

The Dose

Patricia Frank, M. Alice Ottoboni

The Dose Makes the Poison M. Alice Ottoboni, 1997-05-15 The Dose Makes the Poison A Plain-Language Guide to Toxicology Second Edition M. Alice Ottoboni Increasing media coverage of reports on the effects of chemicals, new recognition within government and industry of the need to protect against exposure, and other current issues are elevating the public's concern about the health effects of synthetic chemicals in our environment. Unfortunately, much of this concern is based more on sensational news reports and half-truths than on scientific facts. This second edition of a widely read and highly acclaimed work reviews and explains the facts of chemical dangers in a clear and understandable manner. It objectively discusses the factors determining whether chemicals in our air, food, and water are harmful or harmless, and puts the dose - response relationship of chemicals in proper perspective. Effects of chemicals encountered at home and at work are presented in layman's language to assure understanding without having to turn to other references. Thoughtful discussions of controversial issues help you to understand news media reports on toxicology, avoid the half-truths that lead to poison paranoia, and make informed judgments about our use and control of chemicals. Extensively revised, the second edition is also reorganized to expedite access to specific information. All experimental and analytical methods are in one section, and references to the origins of toxicology and regulation of chemicals are in another separate section to improve ease of reading. In addition, coverage of subjects such as public distrust of science, epidemiology, reproductive toxicology, and risk have been expanded to provide a better understanding of the relationship of toxicology to current environmental problems. All aspects of exposure

and its effects are reviewed, including * How chemicals cause harm--toxicity, sensitization, corrosiveness, irritation, radioactivity, and other properties * Routes of exposure--skin, inhalation, oral, and combinations * Factors that influence degree of toxicity--species, age, sex, nutrition, state of health, presence of other chemicals, adaptation, and possibly, light * Chemicals that cause cancer and birth defects Chapters on toxicity of chemicals address no-effect levels and thresholds, margins of safety, and bioaccumulation. You'll see how the effects of chemicals are studied and how health problems are traced to environmental causes. Also clarified are differences between actual risk and perceived risk of various chemicals. With the media presenting us daily with new findings on chemical risks, this book provides a welcome antidote to the confusion. The Dose Makes the Poison is an easy-to-read review of toxicology that has become required reading for scientists and managers throughout industry; public health officials; environmental scientists; industrial hygienists; hazardous waste workers ; and anyone who wishes to improve his or her understanding of toxic chemicals without taking the time to go back to school.

The Dose Makes the Poison Patricia Frank,M. Alice Ottoboni,2011-03-22 This new edition of a widely-read and highly-acclaimed book broadens the scope of its predecessors from a heavy focus on industrial chemicals as toxicants to include drugs, food additives, cosmetics and other types of compounds that people are exposed to daily. Also new to the 3rd edition are newer issues-of-the-day such as nanoparticulate toxicants, second hand smoke, food contamination, lead in toys, and others. As such, the book provides the basics of toxicology in easy-to-understand language as well as a fuller understanding of the daily insults to which our bodies are subjected.

The Right Dose Patricia Hausman,1989 From vitamin A to zinc, THE RIGHT DOSE will help you make the right choices for you and your family. Medical researchers across the country are making dramatic new discoveries about the dangers and benefits of vitamin and mineral supplements. Now, a nationally respected nutritionist offers a comprehensive, step-by-step guide that puts all the latest information at your fingertips, including: * her recommendations for the right, safe dosage of all vitamin and mineral supplements * potential harmful side effects -- how to recognize them and what to do about them * how certain supplements can interfere with the results of medical tests * the best food sources of all vitamins and minerals * dozens of healthy recipes to help you get your vitamins and minerals naturally Useful information not only about food sources for nutrients but also about nutrient deficiencies and the hazards of overdosing. -- The New York Times

Dose Finding in Drug Development Naitee Ting,2006-12-29 If you have ever wondered when visiting the pharmacy how the dosage of your prescription is determined this book will answer your questions. Dosing information on drug labels is based on discussion between the pharmaceutical manufacturer and the drug regulatory agency, and the label is a summary of results obtained from many scientific experiments. The book introduces the drug development process, the design and the analysis of clinical trials. Many of the discussions are based on applications of statistical methods in the design and analysis of dose response studies. Important procedural steps from a pharmaceutical industry perspective are also examined.

