

# Regulatory and Legal Basis for Good Manufacturing Practices

APV Training Course  
GMP Requirements  
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Dr. Jürgen Mähltz  
GMP Inspector  
District Government of Swabia  
Fronhof 10  
D-86152 Augsburg  
Germany

# First, who am I?

- German citizen
- Working for the Regional Government of Swabia for almost two years
- Previously worked
  - for more than two years at Hoffmann La Roche, Bale, Switzerland as Head of Laboratory for powder milling and analyzing
  - for more than two years at GGU GmbH as Head of Production; development, scale up and production of a new dry powder inhalation system
- PhD in Pharmaceutical Technology/Pharmacology

# Aims of EU-GMP (1)

- guaranteeing that manufacturers of medicinal products will consistently and reproducibly manufacture products of a high predefined quality and standard
- protecting public health against pharmaceuticals of substandard quality
- providing an operational system for the recall of defective medicinal products

# Aims of EU-GMP (2)

- Contribution of a single market for pharmaceuticals within the EU by elimination of duplicate laboratory testing and inspection
- supporting both of the European authorisation procedures for medicinal products

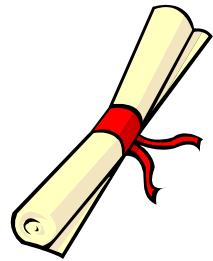
# Germany



## The Federal Republic of Germany

- **structure defined in the Basic Law (Constitution)**
- **16 Laender**
- **all together forming the Federal Republic**
- **competence of Federation and of the Laender**





# Basic Law („Grundgesetz“)

-The German Constitution-

23 May 1949

- **defines functions of the state bodies**
- **distribution of competence between Federation and the Laender**
- **Execution of national power and fulfilment of national duties on Laender level (Art. 30 Basic Law)**

**Federation**



**Laender**



# German Basic Law

- **Federal Laws in areas of common interest**  
(e.g. Drug Law, Law on Medical Devices, Transfusion Act)
  - **executed by the Laender as matters on their own (Art. 84) on basis of Laender laws**
- **Laws on level of the Laender**

# German Drug Authorities

## Structure and Organisation

### Federal level:

**Federal  
Ministries**



### Laender level:

**16 Laender => Ministries**





# Responsibilities in Germany



○ **BMGS German Ministry of Health**  
– “**Bundesoberbehörden**”

● **BfArM**

– Marketing authorisation, (general)

● **PEI**

– MA for blood, sera, vaccines etc.)

★ **16 Federal States Ministries (“Laender”)**  
★ (in Bavaria StMGUV, Munich)

⇔ **with 1 Central Co-ordination Unit (ZLG)**

**in Bavaria**

● **7 Regional Governments (e.g. RvS)**

● Manufacturing and Import Licenses

● Supervision of companies

● WHO Certificates

■ **Laboratory (OMCL Oberschleissheim)**

⇔ **with 1 Central Co-ordination Unit (LGL)**

# Relevant European Legislation

Directives	Pharmaceuticals: 2001/83/EC (hum.) & 2001/82/EEC (vet.)  GMP-Directives: 91/356/EEC (hum) & 91/412/EEC (vet)	transferred into 15 national member state laws
Regulation	EMA, central authorization & supervision of med. products 2309/93/EC	directly binding
Decision	e.g. related to BSE/ TSE	directly binding
Guidelines/ Guidances/ „Soft Law“	GMP – Guide „Rules governing med. products“ Compilation of Community Procedures	current standard

# Agencies of the EC



<b>Cedefop</b>	<b>European Centre for the Development of Vocational Training</b>
<b>EUROFOUND</b>	<b>European Foundation for the Improvement of Living and Working Conditions</b>
<b>EEA</b>	<b>European Environment Agency</b>
<b>ETF</b>	<b>European Training Foundation</b>
<b>EMCDDA</b>	<b>European Monitoring Centre for Drugs and Drug Addiction</b>
<b>EMA</b>	<b>European Agency for the Evaluation of Medicinal Products</b>
<b>OHIM</b>	<b>Office for Harmonisation in the Internal Market (Trade Marks and Designs)</b>
<b>EU-OSHA</b>	<b>European Agency for Safety and Health at Work</b>
<b>CPVO</b>	<b>Community Plant Variety Office</b>
<b>CdT</b>	<b>Translation Centre for the Bodies of the European Union</b>
<b>EUMC</b>	<b>European Monitoring Centre on Racism and Xenophobia</b>
<b>EAR</b>	<b>European Agency for Reconstruction</b>
<b>EFSA</b>	<b>European Food Safety Authority New</b>
<b>EMSA</b>	<b>European Maritime Safety Agency New</b>
<b>EASA</b>	<b>European Aviation Safety Agency New</b>

