



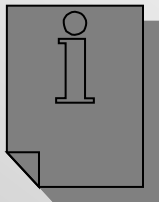
Non-Sterile Products

- Inspector's essentials in GMP-inspection -

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Overview

1. Essential topics in inspection - Overview
2. Which Systems are critical?
3. Do's & Don'ts in inspection

Overview

1. Essential topics in inspection - Overview
2. Which Systems are critical?
3. Do's & Don'ts in inspection

1. Essential Topics in inspection

Why essential ?

- Some areas are more important than others
 - Focus: Product quality, safety & efficacy
 - (Cross-)Contamination & mix-up
 - Credibility for inspectors ► „*Integrity*“ of provided data
- Important areas create major- or critical findings
- Critical findings result in immediate regulatory action

acc. Compilation of Union Procedures on Inspections and Exchange of Information Compilation (CoUP)

 - *Compliance management* CoUP - *Procedure on compliance management*
 - *Product recalls* CoUP - *Procedure for managing rapid alerts arising from quality defects risk assessment*
 - *(Partial-)withdrawal of MIA & GMP-certificate* CoUP - *Procedure for dealing with serious GMP non-compliance requiring co-ordinated measures to protect public or animal health*
 - *Withdrawal of MA* Marketing Authorisation

1. Essential Topics in inspection
 - Essential EU-GMP requirements -

Essential EU-GMP requirements ... from EudraLex Vol. 4

- Pharmaceutical Quality System
 - (*Management Review*) ► i.c.of findings due to ressource-constraints
 - Focus: Idependency to decide about ressources at site?
 - *Product Quality Review*
 - Focus: Linking & accordance to PQS-elements which should reflect problems rel. to *state of control* (= validated state)
 - Essential PQS-elements see also presentation chap. 2
 - *Quality Risk Management*
 - *Deviation Management & CAPA-System*
 - *Change Management*
 - QP's batch-certification management
 - Focus: Integrity of provided data & independency of decision



Essence off all: *Knowledge Management for Continual Improvement*

see presentation chap. 2

1. Essential Topics in inspection
 - Essential EU-GMP requirements -

■ Premises & Equipment

- Zone-concept of premises Separation, dedication, access
- Design of facilities, utilities & equipment incl. HVAC-system
- On-site: Structural conditions
- On-site: Cleanliness of product contact surfaces
- Decision on *dedicated or shared* facilities
 - see EU-GMP Part I, chap. 3.6 for decision making and
 - see EMA “*Guideline on setting health based exposure limits for use in risk identification in the manufacture of different medicinal products in shared facilities*” for toxicological evaluation



Focus: (Cross-)Contamination & mix-up

see also EU-GMP Part I, chap. 5 - “Prevention of cross-contamination” & chap. 5.21 “Technical measures”

- Qualification & non-preventive maintenance of equipment/utilities
 - i.c. of Repetitiv break-downs esp. during production or testing
 - Documentation of break-downs & related maintenance for traceability in batch manufacturing- or testing record (BMR, BTR)

1. Essential Topics in inspection
 - Essential EU-GMP requirements -

■ Documentation

see also presentation chap. 2

- Batch records
 - Traceability of correction, alteration or changes of original data
 - Documentation & traceability of events (e.g. incidents, deviations & non-conformances)
- Batch certification by QP & batch release
 - Traceability of QP-delegation of tasks acc. Annex 16, chap. 1.7
 - Imported products: All activities acc. Annex 16, chap. 1.6 & 1.7 under EU-MIA on EU-territory
- Data management acc. EMA Q&A-paper „*Data Integrity*“
 - *Data Governance* document (e.g. policy or master plan) Q&A-paper, question 12
 - ALCOA-principles applied throughout data-lifecycle Q&A-paper, question 13

see next page

Original data (source data):

„First capture or record of data and data processed, filtered or sorted from them.“



Focus: Traceability & integrity of data in all types of record/reports

13. How are the data integrity expectations (ALCOA) for the pharmaceutical industry prescribed in the existing EU GMP relating to active substances and dosage forms published in Eudralex volume 4?