A Review of the Dose Reconstruction Program of the Defense Threat Reduction Agency
National Research Council,Division on Earth and Life Studies,Board on Radiation Effects

Research, Committee to Review the Dose Reconstruction Program of the Defense Threat Reduction Agency, 2003-09-21 From 1945 through 1962, the US atmospheric nuclear weapons testing program involved hundreds of thousands of military and civilian personnel, and some of them were exposed to ionizing radiation. Veterans' groups have since been concerned that their members' health was affected by radiation exposure associated with participation in nuclear tests and have pressured Congress for disability compensation. Several pieces of legislation have been passed to compensate both military and civilian personnel for such health effects. Veterans' concerns about the accuracy of reconstructed doses prompted Congress to have the General Accounting Office (GAO) review the dose reconstruction program used to estimate exposure. The GAO study concluded that dose reconstruction is a valid method of estimating radiation dose and could be used as the basis of compensation. It also recommended an independent review of the dose reconstruction program. The result of that recommendation was a congressional mandate that the Defense Threat Reduction Agency (DTRA), a part of the Department of Defense, ask the National Research Council to conduct an independent review of the dose reconstruction program. In response to that request, the National Research Council established the Committee to Review the Dose Reconstruction Program of the Defense Threat Reduction Agency in the Board on Radiation Effects Research (BRER). The committee randomly selected sample records of doses that had been reconstructed by DTRA and carefully evaluated them. The committee's report describes its findings and provides responses to many of the questions that have been raised by the veterans.

It All Depends on the Dose Ole Peter Grell, Andrew Cunningham, Jon

Arrizabalaga,2018-05-11 This is the first volume to take a broad historical sweep of the close relation between medicines and poisons in the Western tradition, and their interconnectedness. They are like two ends of a spectrum, for the same natural material can be medicine or poison, depending on the dose, and poisons can be transformed into medicines, while medicines can turn out to be poisons. The book looks at important moments in the history of the relationship between poisons and medicines in European history, from Roman times, with the Greek physician Galen, through the Renaissance and the maverick physician Paracelsus, to the present, when poisons are actively being turned into beneficial medicines. Chapter 5 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution-Non Commercial-No Derivatives (CC-BY-NC-ND) 4.0 license.

Drug Truths and the Dose Makes the Poison John L. LaMattina,Patricia Frank,M. Alice Ottoboni,2011-03-23 Together, these books offer affordable and accessible introductions and insights to two of the most important areas of daily life -- drugs / medications and toxic risk. *Drug Truths* gives an insider's account of the pharmaceutical industry and answers the questions about the process and costs of pharmaceutical R & D in a compelling narrative focused on the discovery and development of important new medicines. *The Dose Makes the Poison* uses straightforward language and clear examples (like food additives, second-hand smoke, and lead-contaminated toys) to explain the basics and practice of toxicology.

The Dose as a Variable Therapeutic Factor Augustine Marcus Fernandez de Ybarra,1904

The Dose—Response Relation in Pharmacology Ronald J. Tallarida,Leonard S.

Jacob,2012-12-06 This book is designed to meet the modern need for a better

understanding of drug-receptor interaction as applied to the gathering and interpretation of dose-response data. It is an introduction suitable for any student who has had a first course in pharmacology. This book is an extension of the pharmacology course into one area of what is now known as molecular pharmacology. The material included is an outgrowth of courses that we have given in recent years to health-science students in several professional schools and universities. The area of drug-receptor theory, although just a part of molecular pharmacology, is already very broad. One major line of investigation is concerned with the chemical and structural nature of specific receptors and with efforts to isolate specific receptors. Another line of investigation is concerned with the kinetic theories of drug-receptor interaction, the effort there being to provide a general theory that is applicable to wide classes of drugs. We have chosen to deal with the latter. There are several reasons for our choice of topics. First, the information is very practical; that is, it permits one to use properly and consistently terms such as efficacy, partial agonist, pure antagonist, potency, $pA_{2'}$ etc., when describing drug action. Second, many students fail to appreciate the differences in and the limitations of the various theories, beginning with the classical theory of A. J. Clark, on up to the very recent allosteric theories.

Estimation of the Dosage Mortality Relationship when the Dose is Subject to Error

Kenneth David Cann Haley, Stanford University. Applied Mathematics and Statistics Laboratory, 1952

The Lethal Dose Jennifer Daniels, 2016-02-04 This is a riveting book for anyone who wants to know how safe their medical care really is. If you have been harmed or unimproved by medical therapies, you will be enlightened and relieved by the

straightforward answers in this book. Dr Daniels clearly explains how Board Certified Doctors who are following the Standard of Care, Murdered 759,766 patients in the United States in 2011. She reveals her observation of medical harm during her years of medical education, Family Practice Residency Training and Community Medicine practice. Dr Daniels' refusal to participate in the murder of patients was the basis of her evolving interest in Alternative Therapies. Dr Daniels' triumph in embracing the concept of Holistic Health led her to focus on reducing drug violence as part of improving the health of the community where her medical practice was located. This is a real eye opener. Her medical practice was jeopardized when she foiled a 30million dollar bank heist. You will have to read the book to get the rest of that story

The Optimal Dose MD Judson Somerville, 2018-10-24 This amazing book Dr. Somerville describes how Vitamin D3 at optimal dosing saved his life and made a tremendous difference in thousands of patients he was treating at the time. He explains how the current and past research on vitamin D3 was done at doses too low to actually show the full effects it has on our bodies and the effects it has at optimal doses.

