

Pharmacology For Pharmacy Technician Study Guide

Pharmacy school

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The basic requirement for pharmacists to be considered for registration is often an undergraduate or postgraduate pharmacy degree from a recognized university. In many countries, this involves a four- or five-year course to attain a bachelor of pharmacy or master of pharmacy degree.

In the United States since 2003, students must complete a doctor of pharmacy degree to become a licensed pharmacist, with a similar requirement being introduced in some other countries such as Canada and France. The doctor of pharmacy degree usually requires completion of four years at an accredited college of pharmacy after an undergraduate degree or other approved courses.

To practice as a pharmacist, registration with the country, state, or province's regulatory agency is required. There is often a requirement...

Doctor of Pharmacy

or 9 years for students choosing residency (hospital pharmacy, medical biology) or pharmacology. In Italy the Professional degree in Pharmacy lasts 5 years

A Doctor of Pharmacy (PharmD; Neo-Latin: Pharmaciae Doctor) is a professional doctorate in pharmacy. In some countries, it is a proficient graduate degree to practice the profession of pharmacy or to become a clinical pharmacist. In many countries, people with their Doctor of Pharmacy are allowed to practice independently and can prescribe drugs directly to patients. A PharmD program has significant experiential and/or clinical education components in introductory and advanced levels for the safe and effective use of drugs. Experiential education prepares graduates to be practice-ready, as they already have spent a significant amount of time training in areas of direct patient care and research.

Pharmacist

are educated in pharmacology, pharmacognosy, chemistry, organic chemistry, biochemistry, pharmaceutical chemistry, microbiology, pharmacy practice (including

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. A pharmacist also often serves as a primary care provider in the community and offers services, such as health screenings and immunizations.

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...

Practicing without a license

had a valid pharmacy technician license that had expired, and who had practiced as a pharmacist—supervising pharmacist and pharmacy technician interns, giving

Practising without a license is the act of working without the licensure offered for that occupation, in a particular jurisdiction. Most activities that require licensure also have penalties for practicing without a valid, current license. In some jurisdictions, a license is offered but not required for some professions.

Polysulfated glycosaminoglycan

for Veterinary Technicians and Nurses. John Wiley & Sons. p. 140. ISBN 9781118811160. Wanamaker BP, Massey K (2014-03-25). Applied Pharmacology for Veterinary

Polysulfated glycosaminoglycan (PSGAG), sold under the brand name Adequan, is an injectable drug for dogs and horses that is used to alleviate the limpness, pain, and lowered range of motion caused by arthritis. It is made of repeat disaccharide units (comprising hexosamine and hexuronic acid), and is similar to glycosaminoglycans already present in the cartilage; PSGAG thus easily integrates itself there. In vitro studies have shown it to inhibit the enzymes that degrade cartilage and bone, as well as suppress inflammation and stimulate the synthesis of replacement cartilage. While it can cause an increased risk of bleeding, it is relatively safe and has a high LD50. PSGAG is one of the most widely prescribed joint treatments for horses.

While it is widely used, some studies still show conflicting...

University of Cincinnati Health

help enhance the skills of practicing pharmacists and pharmacy technicians. The Doctor of Pharmacy Degree is the only entry-level professional degree offered

University of Cincinnati Health (UC Health) is the healthcare system of the University of Cincinnati, Cincinnati, Ohio. It trains health care professionals and provides research and patient care. The system is affiliated with the University via the University of Cincinnati Academic Health Center (AHC).

Most of the system's facilities are spread among three major campuses in the Cincinnati metropolitan area: the Clifton campus, home to the flagship University of Cincinnati Medical Center, the Galbraith Campus, and the West Chester campus.

Medication

the medical field and relies on the science of pharmacology for continual advancement and on pharmacy for appropriate management. Drugs are classified in

Medication (also called medicament, medicine, pharmaceutical drug, medicinal product, medicinal drug or simply drug) is a drug used to diagnose, cure, treat, or prevent disease. Drug therapy (pharmacotherapy) is an important part of the medical field and relies on the science of pharmacology for continual advancement and on pharmacy for appropriate management.

Drugs are classified in many ways. One of the key divisions is by level of control, which distinguishes prescription drugs (those that a pharmacist dispenses only on the medical prescription) from over-the-counter drugs (those that consumers can order for themselves). Medicines may be classified by mode of action, route of administration, biological system affected, or therapeutic effects. The World Health Organization keeps a list of...

Naloxone

paramedics, medical technicians, and emergency medical responders can also prescribe and distribute the drug. As of February 2016, pharmacies across Alberta

Naloxone, sold under the brand name Narcan among others, is an opioid antagonist, a medication used to reverse or reduce the effects of opioids. For example, it is used to restore breathing after an opioid overdose. Effects begin within two minutes when given intravenously, five minutes when injected into a muscle, and ten minutes as a nasal spray. Naloxone blocks the effects of opioids for 30 to 90 minutes.

Administration to opioid-dependent individuals may cause symptoms of opioid withdrawal, including restlessness, agitation, nausea, vomiting, a fast heart rate, and sweating. To prevent this, small doses every few minutes can be given until the desired effect is reached. In those with previous heart disease or taking medications that negatively affect the heart, further heart problems have...

Pancreatic enzymes (medication)

ISBN 978-0-85711-156-2. Stuhan MA (2013). Understanding Pharmacology for Pharmacy Technicians. ASHP. p. 597. ISBN 978-1-58528-360-6. Archived from the

Pancreatic enzymes, also known as pancreases, pancrelipases or pancreatins are commercial mixtures of amylase, lipase, protease and lactase obtained from pigs. The components are digestive enzymes similar to those normally produced by the human pancreas. They help in the digestion of fats, starches, and proteins. They are used to treat malabsorption syndrome due to certain pancreatic insufficiencies. These pancreatic problems may be due to cystic fibrosis, surgical removal of the pancreas, long-term pancreatitis, pancreatic cancer, or MODY 5, among others. The preparation is taken by mouth. The treatment is also known as pancreatic enzyme replacement therapy or PERT.

Common side effects include vomiting, abdominal pain, constipation, and diarrhea. Other side effects include perianal irritation...

Conjugated estrogens

(1 December 2012). Pharmacology for Pharmacy Technicians Pageburst E-Book on VitalSource2: Pharmacology for Pharmacy Technicians Pageburst E-Book on

Conjugated estrogens (CEs), or conjugated equine estrogens (CEEs), sold under the brand name Premarin among others, is an estrogen medication which is used in menopausal hormone therapy and for various other indications. It is a mixture of the sodium salts of estrogen conjugates found in horses, such as estrone sulfate and equilin sulfate. CEEs are available in the form of both natural preparations manufactured from the urine of pregnant mares and fully synthetic replications of the natural preparations. They are formulated both alone and in combination with progestins such as medroxyprogesterone acetate. CEEs are usually taken by mouth, but can also be given by application to the skin or vagina as a cream or by injection into a blood vessel or muscle.

Side effects of CEEs include breast tenderness...

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