The main regulatory expectation for data integrity is to comply with the requirement of ALCOA principles. The table below provide for each ALCOA principle the link to EU GMP references (Part I, Part II and Annex 11):

	Basic Requirements for Medicinal Products	Basic Requirements for Active Substances used as Starting Materials (Part II) :	Annex 11 (Computerised System)
	(Part I): Chapter 4 ⁽¹⁾ / Chapter 6 ⁽²⁾	Chapter 5 ⁽³⁾ / Chapter 6 ⁽⁴⁾	
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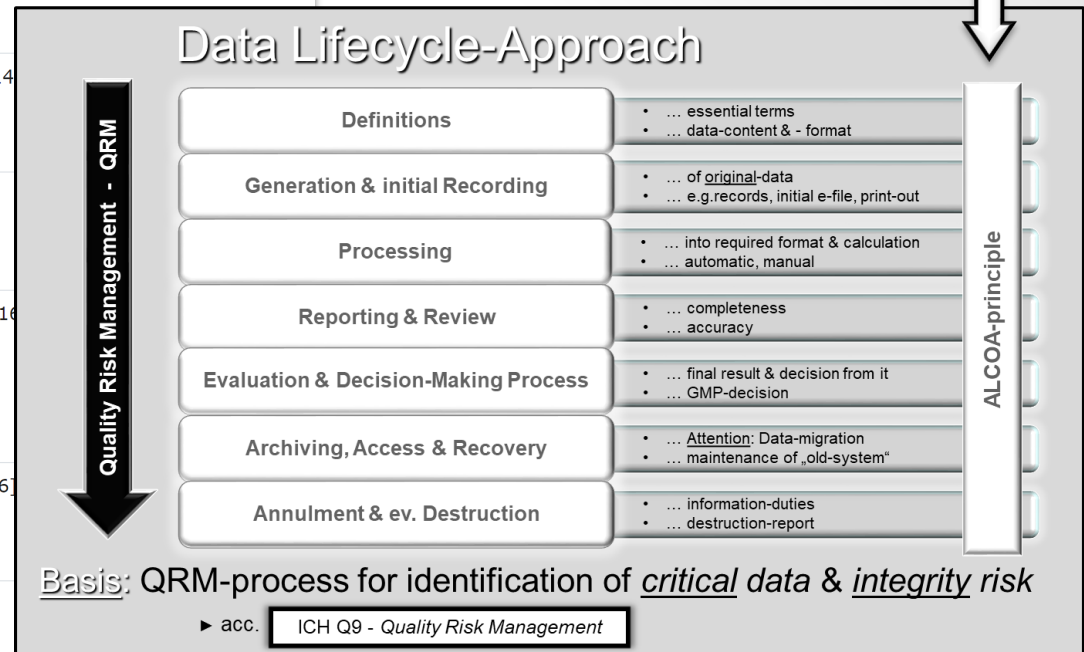
¹Chapter 4 (Part I): Documentation

²Chapter 6 (Part I): Quality control

³Chapter 5 (Part II): Process equipment (computerized system)

⁴Chapter 6 (Part II): Documentation and records

- Essential Topics in inspection
 - Essential EU-GMP requirements -



1. Essential Topics in inspection
 - Essential EU-GMP requirements -

■ Production

■ Process-design

- Personell- & material flow
- Handling of materials
- Generation & removal of dust

■ Cleaning validation & -verification

- Focus: MACO-calculation with PDE from toxicological evaluation
acc. EMA “*Guideline on setting health based exposure limits for use in risk identification in the manufacture of different medicinal products in shared facilities*”
- “Old” acceptance-criteria (10ppm or dose-criteria) only possible if more stringent than “new” criteria



Focus: (Cross-)Contamination & mix-up

see also EU-GMP Part I, chap. 5 - “Prevention of cross-contamination” & chap. 5.21, “Organisational measures”

■ Process-validation (PV) & *Ongoing Process Verification* (OPV)

- Scientific justification for CPPs, CMAs & CQAs from R&D-phase
- CPPs, CMAs & CQAs reflected in control-strategy
- Essential: 3 consecutive successfull batches for initial PV

1. Essential Topics in inspection
 - Essential EU-GMP requirements -

- OPV considers all batches since initial validation (not only batches from current period like PQR)
- Clear criteria for negativ trend in OPV
- Reprocessing of rejected/returned product acc. EU-GMP Part I, chap. 5.67-5.70



