Good Manufacturing Practice (GMP) Guidelines (Eudralex-Volume 4)

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ABSTRACT

The basic rules in any good manufacturing practice (GMP) regulations postulate that the pharmaceutical manufacturer must maintain appropriate documentation and records. Documentation helps to build up a detailed interpretation of what a manufacturing function has done in the past and what it is doing now and, thus, it provides a base for planning what it is going to do in the future. Regulatory evaluators, during their inspections of manufacturing sites, often devote much time on examining a company's documents and records. Effective documentation boosts the visibility of the quality assurance system.

KEY WORDS: GMP, 21 CFR, Part 210 and 211, Documentation, Regulations Agencies

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HISTORY OF GMP

- US patented medicine, first produced in 1861 in Chicago by former magician John Austen Hamlin and his brother Lysander Butler Hamlin
- Primarily sold and used as liniment for rheumatic pain and sore muscles
- Was also advertised as a treatment for cancer, pneumonia, diphtheria, earache, toothache headache and hydrophobia.
- Made of 50% 70% alcohol containing camphor, ammonia, chloroform, sassafras, cloves and turpentine and was said to be usable both internally and topically In 1916, Lysander's son Lawrence B. Hamlin, was fined \$200 under the 1906 Pure Food and Drug Act for misbranding it as a 'cancer drug'



Eudralex Volume 4

Liying Dong

Eudralex Volume 4:

Good Manufacturing Practice (GMP) Guidelines Mindy J. Allport-Settle, 2009-12 This title combines all of the human and veterinary Regulations Directives and guidance for medicinal products used by the pharmaceutical industry as their main source when manufacturing and distributing medicinal products in the European Union **Handbook of Pharmaceutical** Manufacturing Formulations, Third Edition Sarfaraz K. Niazi, 2019-12-06 The Handbook of Pharmaceutical Manufacturing Formulations Third Edition Volume Four Semisolid Products is an authoritative and practical guide to the art and science of formulating drugs for commercial manufacturing With thoroughly revised and expanded content this fourth volume of a six volume set compiles data from FDA and EMA new drug applications patents and patent applications and other sources of generic and proprietary formulations including author's own experience to cover the broad spectrum of cGMP formulations and issues in using these formulations in a commercial setting A must have collection for pharmaceutical manufacturers educational institutions and regulatory authorities this is an excellent platform for drug companies to benchmark their products and for generic companies to formulate drugs coming off patent Features Largest source of authoritative and practical formulations cGMP compliance guidance and self audit suggestions Differs from other publications on formulation science in that it focuses on readily scalable commercial formulations that can be adopted for cGMP manufacturing Tackles common difficulties in formulating drugs and presents details on stability testing bioequivalence testing and full compliance with drug product safety elements Written by a well recognized authority on drug and dosage form development including biological drugs and alternative medicines Pharmaceutical Medicine and **Translational Clinical Research** Divya Vohora, Gursharan Singh, 2017-11-14 Pharmaceutical Medicine and Translational Clinical Research covers clinical testing of medicines and the translation of pharmaceutical drug research into new medicines also focusing on the need to understand the safety profile of medicine and the benefit risk balance Pharmacoeconomics and the social impact of healthcare on patients and public health are also featured It is written in a clear and straightforward manner to enable rapid review and assimilation of complex information and contains reader friendly features As a greater understanding of these aspects is critical for students in the areas of pharmaceutical medicine clinical research pharmacology and pharmacy as well as professionals working in the pharmaceutical industry this book is an ideal resource Includes detailed coverage of current trends and key topics in pharmaceutical medicine including biosimilars biobetters super generics and Provides a comprehensive look at current and important aspects of the science and regulation of drug and biologics discovery The Handbook of Basic GMP Requirements Karyn Noemi Santoro, 2020-10-23 This Handbook of Basic GMP Requirements is a collection of official guidelines reported in the Eudralex website Volume 4 Specifically all nine chapters from Part I Basic Requirements for Medicinal Products are here reported Since the pharmaceutical industry of the European Union maintains high standards of Quality Management in the development

manufacture and control of medicinal products a regulated system is required to ensure that all medicinal products are assessed by a competent authority to ensure compliance with contemporary requirements of safety quality and efficacy Building a good quality system ensures not only that all products shipped around the European market are manufactured imported only by authorised manufacturers but also that whose activities are regularly inspected by the competent authorities using Quality Risk Management principles Pharmaceutical industries must follow these guidelines and thanking to their persistent effort they will be able to successfully manufacture a high quality deliverable stable medicine for human use and controlled according to quality standards appropriate to their intended use and as required by the marketing authorization Good Manufacturing Practice guidelines aimed primarily at diminishing the risks inherent in any pharmaceutical production and not place the patients health at risk due to inadequate safety quality or efficacy Kev **Publications of the European Union**, 2005 Technical Report Series ,1950 Rift-lines within European regulatory framework for Biosimilars when taking heterogeneity and variation during lifecycle of the reference biologic and the biosimilar into account Malik Osmane, 2013-10-15 Master's Thesis from the year 2013 in the subject Medicine Pharmacology Pharmacy grade 1 st CLASS HONS Dublin Institute of Technology Chemistry course Pharmaceutical Quality Assurance Regulatory Affairs language English abstract During the course of this thesis evidence was presented and discussed related to the research questions. The fundamental question related to the heterogeneity and variation through the life cycle of the biosimilar and the reference biologic remains neglected based on the results collected during this thesis by the stakeholders mainly because those issues where not addressed in any official regulatory guidance document As clear guidance from the EMA is lacking with the only available guidance being that once a marketing authorization is issued it is accepted that the quality profiles of the reference biologic and the biosimilar will have different quality profiles Abstract Within the biosimilar development context there are unaddressed questions by the European Medicines Agency EMA with regard to the impacts of shifts of the quality profile purity and impurity levels of the reference biologic for the biosimilar development program This dynamic is an open issues has potentially implications on the comparability exercise of the before mentioned Opinions from experts involved in the guidance drafting process of EMA and other were evaluated with regard to the issue The Rules Governing Medicinal Products in the European Union Commission of the European Communities, European Commission, 1998 This guide is presented in chapters each headed by a principle of GMP outlining the Quality Assurance objectives of that chapter The Rules Governing Medicinal Products in the European Union ,1998 The Qualified Person ,2007 **Liposome Technology** Gregory Gregoriadis, 2006-09-12 Liposome Technology Volume I Liposome Preparation and

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