - » identify and develop extent of problems

6. Failure Investigation

- Procedures followed
- Commensurate with significance and risk of nonconformity
- Depth to root cause, where possible
- Control to prevent distribution of nonconforming product

7. Appropriate action taken

8. Actions

- Were effective
- Were verified or validated
- Do not adversely affect the finished device

9. Actions

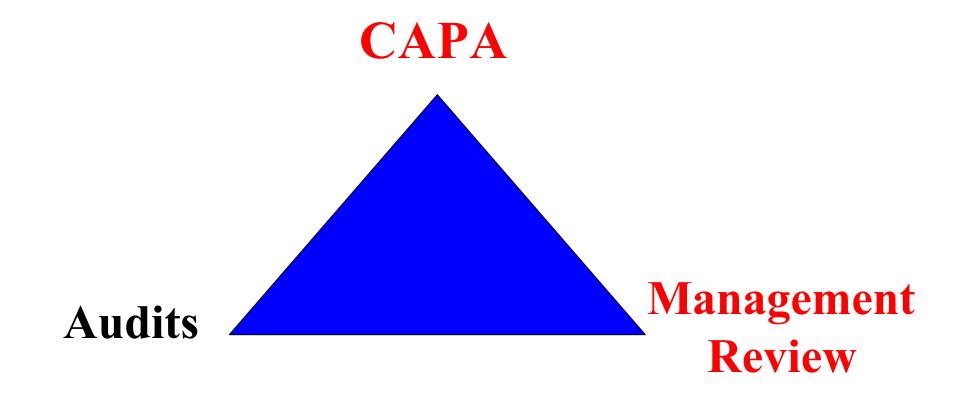
- Implemented
- Documented

10. Information dissemination

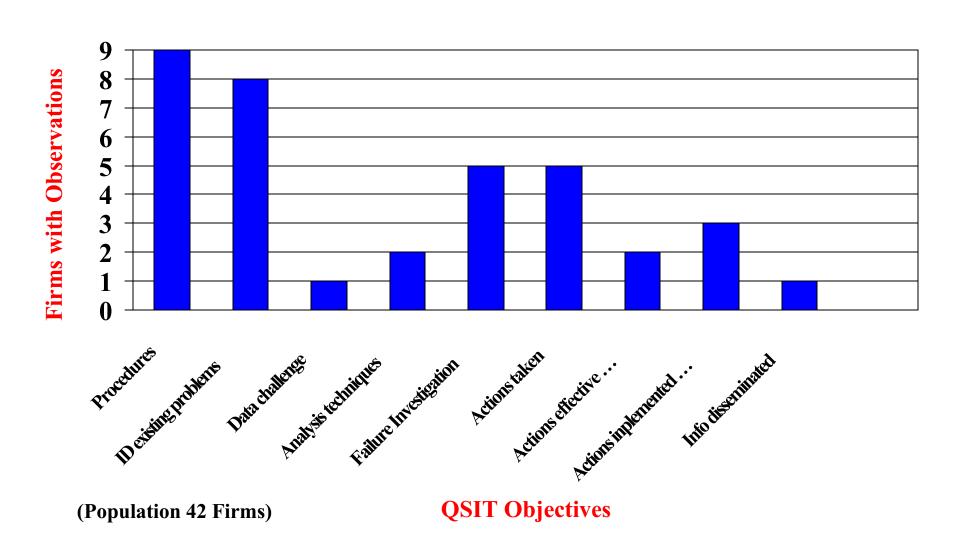
- Individuals directly responsible for
 - » assuring product quality
 - » prevention of quality problems

-Management Review!

Remember?



QSIT Study Findings



Data Sources

- **◆ Internal Feedback**
- **◆** External Feedback

Internal Data Sources

- Inspection/Test Data
 - In-Process
 - Final
- ◆ Scrap/Yield Data
- Process Control Data

Internal Data Sources

- Incoming Components
 - By Part Number
 - By Supplier
- **◆** Equipment Data
 - Calibration
 - Maintenance
- **◆ Internal Audits**

more...

Internal Data Sources

- Device History Records
- Training Records
- Change Control Records
- **♦** Rework
- Nonconfoming Material Reports

External Data Sources

- Complaints
 - Customers
 - Employees
 - MedWatch
 - Field Service Reports
 - -Journal Articles
 - -FDA

more...

External Data Sources

- **◆ Field Service Reports**
- Legal Claims
- Product Warranty

more...

Approach to Data Analysis

- Rank areas from major to minor
- Select items with major impact to business
 - Product related
 - Process related
- Proceed to items with less impact
- ◆ Assure that eventually all areas are addressed

Statistical Techniques

- Statistical methodologies
 - Pareto charts
 - Run charts
 - Control charts

Reminder!

◆ 21CFR Part 11 - Electronic Records; Electronic Signatures

At the Conclusion of the Inspection ...

"Evaluate whether management with executive responsibility ensures that an adequate and effective quality system has been established and maintained."