Focus: Reliability & robustness of process for ongoing *state of control*

... no processing into compliance or trial-and-error approach

1. Essential Topics in inspection
 - Essential EU-GMP requirements -

■ Quality control

■ Manual integration

- Original data (prior manual integration) archived
- No manual integration (of automatically integrated/calculated OOS-result) into compliance
- Manual integration traceable in Batch Testing Record (BTR) or part of BTR
- Clear procedure who, when, why & how to manually integrate

Decision for manual integration
before knowledge about OOS-result

■ Manual run-abortions

- Abortion-rate
- Manual abortion despite automatic abortion by system (would system also automatically abort?)
- No manual abortion despite auto-sampler for injection
- Scientific justification for abortion documented & traceable
- No manual abortion post sample-injection
- Clear procedure who, when, why & how to manually abort

■ OOS-management ... incl. OOT- & OOL-results

- No incident- or unusual-event system prior OOS-system (... to pre-sort or pre-filter (pot.) OOS-results out)

1. Essential Topics in inspection
 - Essential EU-GMP requirements -

- Invalidation of OOS-results

- Invalidation-rate
- Scientific based, traceable & documented justification for invalidation
- Documented evidence needed
- Retention of initial/original sample preparation within hold-time
- *Hypothesis-Testing* only with initial/original sample preparation
- *Hypothesis-Testing* for root-cause analysis, not for invalidation of OOS-result
- Clear batch disposition procedure i.c. of valid OOS-result

Hold-time study for sample-preparation required to argue with instability



Focus: Integrity & traceability of data esp. i.c. of invalidated non-conformance result

- Ongoing-stability programme

- Representative for all batches in market (OOS triggers recall of all batches in market, not only of OOS-batch)
- Release of batche close to specification-limit should take future stability-OOS into consideration esp. if recurrent
- Attention: Inspectors will link recurrent stability-OOS to process-validity

Stability-OOS most often reason for recalls

1. Essential Topics in inspection
 - Essential EU-GMP requirements -

- Recurrent batch-release close to specification-limit and/or repetitive OOS should trigger
 - a) Investigation, process change, ev. new validation &
 - b) MA-variation depending on change

Wrong quality culture:

Just playing down recurrent stability-OOS to on-off-events and ignoring real root-cause

- **Method-validation**

- Focus: *State of control* (validated state)
- Attention: Inspectors will link frequent incidents, deviations or invalidation of OOS-result to method-validity

1. Essential Topics in inspection
 - Essential EU-GMP requirements -

■ Complaints & quality defects



Focus: Investigation of real root-cause for *Continual Improvement*

■ Inspector's view:

Value of complaint ... if entitled

- Direct response from patient / market
- Direct link to quality, safety & efficacy
- Direct related to product quality („*quality defect*“)

Complaint-handling direct feedback-tool to improve quality !

► Long-term-effect: Costs ↓

Presupposition:

- Objective
- Comprehensive
- Outcome-open

complaint handling !

1. Essential Topics in inspection
 - Essential EU-GMP requirements -

Right intension ... & inspector's focus

- Registration of all quality-defects
 - No pre-sorting & -exclusion in systems prior complaint-management
 - No exclusion in „(external-) call-centers“

Only complete data enables objective complaint-management
- Harmonization of classification & investigation
 - Between individual defect-investigators
 - Between sites (Attention: Global-systems)

Variabilities influence data-basis & -objectivity
- Overall & full root-cause investigation
 - Primary- & secondary level ... „*underlying system*“

Only real (initial) root cause triggers adequate & effective CAPA
- Meaningful trending
 - Only from trends you identify system-failures

1. Essential Topics in inspection
 - Essential EU-GMP requirements -

- „Clustering“ of complaints

- Enables overlapping trending

Clustering reveals hidden trends & system-failures

- Intelligent „clustering“ ► grouping, overlapping, correlating ...

- by dosage form
 - by equipment / rooms
 - by shift
 - by manufacturing-site ...

