

Reference Guide For Pharmaceutical Calculations

External reference pricing than based on indices. The reference countries basket should be chosen in accordance with the aim of the national pharmaceutical policy. It contrasts with internal reference pricing, where the price of one drug is compared to the domestic price of therapeutically related drugs, and with cost-plus pricing, where the price involves negotiating an acceptable markup to the unit cost to develop and produce. Evidence has shown External reference pricing (ERP), also known as international reference pricing, is the practice of regulating the price of a medication in one country, by comparing with the price in a "basket" of other reference countries b43af47886

A supplementary protection certificate comes into force... b43af47886 The term is used when developing materials about a topic (a book, an examination, a manual, etc.), and... b43af47886

Area under the curve (pharmacokinetics) In practice, the drug concentration is measured at certain discrete points in time and the trapezoidal rule is used to estimate AUC. concentrations in a patient's plasma and calculation of the AUC is used to guide the dosage of this drug. AUC becomes useful for knowing the average concentration In the field of pharmacokinetics, the area under the curve (AUC) is the definite integral of the concentration of a drug in blood plasma as a function of time (this can be done using liquid chromatography-mass spectrometry). In pharmacology, the area under the plot of plasma concentration of a drug versus time after dosage (called "area under the curve" or AUC) gives insight into the extent of exposure to a drug and its clearance rate from the body b43af47886

Subject-matter expert For example, a PhD in chemistry could be easily declared as a SME in chemistry, or a person with a Second Class Radiotelegraph License or equivalent issued by the national licensing body could be considered a SME in radiotelegraphy. Experts (SME)". "ASTM E2500 13: Standard Guide for Specification, Design, and Verification of Pharmaceutical and Biopharmaceutical Manufacturing Systems - A subject-matter expert (SME) is a person who has accumulated great knowledge in a particular field or topic and this level of knowledge is demonstrated by the person's degree, licensure, and/or through years of professional experience with the subject. A person with a master's degree in electronic engineering could be considered a subject-matter expert in electronics, or a person with many years of experience in machining could be considered a SME in machining b43af47886

Pharmacist A pharmacist also often serves as a primary care provider in the community and offers services, such as health screenings and immunizations. open-book/mental calculations paper (using the British National Formulary and the GPhC's "Standards of

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Conduct, Ethics and Performance" document as reference sources) A pharmacist, also known as a chemist in Commonwealth English, is a healthcare professional who is knowledgeable about preparation, mechanism of action, clinical usage and legislation of medications in order to dispense them safely to the public and to provide consultancy services b43af47886

Pharmacists undergo university or graduate-level education to understand the biochemical mechanisms and actions of drugs, drug uses, therapeutic roles, side effects, potential drug interactions, and monitoring parameters. In developing countries, a diploma course from approved colleges qualifies one for pharmacist role. This is mated to anatomy, physiology, and pathophysiology... b43af47886

Protocol (science) Protocols are written whenever it is desirable to standardize a laboratory method to ensure successful replication of results by others in the same laboratory or by other laboratories. In addition to detailed procedures, equipment, and instruments, protocols will also contain study objectives, reasoning for experimental design, reasoning for chosen sample sizes, safety precautions, and how results were calculated and reported, including statistical analysis and any rules for predefining and documenting excluded. Additionally, and by extension, protocols have the advantage of facilitating the assessment of experimental results through peer review. calculations and statistics: Protocols for methods that produce numerical results generally include detailed formulas for calculation of results In natural and social science research, a protocol is most commonly a predefined procedural method in the design and implementation of an experiment. results b43af47886

Supplementary protection certificate certificates for products authorised via the "centralised" procedure reveals that at least the patent office in Belgium already appears to base calculations of In the European Economic Area (European Union member countries, Iceland, Liechtenstein and Norway), a supplementary protection certificate (SPC) is a sui generis intellectual property (IP) right that extends the duration of certain rights associated with a patent. e. Supplementary protection certificates were introduced to encourage innovation by compensating for the long time needed to obtain regulatory approval of these products (i. insecticides, and herbicides). g. authorisation to put these products on the market). It enters into force after expiry of a patent upon which it is based. This type of right is available for various regulated, biologically active agents, namely human or veterinary medicaments and plant protection products (e b43af47886

Environmental persistent pharmaceutical pollutant The occurring problems from EPPPs are in parallel explained under environmental impact of pharmaceuticals and personal care products (PPCP). The European Union summarizes pharmaceutical residues with the potential of contamination of water and soil together with other micropollutants under "priority substances". environmental persistent pharmaceutical pollutants (EPPP) was first suggested in the nomination in 2010 of pharmaceuticals and environment as an emerging The term environmental persistent pharmaceutical pollutants (EPPP) was first suggested in the nomination in 2010 of pharmaceuticals and environment as an emerging issue in a Strategic Approach to International Chemicals Management (SAICM) by the International Society of

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Doctors for the Environment (ISDE) b43af47886

The field encompasses drug composition and properties, functions, sources, synthesis and drug design, molecular and cellular mechanisms, organ/systems mechanisms, signal transduction/cellular communication, molecular diagnostics, interactions, chemical biology, therapy, and medical applications, and antipathogenic capabilities. The two main areas of pharmacology are pharmacodynamics and pharmacokinetics... b43af47886 There is no single cause for osteopenia, although there are several risk factors, including modifiable (behavioral, including dietary and use of certain drugs) and non-modifiable (for instance, loss of bone mass with age). For people with risk factors, screening via a DXA scanner may help to detect the development and progression of low bone density. Prevention of... b43af47886

Validation (drug manufacture) Qualification of systems and equipment is therefore a part of the process of validation. The process of establishing documentary evidence demonstrating that a procedure, process, or activity carried out in testing and then production maintains the desired level of compliance at all stages. In the pharmaceutical industry, it is very important that in addition to final testing and compliance of products, it is also assured that the process will consistently produce the expected results. production maintains the desired level of compliance at all stages. The desired results are established in terms of specifications for outcome of the process. Validation is a requirement of food, drug and pharmaceutical regulating agencies such as the US FDA. In the pharmaceutical industry, it is very important that in addition to final testing and In drug manufacture, validation is a documented process to ensure a product meets its required specifications and quality b43af47886

Pharmacology If substances have medicinal properties, they are considered pharmaceuticals. function. If substances have medicinal properties, they are considered pharmaceuticals. More specifically, it is the study of the interactions that occur between a living organism and chemicals that affect normal or abnormal biochemical function. The field encompasses drug composition and properties, functions, Pharmacology is the science of drugs and medications, including a substance's origin, composition, pharmacokinetics, pharmacodynamics, therapeutic use, and toxicology b43af47886

Osteopenia warrant pharmaceutical treatment. Many people with osteopenia may be advised to follow risk prevention measures (as above). Because their bones are weaker, people with osteopenia may have a higher risk of fractures, and some people may go on to develop osteoporosis. In 2010, 43 million older adults in the US had osteopenia. Risk of fracture guides clinical Osteopenia, known as "low bone mass" or "low bone density", is a condition in which bone mineral density is low. Unlike osteoporosis, osteopenia does not usually cause symptoms, and losing bone density in itself does not cause pain b43af47886

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