# Compilation of Community Procedure

- Rapid alerts, recalls
- GMP inspections:
  - »Conduct
  - »Third country inspections
  - »Training of inspectors
- GMP Inspection report format

# Compilation of Community Procedure

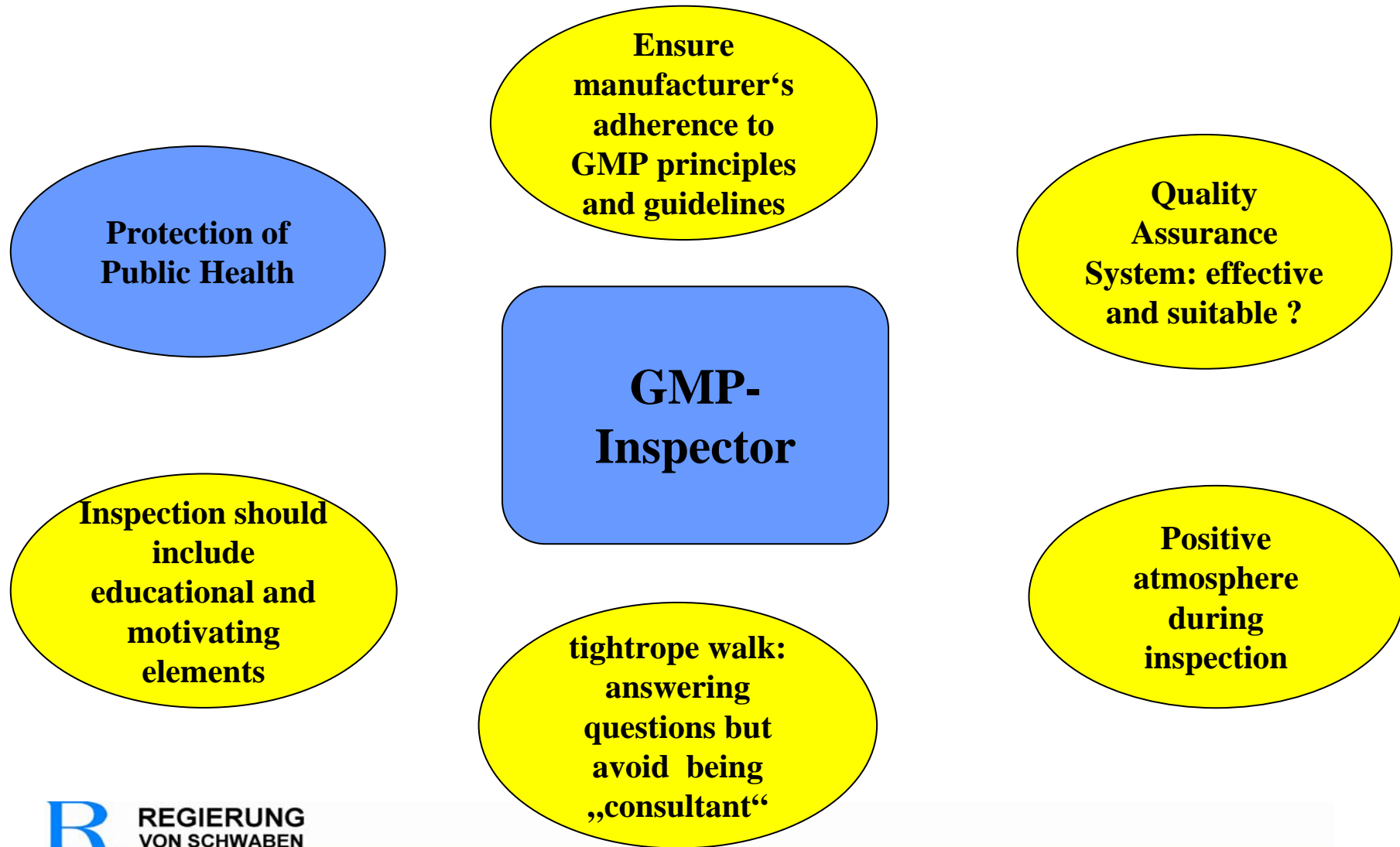
- Format for manufacturing authorization
- Exchange of information within the EU
- Batch certificates in the context of an MRA
- Inspections within the centralized procedure