Trending not only & always rel. to individual batch or product

Overview

1. Essential topics in inspection - Overview
- 2. Which Systems are critical?**
3. Do's & Don'ts in inspection

2. Which systems are critical ?

Questions:

- Which results/events are critical?
- Which systems are worth to be compromised?
- On which systems would you focus ? ... if you would have the intention

Event due to system-failure

Results from systems with neg. impact on QP's batch-release

Events from systems you could personally be blamed for

Results from systems with neg. impact on QP-declaration

Systems which generate costs (e.g. batch-rejection, complaint, recall, market-shortage, variation)

Summary: Everything which „*went wrong*“ rel. to quality & GMP

Systems managing „non-conformances“

2. Which Systems are critical?
- *Knowledge Management* -

„Non-Conformance“ Systems ... in GMP-environment

- Deviation Management
... incl. „Incidents-, events, abnormal results, other non-conformances ...“
- Non-preventive Maintenance
Focus: „Equipment break down“ & resp. run/-sequence abortions
- Change Management ... esp. with CMOs or external laboratories
Focus: MA-relevant changes (variations) on e.g. process, method, materials, supply chain
- OOL, OOT & OOS
Focus: Final product- & stability testing, media monitoring (incl. HVAC)
- Quality Defect-, Complaint- & Recall Management

Indirect via „Non-Conformance“ Systems:

- OPV Ongoing Process Verification, PQR Product Quality Revue, Management Review ► Focus: „State of control“
- Self inspections, audits & authority inspections



„Non-Conformance“ Systems essential for „Knowledge Management“ & „continual improvement“ ... because you can learn from failure-knowledge
Problem: Wrong *Quality Culture* ► Non-objective data management („data integrity“)

Knowledge management:

Systematic approach to acquiring, analysing, storing, and disseminating information related to products, manufacturing processes and components. (ICH Q10)

