

Statistics In Clinical Vaccine Trials

Statistics in Clinical and Observational Vaccine Studies
Statistics in Clinical Vaccine Trials
Design and Analysis of Vaccine Studies
Research Strategies for Assessing Adverse Events Associated with Vaccines
Ethics
Dumping
The Vaccine Book
Field Trials of Health Interventions
Sharing Clinical Trial Data
Hot Topics in Infection and Immunity in Children
Small Clinical Trials
Vaccines
Malaria Control and Elimination
Anti/Vax
The Childhood Immunization Schedule and Safety
Sequential Experimentation in Clinical Trials
The Children's Vaccine Initiative
Vaccinology and Methods in Vaccine Research
Lesser Harms
Handbook for Good Clinical Research Practice (GCP)
The Evaluation of Surrogate Endpoints
The Belmont Report
HIV Vaccines and Cure
Clinical Trials in Vulnerable Populations
Vaccine Development
The Vaccine Race
Vaccine
Vaccinology
Pediatric Clinical Pharmacology
Vaccines for Biodefense and Emerging and Neglected Diseases
AIDS Bibliography
NIAID AIDS Agenda
International Seminar On Nuclear War And Planetary Emergencies - 30th Session
Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 2017: Department of Health and Human Services; Corporation for National and Community Service; Substance Abuse and Mental Health Services Administration; Department of Labor
Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 2006
International Seminar on Nuclear War and Planetary Emergencies
The Grand Challenge for the Future
Task Force on Safer Childhood Vaccines
Tumor Immunology and Cancer Vaccines
Cancer Vaccines and Tumor Immunity
WHO Evidence Considerations for Vaccine Policy Development for Tuberculosis
Vaccines Intended for Adults and Adolescents
Jozef Nauta
Jozef Nauta M. Elizabeth Halloran
Doris Schroeder
Barry R. Bloom
Peter G. Smith
Institute of Medicine
Andrew J. Pollard
Institute of Medicine
Joseph Domachowske
Frédéric Arie
Bernice L. Hausman
Institute of Medicine
Jay Bartroff
Institute of Medicine
Rebecca Ashfield
Sydney A. Halpern
World Health Organization
Geert Molenberghs
United States. National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research
Linqi Zhang
Milica Prostran
A Krishna Prasad
Meredith Wadman
Arthur Allen
Gregg N. Milligan
Hanns Jörg W. Seyberth
Alan D.T. Barrett
National Institute of Allergy and Infectious Diseases (U.S.)
Richard C Ragaini
United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Labor, Health and Human Services, Education, and Related Agencies
United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Labor, Health and Human Services,

Education, and Related Agencies Richard C. Ragaini Stefan H.E. Kaufmann Samir Khleif
Rimas Orentas World Health Organization

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Vaccines Cancer Vaccines and Tumor Immunity WHO Evidence Considerations for
Vaccine Policy Development for Tuberculosis Vaccines Intended for Adults and
Adolescents Jozef Nauta Jozef Nauta M. Elizabeth Halloran Doris Schroeder Barry R.
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Subjects of Biomedical and Behavioral Research Linqi Zhang Milica Prostran A Krishna
Prasad Meredith Wadman Arthur Allen Gregg N. Milligan Hannsjörg W. Seyberth Alan D.T.
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Organization

this book offers an overview of the statistical methods used in clinical and observational vaccine studies pursuing a practical rather than theoretical approach it presents a range of real world examples with sas codes making the application of the methods straightforward this revised edition has been significantly expanded to reflect the current interest in this area it opens with two introductory chapters on the immunology of vaccines to provide readers with the necessary background knowledge it then continues with an in depth exploration of the analysis of immunogenicity data discussed are amongst others maximum likelihood estimation for censored antibody titers ancova for antibody values analysis of data of equivalence and non inferiority immunogenicity studies other topics covered include fitting protection curves to data from vaccine efficacy studies and the analysis of vaccine safety data in addition the book features four new chapters on vaccine field studies an introductory one one on randomized vaccine efficacy studies one on observational vaccine effectiveness studies and one on the meta analysis of vaccine efficacy studies the book offers useful insights for statisticians and epidemiologists working in the pharmaceutical industry or at vaccines institutes as well as graduate students interested in pharmaceutical statistics