Epidemiology and Prevention of Vaccine-Preventable Diseases, 13th Edition
E-Book Jennifer Hamborsky, MPH, MCHES, Andrew Kroger, MD, MPH, Charles (Skip) Wolfe, 2015-10-19 The Public Health Foundation (PHF) in partnership with the Centers for Disease Control and Prevention (CDC) is pleased to announce the availability of *Epidemiology and Prevention of Vaccine-Preventable Diseases, 13th Edition* or “The Pink Book” E-Book. This resource provides the most current, comprehensive, and credible information on vaccine-preventable diseases, and contains updated content on

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The Dose—Response Relation in Pharmacology Ronald Tallarida, Leonard S.

Jacob, 1979-10-02 This book is designed to meet the modern need for a better understanding of drug-receptor interaction as applied to the gathering and interpretation of dose-response data. It is an introduction suitable for any student who has had a first course in pharmacology. This book is an extension of the pharmacology course into one area of what is now known as molecular pharmacology. The material included is an outgrowth of courses that we have given in recent years to health-science students in several professional schools and universities. The area of drug-receptor theory, although just a part of molecular pharmacology, is already very broad. One major line of investigation is concerned with the chemical and structural nature of specific receptors and with efforts to isolate specific receptors. Another line of investigation is concerned with the kinetic theories of drug-receptor interaction, the effort there being to provide a general theory that is applicable to wide classes of drugs. We have chosen to deal with the latter. There are

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It All Depends on the Dose Ole Peter Grell, Andrew Cunningham, Jon Arrizabalaga, 2018-05-11 This is the first volume to take a broad historical sweep of the close relation between medicines and poisons in the Western tradition, and their interconnectedness. They are like two ends of a spectrum, for the same natural material can be medicine or poison, depending on the dose, and poisons can be transformed into medicines, while medicines can turn out to be poisons. The book looks at important moments in the history of the relationship between poisons and medicines in European history, from Roman times, with the Greek physician Galen, through the Renaissance and the maverick physician Paracelsus, to the present, when poisons are actively being turned into beneficial medicines.

The Dose Age Chris Raine, 2019-07-02 Chris Raine suspects we can use drugs better, and he's willing to put his body on the line to check test his theory. From antidepressants to party drugs to performance enhancers, could we be using drugs better, smarter and more effectively? As the founder and director of Hello Sunday Morning, a movement aimed at creating a better drinking culture that's touched over 120k people, Chris will draw on his own personal and professional experience to explore how society at large interacts with drugs of all kinds, what experts around the world are doing to change or improve that

relationship, and what our relationship with drugs is going to look like in the future. His theories will be tested against the best minds across every field that interacts with drug therapy - he's hoping to talk to experts such as statistician Nate Silva, brain mapping expert Adrian Cheng, philosopher AC Grayling and musician and recovered addict Paul Kelly. The Dose Age will be the definitive book about the future of drugs in our modern age - are we, and should we, be heading into the dose age?

A Small Dose of Toxicology Steven G. Gilbert, 2004-02-18 Everyday, we come into contact with many relatively harmless substances that could, at certain concentrations, be toxic. This applies not only to obvious candidates such as asbestos, lead, and gasoline, but also to compounds such as caffeine and headache tablets. While the field of toxicology has numerous texts devoted to aspects of biology, chemis

The Secondary Particle Contribution to the Dose from Monoenergetic Proton Beams and, 1964

Dose-book and Manual of Prescription-writing Edward Quin Thornton, 1895

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web the diagram below is a schematic of the prius powertrain with detail in particular i have grossly simplified the way in which the internal combustion engine ice drives the planet gears in the power split device psd and the way that the ring gear is connected to the silent chain sprocket and motor generator 2 mg2 it is *toyota power split device hybrid auto* - Dec 05 2022 web the power split device can operate the vehicle with electric motor power and the ic engine separately or can also combine the power from both sources it also

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understand that initially mg2 may power the car with the ice stopped this means that mg1 is turning and because it is a permanent magnet device it should be generating power

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web feb 10 2015 i ran across this page yesterday and was fascinated by the inner workings of the power split device psd i also noticed that there was enough information there for me to put together an animation and working interactive demo of the psd with controls for input from ice and mg2 so i spent a

couple hours putting it together in maya
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introduction many resources and threads exist that describe the prius power split device they correctly describe how rpms can be calculated and how torque is split but i did not find any that would correctly describe how the power is split the solution seems easy at first power is rpm multiplied by torque

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web the power split device the prius transmission includes a special gear set that toyota call the power split device psd this is an epicyclic or planetary gear similar to those used in automatic transmissions

however its use in the prius is very different as i hope to explain

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interesting read on the power split device

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web apr 10 2008 this diagram makes a very nice demonstration about how the mg1 goes from thru 0 at about 65 mph per this diagram to it is a very

gradual motion if one is watching the speed of the car and that transition thru 0 should not be stressing the gear components imo in normal operation

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