Pharmaceutical Quality System

■ Aim: Continual Improvement by Knowledge Management

PQS actively indicate need for GMP- or regulatory change on QRM-basis

via **Knowledge Management Elements** over product-/process lifecycle

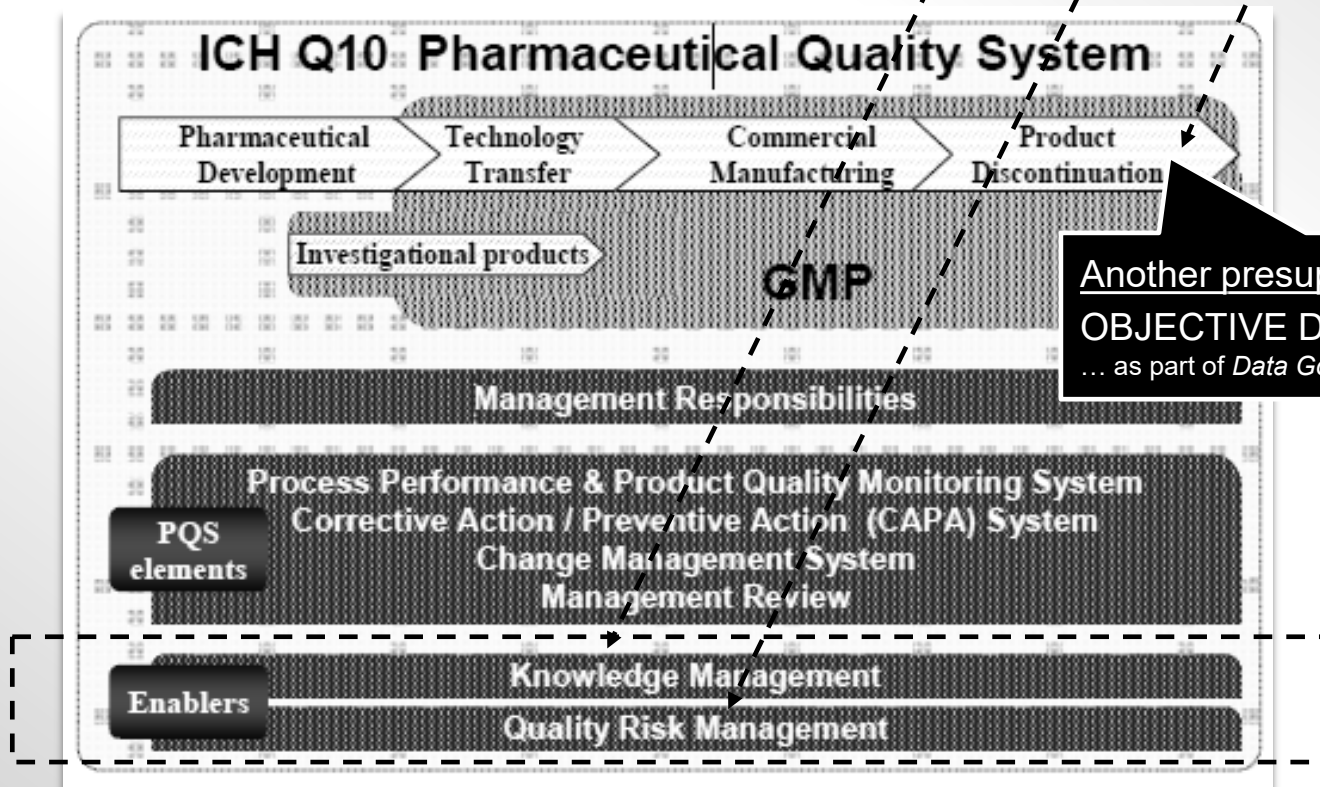


Diagram of the ICH Q10 Pharmaceutical Quality System Model

2. Which Systems are critical?
- Knowledge Management -

■ Knowledge Management Elements from PQS linked to product

Enabler: ICH Q9 - *Quality Risk Management*

■ Essential data systems:

Non-Conformance Management

incl. Investigation, root cause analysis & recall

Incidents & deviations

Quality defects & complaints

OOT-results

OOS-results

Quality Reviews

Management Review

Product Quality Review - PQR

Product- & Process Lifecycle Management

ev. R&D

Validation

Master Batch Record

Manufacture, packaging, testing

Ongoing Process Verification - OPV



Stability programme

■ Essential tools:

Change Management

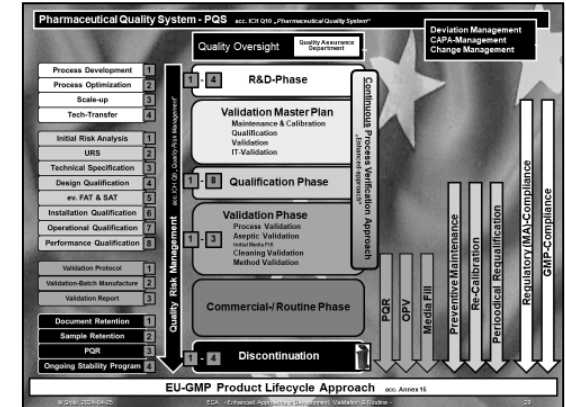
CAPA-System

Regulatory Compliance Management

incl. Variation management

Additional or new PQS-elements for *Knowledge Management & Continual Improvement* not needed, but OBJECTIVE DATA MANAGEMENT within systems

QRM basis for product lifecycle



Risk-mitigating measures e.g.

- Facility-/equipment design
- Qualification tests
- Identification of CMAs, CQAs
- Identification of CPPs
- Process-/method design
- Control strategy
- Process-/method variability & - capability
- Statistical methods
- Trending