# Compilation of Community Procedure

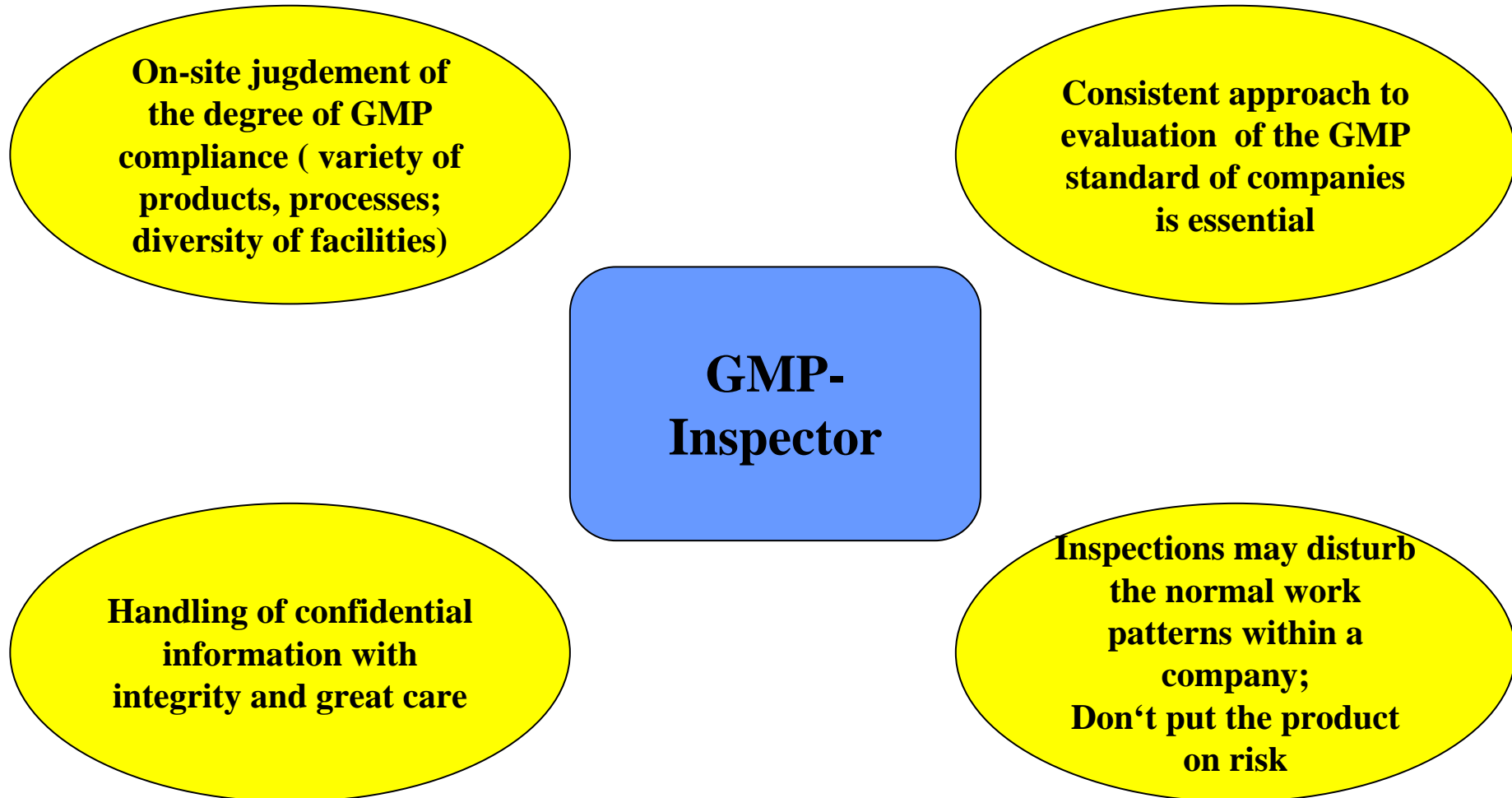


Verknüpfung mit [Compilation of Community Procedures 2001.pdf.lnk](#)

# General Considerations on Inspections (1)



# General Considerations on Inspections (2)





# General Aspects of National GMP Inspections (1)

- Checking GMP-compliance of manufacturers
- requirements are defined in 2003/94/EC (replaces 91/356/EEC) and 2001/83/EC for manufacturing of human medicinal products
- 91/412/EEC and 2001/82/EC for veterinary medicinal products