this monograph offers well founded training and expertise on the statistical analysis of data from clinical vaccine trials i e immunogenicity and vaccine field efficacy studies the book s scope is practical rather than theoretical it opens with two introductory chapters on the immunology of vaccines to provide readers with the necessary background knowledge it then continues with an in depth exploration of the statistical methodology many real life examples and sas codes are presented making application of the methods straightforward topics discussed include maximum likelihood estimation for censored antibody titers ancova for antibody values analysis of equivalence and non inferiority immunogenicity trial data analysis of data from vaccine field efficacy trials including data from studies with recurrent infection data fitting protection curves to data of challenge or field efficacy studies and the analysis of vaccine safety data

as well as being a reference for the design analysis and interpretation of vaccine studies the text covers all design and analysis stages from vaccine development to post licensure surveillance presenting likelihood frequentists and bayesian approaches

this open access book provides original up to date case studies of ethics dumping that were largely facilitated by loopholes in the ethics governance of low and middle income countries it is instructive even to experienced researchers since it provides a voice to vulnerable populations from the fore mentioned countries ensuring the ethical conduct of north south collaborations in research is a process fraught with difficulties the background

conditions under which such collaborations take place include extreme differentials in available income and power as well as a past history of colonialism while differences in culture can add a new layer of complications in this context up to date case studies of unethical conduct are essential for research ethics training

the vaccine book second edition provides comprehensive information on the current and future state of vaccines it reveals the scientific opportunities and potential impact of vaccines including economic and ethical challenges problems encountered when producing vaccines how clinical vaccine trials are designed and how to introduce vaccines into widespread use although vaccines are now available for many diseases there are still challenges ahead for major diseases such as aids tuberculosis and malaria this book is designed for students researchers public health officials and all others interested in increasing their understanding of vaccines it answers common questions regarding the use of vaccines in the context of a rapidly expanding anti vaccine environment this new edition is completely updated and revised with new and unique topics including new vaccines problems of declining immunization rates trust in vaccines the vaccine hesitancy and the social value of vaccines for the community vs the individual child s risk provides insights into diseases that could be prevented along with the challenges facing research scientists in the world of vaccines gives new ideas about future vaccines and concepts introduces new vaccines and concepts gives ideas about challenges facing public and private industrial investors in the vaccine area discusses the problem of declining immunization rates and vaccine hesitancy

this is an open access title available under the terms of a cc by nc 4 0 international licence it is free to read at oxford scholarship online and offered as a free pdf download from oup and selected open access locations before new interventions are released into disease control programmes it is essential that they are carefully evaluated in field trials these may be complex and expensive undertakings requiring the follow up of hundreds or thousands of individuals often for long periods descriptions of the detailed procedures and methods used in the trials that have been conducted have rarely been published a consequence of this individuals planning such trials have few guidelines available and little access to knowledge accumulated previously other than their own in this manual practical issues in trial design and conduct are discussed fully and in sufficient detail that field trials of health interventions may be used as a toolbox by field investigators it has been compiled by an international group of over 30 authors with direct experience in the design conduct and analysis of field trials in low and middle income countries and is based on their accumulated knowledge and experience available as an open access book via oxford medicine online this new edition is a comprehensive revision incorporating the new

developments that have taken place in recent years with respect to trials including seven new chapters on subjects ranging from trial governance and preliminary studies to pilot testing

data sharing can accelerate new discoveries by avoiding duplicative trials stimulating new ideas for research and enabling the maximal scientific knowledge and benefits to be gained from the efforts of clinical trial participants and investigators at the same time sharing clinical trial data presents risks burdens and challenges these include the need to protect the privacy and honor the consent of clinical trial participants safeguard the legitimate economic interests of sponsors and guard against invalid secondary analyses which could undermine trust in clinical trials or otherwise harm public health sharing clinical trial data presents activities and strategies for the responsible sharing of clinical trial data with the goal of increasing scientific knowledge to lead to better therapies for patients this book identifies guiding principles and makes recommendations to maximize the benefits and minimize risks this report offers guidance on the types of clinical trial data available at different points in the process the points in the process at which each type of data should be shared methods for sharing data what groups should have access to data and future knowledge and infrastructure needs responsible sharing of clinical trial data will allow other investigators to replicate published findings and carry out additional analyses strengthen the evidence base for regulatory and clinical decisions and increase the scientific knowledge gained from investments by the funders of clinical trials the recommendations of sharing clinical trial data will be useful both now and well into the future as improved sharing of data leads to a stronger evidence base for treatment this book will be of interest to stakeholders across the spectrum of research from funders to researchers to journals to physicians and ultimately to patients