... among others

Initiate Quality Risk Management Process

Risk assessment

- Hazard identification
- Risk analysis
- Risk evaluation

unacceptable

Re-evaluation

acceptable

Risk control

- Define mitigating measures

Risk-acceptance

unacceptable

Result: Risk mitigation-strategy

Risk review of events

- Deviations, changes
- OOS, OOT
- ... other events

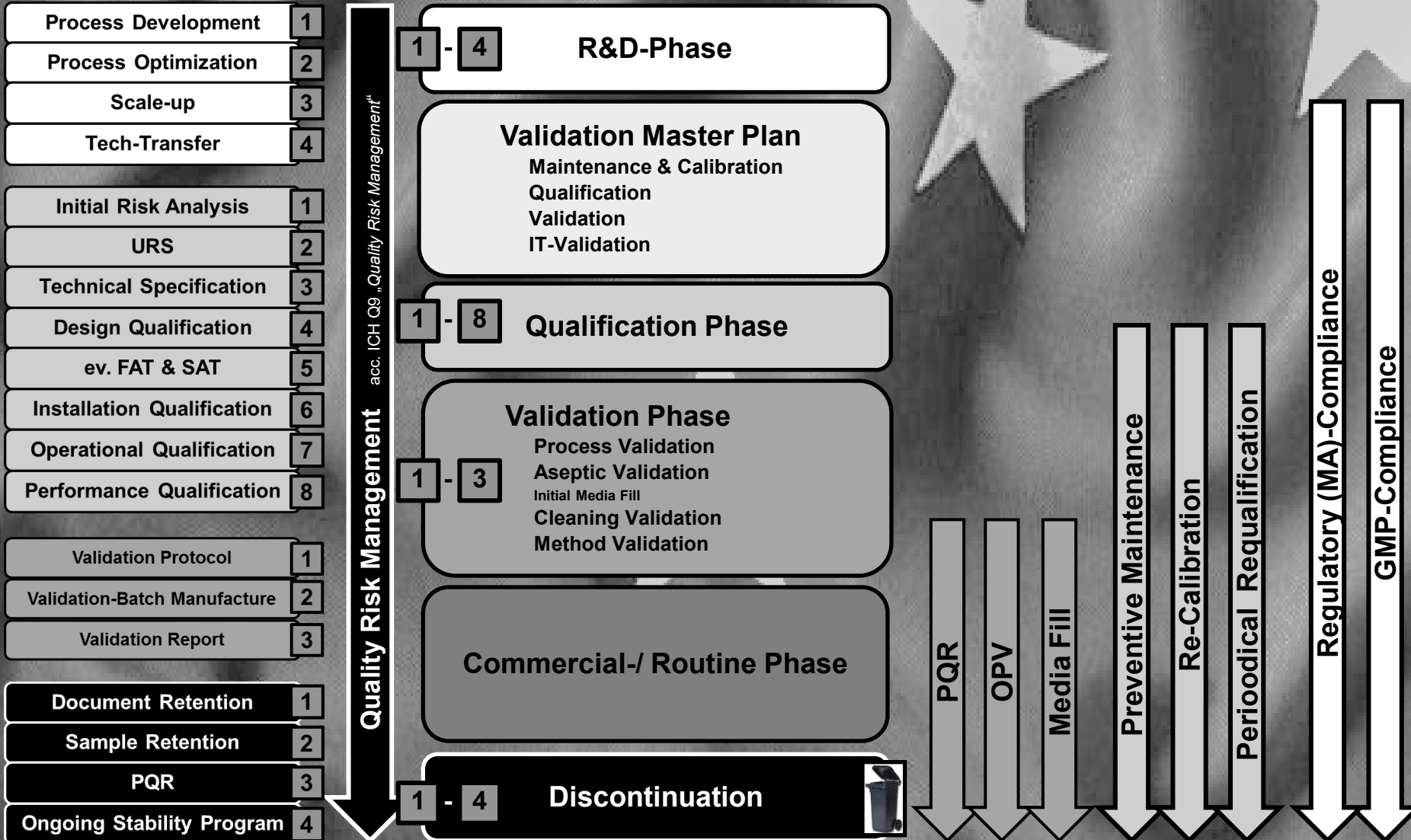
Totality of all risk-mitigating measures:
Control strategy

Risk Communication ... between conc. parties

Risk Communication ... between conc. parties

Risk Manager

Knowledge Management Elements



EU-GMP Product-/Process Lifecycle Approach

acc. Annex 15

GMP- & Regulatory-Compliance

Change Control
System
Lifecycle
MA- & GMP
Compliance

Internal Change Management
External Change Management

Inspector's focus:

- *Outsourced Activities* Management
- *Supplier* Management
- *Contracts* (Focus: Segregation of pharm. responsibilities)

Europe

QP-declaration

Contract
pharmacovigilance

Contract
distribution

Contract
registration

Europe

Released
MP

Status
change

Certified
MP

Import

Packing
materials

Third country authorities'
Written Confirmation

Appropriate-GMP ... for exceptions

Global

Good Distribution Practice - GDP

Raw materials

Reagents

API starting
materials

Reagents

Suppliers

Intermediates

Reagents

Suppliers

API

Bulk-MP

Formulated
MP

Suppliers

Packed
MP

Contract
manufacturers

Contract
manufacturers

Contract lab
EU-reanalysis

Suppliers

Suppliers

Global

... remember ...

