

Chapter 1 : Simplifying Deconvolution “ Certara

Includes Pharmacology Nursing Mnemonics & Tips that are visual. Simplify the concepts of pharmacology with these memory-aids! Find this Pin and more on Pharmacology made easy by Louise Swanepoel.

Unfortunately the term can be confusing and explanations are generally even more confusing. While deconvolution is not a simple topic, I believe it can be understood so that more scientists can apply the principles to their work. Convolution describes a combination of two mathematical functions that create a third mathematical function. Let me over-simplify this for explanation purposes. The following mathematical equation is readily understood: We commonly understand x , y , and z to be individual values or numbers. So a convolution in simple terms is the combination of two functions that give rise to a third function. If you know x and y , you can perform a convolution to find z . If you know z and y , then you can perform a deconvolution to find x . Deconvolution is the opposite of convolution. You know the resulting function and one of the starting functions and you want to deconvolve to get the other starting function. Deconvolution is used in many areas of science, but particularly in photo editing with blur and sharpen methods. Gaussian blur as demonstrated in the picture of the butterfly uses deconvolution methods. So how does this apply to pharmacokinetics? Imagine a single particle of drug administered by oral ingestion. Once that particle is absorbed into the blood and passes through the liver first pass effect, it acts the same way that a particle would if it had been injected into the blood stream directly. This means that a plasma concentration-time curve is simply a convolution of an absorption function and an IV disposition function. You can maybe think of the system of equations as the following: To use deconvolution methods, you will need concentration-time data from IV and oral administration. Point area methods of deconvolution are used to calculate the amount of drug absorbed in a given interval, the cumulative amount of drug absorbed, and the fraction remaining to be absorbed using deconvolution. Convolution and deconvolution methods are frequently used to establish in vitro-in vivo correlations IVIVCs.

Chapter 2 : Pharmacology - Simple English Wikipedia, the free encyclopedia

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In this excerpt from NCLEX-PN Review Complete Video Course >, learn about the three main areas of the study of pharmacology: pharmacokinetics, pharmacodynamics, and pharmacotherapeutics; key abbreviations, and the seven rights of administering medication.

Origin of the word[change change source] If something can be used as a medicine , it is called a pharmaceutical. Pharmacology includes how drugs are made, how they interact with living organisms , what harmful effects they could have, how they can be used as medicines, and if they can be used to prevent illness. A person who works in the study of pharmacology is called a pharmacologist. Pharmacologists work in a team with biochemists , geneticists , microbiologists , toxicologists and pharmacists to run clinical tests on how drugs work. Uses of pharmacology[change change source] The development of drugs is very important to medicine, but it also has strong economical and political uses. To protect people and prevent abuse , some countries try to control the way in which drugs are made, sold, and administered. Scientific background[change change source] To study chemicals, a person needs to know a lot about what will be affected if it is ingested taken into the body. As more people know about cell biology and biochemistry , the field of pharmacology has changed as well. It is now possible to design chemicals that do specific things. A chemical can have different properties. When a pharmacologist is talking about pharmacokinetic properties of a chemical, they are interested in four things: Absorption - How is the medication absorbed through the skin, the intestine, the mouth? Distribution - How does it spread through the organism? Metabolism - Is the medication converted chemically inside the body, and into what. Are these new substances active? Could they be toxic? Excretion - How does the organism get rid of the chemical through the bile , urine , breath , skin? Medication is said to have a narrow or wide therapeutic index. This describes the ratio of desired effect to toxic effect. A medicine with a narrow therapeutic index close to one only does what people want it to do when the amount given is enough to put the organism in danger. A medicine with a wide therapeutic index greater than five does what people want it to do and does not necessarily put the organism in danger. Medication with a narrow margin are more difficult to dose and give to a person, and may require therapeutic drug monitoring examples are warfarin , some antiepileptics , aminoglycoside antibiotics. Most anti- cancer drugs have a narrow therapeutic margin; toxic side-effects are almost always encountered at doses needed to kill tumours. Drugs as medicine[change change source] Drugs that are given to people to help cure them of a medical condition or help reduce the symptoms are often licensed. They can be divided into three groups: Most over-the-counter medication will not hurt a person if they take a bit more than they are meant to. Medications are often produced by pharmaceutical companies and are often patented. Drugs that are not patented are called generic drugs.

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What is Pharmacology?3 4. What is Pharmacology? 4In simple words, "Study of the effects of drugs on the function of living systems"Drug: a chemical substance of known structure, which, when administered to a living organism, produces a biological effect. 5. Pharmacology5 6.

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Pharmacology Directly linked to the pathophysiology of a particular disease Drug = a substance that alters biologic activity in a person May be from natural sources.

Chapter 9 : Pharmacology Made Easy

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