hot topics in infection and immunity in children brings together leading experts in the field to provide a current and authoritative view concerning the hottest topics of concern to clinicians caring for children with infections and research scientists working in the areas of infectious disease immunology microbiology and public health the book is based on a collection of manuscripts from a faculty of authors of international standing who contributed to a course in paediatric infection and immunity in oxford uk in june 2003

clinical trials are used to elucidate the most appropriate preventive diagnostic or treatment options for individuals with a given medical condition perhaps the most essential feature of a clinical trial is that it aims to use results based on a limited sample of research participants to see if the intervention is safe and effective or if it is comparable to a comparison treatment sample size is a crucial component of any clinical trial a trial with a

small number of research participants is more prone to variability and carries a considerable risk of failing to demonstrate the effectiveness of a given intervention when one really is present this may occur in phase i safety and pharmacologic profiles ii pilot efficacy evaluation and iii extensive assessment of safety and efficacy trials although phase i and ii studies may have smaller sample sizes they usually have adequate statistical power which is the committee's definition of a large trial sometimes a trial with eight participants may have adequate statistical power statistical power being the probability of rejecting the null hypothesis when the hypothesis is false small clinical trials assesses the current methodologies and the appropriate situations for the conduct of clinical trials with small sample sizes this report assesses the published literature on various strategies such as 1 meta analysis to combine disparate information from several studies including bayesian techniques as in the confidence profile method and 2 other alternatives such as assessing therapeutic results in a single treated population e g astronauts by sequentially measuring whether the intervention is falling above or below a preestablished probability outcome range and meeting predesigned specifications as opposed to incremental improvement

this book is designed to provide easy to read and basic information about vaccines for those undertaking a vaccine course or for medical providers seeking to improve their skills written by expert medical educators in the areas of infectious diseases medical microbiology and pediatrics this book begins by establishing the fundamentals of vaccines such as what constitutes a vaccine how they are manufactured and composed how they are tested for safety and efficacy and how vaccine recommendations are developed and conveyed to health care providers and their patients the book then explains the composition safety profile effectiveness and current recommendations for use of every available vaccine alphabetized by infection the concluding section illuminates practical concerns every vaccinating clinician experiences including vaccine confidence and hesitancy misconceptions and patient communication vaccines a clinical overview and practical guide is an excellent learning tool for all students and providers administering vaccines to patients including infectious disease specialists and other internal medicine subspecialists pediatricians geriatricians as well as all other primary care physicians nurse practitioners physician's assistants and nurses

this detailed book serves to provide a global overview of the goals rationale and scientific basis for malaria control and elimination as well as tools methods and strategies to that end opening with a section on malaria epidemiology the volume continues by covering tools that are critical to malaria management anti malarial drugs and resistance to these drugs vaccination approaches against malaria vector control as well as some perspective

on the future of the fight against this devastating disease written for the highly successful method in molecular biology series chapters in this collection feature the kind of practical hands on advice that leads to better results in the field authoritative and important malaria control and elimination is a valuable reference for all those involved in malaria control and elimination worldwide from students to health practitioners and field researchers seeking to make eradication a reality wherever possible

antivaxxers are crazy that is the perception we all gain from the media the internet celebrities and beyond writes bernice hausman in anti vax but we need to open our eyes and ears so that we can all have a better conversation about vaccine skepticism and its implications hausman argues that the heated debate about vaccinations and whether to get them or not is most often fueled by accusations and vilifications rather than careful attention to the real concerns of many americans she wants to set the record straight about vaccine skepticism and show how the issues and ideas that motivate it like suspicion of pharmaceutical companies or the belief that some illness is necessary to good health are commonplace in our society through anti vax hausman wants to engage public health officials the media and each of us in a public dialogue about the relation of individual bodily autonomy to the state s responsibility to safeguard citizens health we need to know more about the position of each side in this important stand off so that public decisions are made through understanding rather than stereotyped perceptions of scientifically illiterate antivaxxers or faceless bureaucrats hausman reveals that vaccine skepticism is in part a critique of medicalization and a warning about the dangers of modern medicine rather than a glib and gullible reaction to scaremongering and misunderstanding