2. Which Systems are critical?
 - Objective Data Management

Objective Data Management

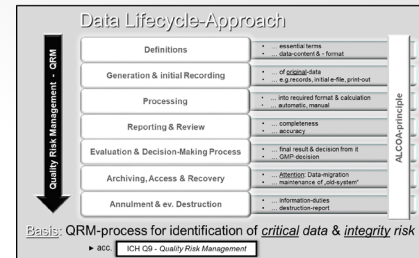
Definition „Data Integrity“

- a. What is “data integrity”?

For the purposes of this guidance, data integrity refers to the completeness, consistency, and accuracy of data. Complete, consistent, and accurate data should be attributable, legible, contemporaneously recorded, original or a true copy, and accurate (ALCOA).⁵

Data integrity is critical throughout the CGMP data life cycle, including in the creation, modification, processing, maintenance, archival, retrieval, transmission, and disposition of data after the record’s retention period ends.⁶ System design and controls should enable easy detection of errors, omissions, and aberrant results throughout the data’s life cycle.

Source: Data Integrity and compliance with drug CGMP, Questions and answers, Guidance for Industry, US-FDA, December 2018



Attributable (data can be assigned to the individual performing the task)

Legible (data can be read by eye or electronically and retained in a permanent format)

Contemporaneous (data is created at the time the activity is performed)

Original (data is in the same format as it was initially generated, or as a 'verified copy', which retains content and meaning)

Accurate (data is true / reflective of the activity or measurement performed)



Adherence of ALCOA-principle over total data-lifecycle

2. Which Systems are critical?
- Objective Data Management



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⁽¹⁾Chapter 4 (Part I): Documentation
⁽²⁾Chapter 6 (Part I): Quality control
⁽³⁾Chapter 5 (Part II): Process equipment (computerized system)
⁽⁴⁾Chapter 6 (Part II): Documentation and records

EMA Q&A-Paper: "*Data integrity*"

■ Question Nr. 13:

How are the data integrity expectations (ALCOA) for the pharmaceutical industry prescribed in the existing EU GMP relating to active substances and dosage forms published in Eudralex volume 4?

■ Answer Nr. 13:

The table below provide for each ALCOA principle the link to EU GMP references (Part I, Part II and Annex 11)



2. Which Systems are critical?
- Objective Data Management

Wrong data management



2. Which Systems are critical?
- Objective Data Management

Which data have to be documented & archived ?

All data, created because of GMP-requirements !

Original data (source data):
„First capture or record of data ...“

- Original-data,
- Meta-data &
- all data processed, filtered, sorted ... from them.

“FDA requires complete data in laboratory records, which includes raw data, graphs, charts and spectra from laboratory instruments”

Quelle: Data Integrity and compliance with drug CGMP, Questions and answers, Guidance for Industry, US-FDA, December 2018

When do I have
an integrity problem?

If I ask myself,
whether I should
document THIS!

If I need to
escalate THIS
prior to
documentation!

If THIS is not
documented at
the end!

Wort-Cluster „Data Integrity“

- ***Bad Documentation Practice***
 - Repetitive unintentionally or systematically
- ***Non-Traceability***
 - Who, what, when, where, how, why ...
- ***Pre-Assessment***
 - Pre-evaluation, -consultation prior initial recording (*pre-capture*)
 - Pre QC-testing
- **Positive-selection - Negative filtration**
 - Partial, sketchy initial recording (*data-gaps*)
 - Filtering for processing, reporting & reviewing
- **Manipulation**
 - Retrospective change, addition or deletion
- **Destruction, deletion & intended new recording**

Attention: Deliberately oral false statements ... acc. inspector's expectation

- Loss in credibility & trust

2. Which Systems are critical?
- Objective Data Management

Essential PQS-element for OBJECTIVE Data Management



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[European Medicines Agency - Science. medicines. health](https://www.ema.europa.eu/)

Questions and answers: Good manufacturing practice

This page lists the European Medicines Agency's answers to frequently asked questions, as discussed and agreed by the Good Manufacturing Practice (GMP) / Good Distribution Practice (GDP) Inspectors Working Group.