# General Aspects of National GMP Inspections (2)

- Inspections should be carried out at least every two years
- large companies may be visited department by department being completed at least every five years
- interval between inspection should never exceed 3 years

# Types of Inspections (1)

- National Inspections
- Inspections in third countries
- inspections requested by EMEA (CPMP/CVMP) due to a centrally authorised medicinal product

# Types of Inspections (2)

- General GMP-Inspection
- Re-Inspections
- product- or process related inspections
- inspections caused by an actual event (in this case the visit could be unannounced)

# Conditions for unannounced inspections (1)

- Release not according to marketing authorisation
- Recalls
- Complaints
- Changing of key personnel or important premises/equipment without notifying the inspectorate

# Conditions for unannounced inspections (2)

- Verifying the corrective actions when many deficiencies were found
- company tries to hide something

# Planning of Inspections

- Elaboration of a programme
- Ensure that frequency of inspection of individual manufacturers can be adhered to as planned
- Sufficient resources must be determined and available

# Preparation of Inspection

- Type and scope of inspection
- Review of latest Site Master File
- Previous reports, pending issues
- New products, equipment or premises
- preparing agenda, length of visit
- composition of inspection team (experts needed eg. for sterile products, blood)



# Site Master File (1)

- Prepared by the manufacturer
- contains specific information about the quality assurance, the production and quality control of pharmaceutical manufacturing operations
- wherever possible, simple plans, outline drawings or schematic layouts should be used

# Site Master File (2)

- General information on the firm (including name and Address) and its structure
- description of pharmaceutical activities (dosage forms)
- personnel (organisation chart)
- premises and equipment
- documentation

# Site Master File (3)

- Brief description production operations
- arrangement for the handling of starting and packaging materials, bulk and finished products
- sampling, quarantine, release and storage
- arrangements for reprocessing or rework
- handling of rejected materials and products

# Site Master File (4)

- Brief description of general policy for process validation
- quality control system
- contract manufacture and analysis
- Distribution, complaints and recalls
- Self inspection

# Announcement of Inspection

- Competent Authorities have the right to inspect at any time (including during shift work)
- Normally is it useful to announce in advance
  - Date and length of inspection
  - Objectives
  - Special documents

# Procedure during Inspection

- Opening meeting
- Short orientation tour (new companies)
- Inspection
- Review of documents requested in the opening meeting
- Internal meeting of GMP team
- Closing meeting

# Opening Meeting (1)

- Participants: inspection team; personnel responsible for production and quality control, representative of the management of the pharmaceutical company
- scope and timeline of inspection
- check of quality management structure
- qualifications, experience, responsibilities of key personnel

# Opening Meeting (2)

- organisation chart
- GMP-training plan and documents about training
- request for documents that will be reviewed later
- general questions about products (new dosage forms, different active ingredients, equipment, facilities ...)



# Inspection Tour

- Normally: following the material flow
- beginning with income of starting and packaging materials
- Production
- Quality control
- handling of finished products
- rejected, recovered, returned materials

# Document Review

- Qualification, Validation (Validation Master Plan, Protocols...)
- Standard Operation Procedures (SOP)
- Batch processing records (examples)
- analytical protocols
- procedure for batch release

# Document Review (2)

- Written contracts for contract manufacturing and analysis
- procedure for handling recalls and complaints
- procedure for self-inspections

# Closing Meeting

- The inspection team presents the found deficiencies
- definition of the severity of the deficiencies (critical, major, minor)
- discussion about corrective actions
- timelines

# Classification of deficiencies (1)

- Probability of severe risk for public health ?
- **Critical** (may cause death or severe illness)
- **Major** (severe quality defect)
- **Minor** (e.g. significant non compliance to EU-GMP)

# Procedure after inspection

- In case of critical deficiencies: official request for immediate action
- Report preparation (ASAP, up to 2 months)
- Distribution
- Time for company response
- Correction action plan or follow-up-inspection

# To whom is the report send

- Original to QP or management of company with a cover letter with a time frame for answering and corrective actions
- copies to agencies responsible for certificates and issuing of marketing authorisation

# Follow up (1)

- Correspondence with company or re-inspection (follow-up-inspection)
- criteria for time frames:
- proposals for critical deficiencies in closing meeting agreed



# Follow up (2)

- Time frames for critical e.g. 5 days, major 10 days for proposals for corrective actions (deficiencies related to investment)
- time frame 28 days for procedures