vaccines are among the most safe and effective public health interventions to prevent serious disease and death because of the success of vaccines most americans today have no firsthand experience with such devastating illnesses as polio or diphtheria health care providers who vaccinate young children follow a schedule prepared by the u s advisory committee on immunization practices under the current schedule children younger than six may receive as many as 24 immunizations by their second birthday new vaccines undergo rigorous testing prior to receiving fda approval however like all medicines and medical interventions vaccines carry some risk driven largely by concerns about potential side effects there has been a shift in some parents attitudes toward the child immunization schedule the childhood immunization schedule and safety identifies research approaches methodologies and study designs that could address questions about the safety of the current schedule this report is the most comprehensive examination of the immunization schedule to date the iom authoring committee uncovered no evidence of major safety concerns associated with adherence to the

childhood immunization schedule should signals arise that there may be need for investigation however the report offers a framework for conducting safety research using existing or new data collection systems

sequential experimentation in clinical trials design and analysis is developed from decades of work in research groups statistical pedagogy and workshop participation different parts of the book can be used for short courses on clinical trials translational medical research and sequential experimentation the authors have successfully used the book to teach innovative clinical trial designs and statistical methods for statistics ph d students at stanford university there are additional online supplements for the book that include chapter specific exercises and information sequential experimentation in clinical trials design and analysis covers the much broader subject of sequential experimentation that includes group sequential and adaptive designs of phase ii and iii clinical trials which have attracted much attention in the past three decades in particular the broad scope of design and analysis problems in sequential experimentation clearly requires a wide range of statistical methods and models from nonlinear regression analysis experimental design dynamic programming survival analysis resampling and likelihood and bayesian inference the background material in these building blocks is summarized in chapter 2 and chapter 3 and certain sections in chapter 6 and chapter 7 besides group sequential tests and adaptive designs the book also introduces sequential change point detection methods in chapter 5 in connection with pharmacovigilance and public health surveillance together with dynamic programming and approximate dynamic programming in chapter 3 the book therefore covers all basic topics for a graduate course in sequential analysis designs

the children s vaccine initiative is an international endeavor to ensure that children throughout the world are immunized this book notes that one of the best opportunities to address the growing problem of immunization in the united states and to improve the health of children in developing countries lies in marshaling the vaccine development and production efforts in the united states and abroad the book contains information on the nature and status of vaccine development and production efforts in the united states and abroad and it recommends ways to enhance participation in the international children s vaccine initiative

vaccinology and methods in vaccine research is a combination of cutting edge methodologies experimental approaches and literature reviews the book covers all aspects of vaccine development including basic immunology focusing on the stimulation of adaptive immunity which is required for vaccine efficacy approaches to vaccine design and target validation vaccine biomanufacturer and clinical development existing

vaccinology resources are theoretical reference books whereas this book provides a practical handbook for use in the research lab and classroom by those working in vaccinology and training others in the field it is authored and edited by scientists actively engaged in vaccine research and development for day to day teaching methodological advice addresses how to design a vaccine for an emerging disease from a practical point of view with chapters written by scientists who are grappling with these questions provides new approaches to vaccine development including vaccine targeting and virus like particle vaccines gives up to date information and methodologies in use for vaccine adjuvants

research physicians face intractable dilemmas when they consider introducing new medical procedures innovations carry the promise of preventing or curing life threatening diseases but they can also lead to injury or even death how have clinical scientists made high stakes decisions about undertaking human tests of new medical treatments in lesser harms sydney halpern explores this issue as she examines vaccine trials in america during the early and mid twentieth century today s scientists follow federal guidelines for research on human subjects developed during the 1960s and 1970s but long before these government regulations medical investigators observed informal rules when conducting human research they insisted that the dangers of natural disease should outweigh the risks of a medical intervention and they struggled to accurately assess the relative hazards halpern explores this logic of risk in immunization controversies extending as far back as the eighteenth century then focusing on the period between 1930 and 1960 she shows how research physicians and their sponsors debated the moral quandaries involved in moving vaccine use from the laboratory to the clinic this probing work vividly describes the efforts of clinical investigators to balance the benefits and dangers of untested vaccines to respond to popular sentiment about medical hazards and to strategically present risk laden research to sponsors and the public concise and extremely well written a fascinating synthesis of sociology history and institutional theory samuel c blackman journal of the american medical association