Further questions and answers are published as the need arises. Individual questions and answers may be removed when the relevant GMP guidelines are updated.

Q 12: Is it required by the EU GMP to implement a specific procedure for data integrity?

A: There is no requirement for a specific procedure, however it may be beneficial to provide a summary document which outlines the organisations total approach to data governance.

(EMA Q&A-paper on data integrity, 08/2016)



Data Governance Policy (Masterplan)



Pharmaceutical Quality System

2. Which Systems are critical?
- Objective Data Management

Attention: DRAFT

EU-GMP Guide Part I (chap. 4) - *Documentation*

Section Number

1. Principle
2. Scope
3. Data governance systems
4. Generally required GMP documentation (by type)
5. Master Documents (not exhaustive list)
6. Generation and Control of Documentation
7. Good documentation practice
8. Retention of documents
9. Data Integrity in documentation
10. Hybrid Systems
11. Glossary

NEW sections:

- *Data Governance System*
- *GDocP & Data Integrity*
- *Hybrid Systems*
- *Glossary*

... and new order of sections &
arrangement of requirements
within sections

2. Which Systems are critical?
- Wrong *Quality Culture* -

Real Problem:

Wrong *Quality Culture* caused by senior management's pure focus only on business aspects ... in case of non-conformance

1. Priority: Business - 2. Priority: Continuous Supply - 3. Priority: Quality

- “*Non-Conformances*” documented only after consultation
- Pressure on operator's to “*not document*”
- „*Keep non-conformances isolated, un-critical on-off events*”
- “*Do not bring non-conformances on global level*”
- De-escalation of events by so called “*management-escalation-procedure*”
- “*System-failures*” not desired



First other mind-set of Senior Management needed !

Overview

1. Essential topics in inspection - Overview
2. Which Systems are critical?
3. **Do's & Don'ts in inspection**

3. Do's & Don'ts in inspection



What is desired?

- Open & technical based discussions
- Mutual respect
 - Technical based, professional level
- Result-open discussions
 - Focus: *Continual Improvement* (no minimization of findings)
- Open dealing with findings
 - Company: Admitting findings
 - Inspektor: ev. Taking back findings
- Clear answers on clear questions
 - ... even if answer leads to finding
- Asking in anything is unclear

3. Do's & Dont's in inspection



- **Note ...**
 -why requested document is not correct one & reference relevant document
- **Non-existence of documents or gaps**
 - ... acknowledge gaps immediately or promptly
- **Activities realistic according to routine**
 - No special behavior due to "inspection situation"



What should be avoided !

- Delay inspection
 - Documents not provided promptly
 - Repeatedly & deliberately submitting false documents
 - Staff difficult to reach
- Refuse direct access to rooms
 - Rooms not inspected cannot be assessed ► No inspection result
- Vague answers
 - ... verbal information repeatedly deviates from content of documents
 - ... not substantiated & later refuted ► Loss of trust
 - ... according to estimated expectations of inspector
- Equipment & activities regularly "at-rest" during tour
 - ... or only cleaning activities



- "Omniscient" QA department
 - Other departments not represented at all
 - Too late involvement of other departments (delay)
- Unreflective "defense" of defects
 - ... even if associated with *Continual Improvement*
 - ... only to reduce no. of defects ↓
 - ... out of dogmatism
- Immediate correction of findings
- Renewed discussion of defects in final meeting
 - ... even if already exhaustively discussed during inspection
 - ... or conclusively determined in daily wrap-up
- End of inspection
 - "Pushing" at end of day
 - Wanting to "clearly" determine end already at beginning of day



- Request for defect grouping
 - ... only to reduce no. of defects for global QA
- Internal disagreement (dispute) reg.
 - Responsibility for response or
 - Technical content of response
- "Mouthing off"
 - ... in response to report *"everything was completely different", "misunderstood during inspection" or "all a big misunderstanding"*
- Make inspector personally responsible for regulatory requirements
- Answer to report (CAPA-plan) ...
 - ... send "giga byte"
 - ... corrected documents without highlighting changes
 - ... identical argumentation, which was already rejected during the inspection



That's it from the
dark side !!!