covers the latest research on a sensitive and controversial topic in a professional and well researched manner provides practical outlook as well as model guidelines and software tools that should be of interest to people who use the software tools described and those who do not related title by co author geert molenbergh has sold more than 3500 copies world wide provides dual viewpoints from scientists in the industry as well as regulatory authorities

this book provides a comprehensive review of the major barriers to hiv cure and vaccine it

covers the fundamental virology and immunology leading to hiv transmission protection from infection and long term hiv persistence on antiretroviral therapy in addition strategies being tested to eliminate persistent hiv and the rational design of vaccines to induce protective immunity are covered this book also discusses the challenges related to the design of clinical trials for testing the safety and efficacy of these innovative approaches this book will provide a systematic overview and also discuss controversial issues for researchers in virology and immunology as well as practicing physicians and scientists in the pharmaceutical industry

this book clinical trials in vulnerable populations has 12 chapters divided into 4 sections minority patients women medically compromised patients and clinical trials contributing authors came from several countries from serbia to turkey the book was edited by professor milica prostran md ph d specialist in clinical pharmacology the potential reader is shown a modern approach to clinical trials in vulnerable populations from different points of view the chapters deal at length and clarity with their topics finally i believe that this book i edited and reviewed with dedication will capture the attention of many readers from medical students to practicing doctors and pharmacists all of whom must consider this very important field of medicine clinical trials in vulnerable patients

vaccine development is a complex and time consuming process that differs from the development of conventional pharmaceuticals primarily vaccines are intended for use in healthy individuals as a preventative measure requiring a long and rigorous process of research and many years of testing and development prior to clinical trials and regulatory approval the average time for the development of vaccines to clinical is 12 to 15 years vaccine development from concept to clinic is a detailed overview of the development of new vaccines covering the entire process and addresses all classes of vaccines from a processing development and regulatory viewpoint utilising successful case studies the book will provide insight to the issues scientists face when producing a vaccine the steps involved and will serve as an ideal reference tool regarding state of the art vaccine development this book is an ideal companion for any researchers working in vaccine discovery and development or with an interest in the field

a real jewel of science history brims with suspense and now forgotten catastrophe and intrigue wadman s smooth prose calmly spins a surpassingly complicated story into a real tour de force the new york times riveting the vaccine race invites comparison with rebecca skloot s 2007 the immortal life of henrietta lacks nature the epic and controversial story of a major breakthrough in cell biology that led to the conquest of rubella and other devastating diseases until the late 1960s tens of thousands of american children suffered

crippling birth defects if their mothers had been exposed to rubella popularly known as german measles while pregnant there was no vaccine and little understanding of how the disease devastated fetuses in june 1962 a young biologist in philadelphia using tissue extracted from an aborted fetus from sweden produced safe clean cells that allowed the creation of vaccines against rubella and other common childhood diseases two years later in the midst of a devastating german measles epidemic his colleague developed the vaccine that would one day wipe out homegrown rubella the rubella vaccine and others made with those fetal cells have protected more than 150 million people in the united states the vast majority of them preschoolers the new cells and the method of making them also led to vaccines that have protected billions of people around the world from polio rabies chicken pox measles hepatitis a shingles and adenovirus meredith wadman's masterful account recovers not only the science of this urgent race but also the political roadblocks that nearly stopped the scientists she describes the terrible dilemmas of pregnant women exposed to german measles and recounts testing on infants prisoners orphans and the intellectually disabled which was common in the era these events take place at the dawn of the battle over using human fetal tissue in research during the arrival of big commerce in campus labs and as huge changes take place in the laws and practices governing who owns research cells and the profits made from biological inventions it is also the story of yet one more unrecognized woman whose cells have been used to save countless lives with another frightening virus measles on the rise today no medical story could have more human drama impact or urgency than the vaccine race

a timely fair minded and crisply written account new york times book review vaccine juxtaposes the stories of brilliant scientists with the industry's struggle to produce safe effective and profitable vaccines it focuses on the role of military and medical authority in the introduction of vaccines and looks at why some parents have resisted this authority political and social intrigue have often accompanied vaccination from the divisive introduction of smallpox inoculation in colonial boston to the 9 000 lawsuits recently filed by parents convinced that vaccines caused their children's autism with narrative grace and investigative journalism arthur allen reveals a history illuminated by hope and shrouded by controversy and he sheds new light on changing notions of health risk and the common good arthur allen adroitly chronicles the development of the polio vaccine and many others describing the science and serendipity behind each breakthrough and breathing life into the researchers who achieved them henry i miller wall street journal allen's comprehensive often unexpected and intelligently told history illuminates the complexity of public health policy publishers weekly

vaccinology an essential guide outlines in a clear practical format the entire vaccine

development process from conceptualization and basic immunological principles through to clinical testing and licensing of vaccines with an outstanding introduction to the history and practice of vaccinology it also guides the reader through the basic science relating to host immune responses to pathogens covering the safety regulatory ethical and economic and geographical issues that drive vaccine development and trials it also presents vaccine delivery strategies novel vaccine platforms including experimental vaccines and pathogens antigen development and selection vaccine modelling and the development of vaccines against emerging pathogens and agents of bioterror there are also sections devoted to veterinary vaccines and associated regulatory processes vaccinology an essential guide is a perfect tool for designed for undergraduate and graduate microbiologists and immunologists as well as residents fellows and trainees of infectious disease and vaccinology it is also suitable for all those involved in designing and conducting clinical vaccine trials and is the ideal companion to the larger reference book vaccinology principles and practice

the objective of this volume is to give an overview of the present state of the art of pediatric clinical pharmacology including developmental physiology pediatric specific pathology special tools and methods for development of drugs for children assessment of efficacy toxicity long term safety etc as well as regulatory and ethical knowledge and skills in the future structural and educational changes have to lead back to a closer cooperation and interaction of pediatrics with clinical pharmacology and pharmacy

the last 20 years has seen a rapid increase in infectious diseases particularly those that are termed emerging diseases such as sars neglected diseases such as malaria and those that are deemed biothreats such as anthrax it is well recognized that the most effective modality for preventing infectious diseases is vaccination this book provides researchers with a better understanding of what is currently known about these diseases including whether there is a vaccine available or under development it also informs readers of the key issues in development of a vaccine for each disease provides a comprehensive treatise of the agents that are responsible for emerging and neglected diseases and those that can be used as biothreats includes the processes such as the vaccine development pathway vaccine manufacturing and regulatory issues that are critical to the generation of these vaccines to the marketplace each chapter will include a map of the world showing where that particular disease is naturally found

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the vaccines most urgently needed are those against poverty related diseases such as tuberculosis malaria and hiv however there is a considerable gap between the development of a vaccine and the implementation as a useful measure for disease control major obstacles need to be overcome even after successful completion of the preclinical stage this book provides an important link between vaccine development and application under the particular conditions in developing countries the editors s h e kaufmann and p h lambert one from the field of basic research and the other an expert on the side of applied vaccinology have gathered contributions from specialists of both fields in an attempt to create a source of information that has thus far not been available

volume is divided into four sections allowing easy navigation for researchers and practicing physicians text includes clinical trials written by leaders in the field

cancer vaccines and tumor immunity offers a review of the basic scientific discoveries that have moved forward into clinical trials presented in the context of real world human research and experimentation these major scientific advances demonstrate how our understanding of immune activation t regulatory cells and autoimmunity will impact cancer vaccine design the authors also explain how vaccination in the context of bone marrow transplantation will open new avenues for clinical study in the future

this ecvp is a new technical product that aims to anticipate and collectively delineate the clinical trial observational and other data likely to be required by global and national policy makers and to do so when most valuable during development of the late stage clinical plan including the design of the pivotal licensure trial proactively generating this evidence as part of or in parallel to clinical development where feasible rather than reactively post licensure creates an opportunity to accelerate vaccine policy formulation adoption and impact particularly in Imics

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Lee Chew: A Deep Dive into Cantonese Sweet Treats

Lee chew (𩰫𩰫) are small, chewy, translucent sweet treats commonly found in Cantonese cuisine. Unlike Western gelatin-based sweets, lee chew's characteristic texture stems from a unique process involving starch, sugar, and often, other flavoring ingredients. This article explores the fascinating world of lee chew, from its ingredients and preparation to its variations and cultural significance.

I. Ingredients and Preparation: The Foundation of Lee Chew

The foundational ingredients of lee chew are starch and sugar. While tapioca starch is most common, other starches like potato starch or sweet potato starch can be used, subtly altering the final texture and flavor. The sugar, typically granulated white sugar, provides sweetness and aids in the setting process. Water is essential to create the slurry that will be cooked and ultimately form the chewy texture. The preparation involves a careful process of combining the starch and sugar with water. This mixture is then cooked over low heat, constantly stirred, to avoid lumps and ensure even cooking. The key to successful lee chew is in achieving the correct consistency – thick enough to hold its shape but not so thick that it becomes stiff and unchewable. The cooking process transforms the starch, creating that characteristic translucent and elastic texture. After cooking, the mixture is poured onto a lightly oiled surface to cool and set. Once cool, it's then cut into small, bite-sized pieces, typically small balls or cubes.

II. Flavor Variations: Beyond the Basics

While basic lee chew relies on the inherent sweetness of sugar, countless flavor variations exist, reflecting the creativity and culinary traditions of Cantonese cuisine. Common additions include: Fruit Purees: Mango, lychee, and pineapple purees are popular, adding natural sweetness and vibrant colors. Imagine a translucent, mango-flavored lee chew – a

delightful burst of tropical flavor in every bite. Coconut Milk: The addition of coconut milk lends a creamy richness and subtly sweet coconut flavor. Sesame Seeds: Toasted sesame seeds provide a nutty aroma and a pleasant textural contrast to the smooth chewiness. Herbal Infusions: Certain herbs and spices, such as pandan leaves, can infuse the lee chew with delicate aromatic flavors. Natural Colorings: Natural pigments from fruits and vegetables can add vibrant colors, making lee chew visually appealing as well as delicious.

III. Cultural Significance and Culinary Context

Lee chew holds a significant place in Cantonese culture, often featuring in festive occasions and desserts. Their small size and pleasing texture make them ideal for sharing and enjoying casually. They are frequently found in: Dim Sum Brunches: A small bowl of lee chew in a sweet, flavorful syrup might be included alongside other dim sum items. Sweet Soups: Lee chew are often added to sweet soups, contributing their unique chewy texture and sweetness to the overall culinary experience. Festival Celebrations: Specific flavors and shapes might be associated with particular festivals or celebrations, adding a cultural dimension to the treat.

IV. Homemade vs. Store-Bought: A Comparative Look

While many readily available store-bought options exist, making lee chew at home provides a more customizable and often more rewarding experience. Homemade lee chew allows for complete control over ingredients and flavor profiles, guaranteeing freshness and the ability to experiment with unique flavor combinations. However, the process demands patience and precision. Store-bought versions offer convenience but may contain additives and preservatives. The choice depends on individual preferences and time constraints.

V. Storage and Shelf Life

Proper storage is crucial to maintain the quality and prevent spoilage. Homemade lee chew, free from preservatives, should be stored in airtight containers in the refrigerator to maintain their texture and prevent them from drying out. They typically last for about 3-5 days under refrigeration. Store-bought lee chew, often containing preservatives, might

have a longer shelf life, as indicated on the packaging.

Summary

Lee chew are small but significant Cantonese sweet treats, characterized by their chewy texture and versatile flavor profiles. Their simple yet precise preparation, combined with the diverse range of flavor variations, contributes to their enduring popularity. From festive occasions to casual snacks, lee chew remain a beloved element of Cantonese culinary traditions, readily accessible both homemade and in stores.

Frequently Asked Questions (FAQs)

1. Are lee chew gluten-free? Yes, traditionally made lee chew are gluten-free as they are primarily made from starch and sugar. However, always check the ingredients list of store-bought versions to ensure there are no cross-contaminations or added gluten-containing ingredients. 2. Can I freeze lee chew? While freezing lee chew is possible, it may slightly affect the texture, making them less chewy. It's best to consume them fresh or within a few days of refrigeration. 3. What is the difference between lee chew and other chewy candies? Lee chew distinguishes itself through its use of starch as a primary ingredient, resulting in a different texture and a less intensely sweet taste compared to many Western gelatin-based candies. 4. Can I adjust the sweetness of lee chew? Yes, the amount of sugar used in the recipe can be adjusted to suit individual preference. Reducing the sugar slightly might result in a less intensely sweet but still enjoyable treat. 5. Where can I find lee chew? Lee chew can be found in many Asian grocery stores, especially those specializing in Cantonese cuisine. They may also be available online from specialized food retailers.

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