

Biopharmaceutical Supply Chains

Distribution, Regulatory, Systems
and Structural Changes Ahead

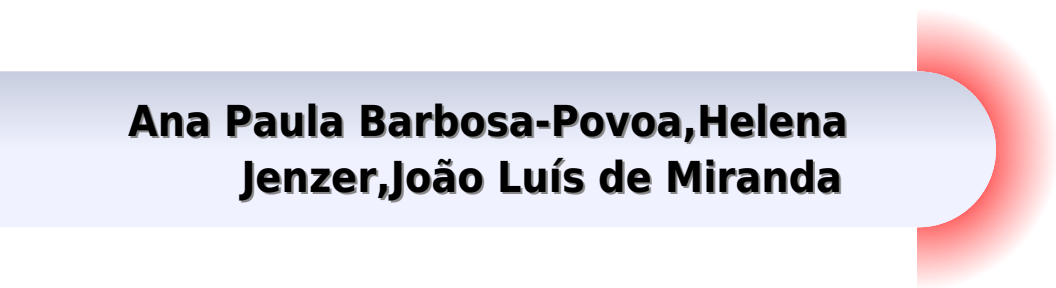
ROBERT HANDFIELD, Ph.D.



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Biopharmaceutical Supply Chains Distribution Regulatory Systems And Structural Changes Ahead

**Ana Paula Barbosa-Povoa, Helena
Jenzer, João Luís de Miranda**



Biopharmaceutical Supply Chains Distribution Regulatory Systems And Structural Changes Ahead:

Biopharmaceutical Supply Chains Robert Handfield, 2012-06-06 A comprehensive exploration of the massive changes in the biopharmaceutical supply chain that have occurred during the past 10 years and predicted future trends

Biopharmaceutical Supply Chains Distribution Regulatory Systems and Structural Changes Ahead documents the specific impacts of these changes for key players in the supply chain Based on interviews with industry professionals the book presents an overview of the key challenges and discusses how leading biopharmaceutical companies handle these challenges It exposes the underlying structures that support the biopharmaceutical supply chain focusing specifically on distribution the point at which manufacturers release a finished product to the time that it is administered and the complicated set of channels that exist between these two points This overarching view of the supply chain provides an important piece of intelligence that can inform business strategy for life sciences manufacturers and distributors and help them achieve success in this industry

Biopharmaceutical Supply Chains Robert Handfield, 2012-06-06 A comprehensive exploration of the massive changes in the biopharmaceutical supply chain that have occurred during the past 10 years and predicted future trends

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Becoming a Supply Chain Leader Sourya Datta, Sudip Das, Debasis Bagchi, 2021-10-28 The book explains how to emerge and grow as a supply chain leader and details supply chain and procurement processes and operational activities in real work scenarios across multiple supply chain verticals The book defines what an entry level supply chain professional must do to excel in various types of supply chain verticals such as IT electronics manufacturing pharmaceutical retail and consumer goods Apart from helping professionals understand vertical specific nuances this book helps them to set both short term goals for annual performance review and longer term career planning In addition for a mid or senior level supply chain professional the book offers ideas on ways to launch initiatives and demonstrate leadership to foster career growth It offers ideas about unlocking new values for the organization and creating a data driven decision support platform to gain financial efficiency for better management of CapEx and OpEx spend thus improving the bottom line The book includes a tool kit which includes operational data models financial models and presentation templates for creating and socializing proposals intended for cross functional teams and demonstrating supply chain leadership The book is divided into four major parts In Part I the book starts with an overview of key concepts in a manufacturing supply chain and procurement organization It describes current forms of modern global supply chain and corporate procurement organizations The objective of Part II is to provide a framework for a self directed supply chain manager to understand how a large organization evaluates the contribution of supply chain managers and where it expects them to create value To foster career growth as a supply chain professional the book identifies six key knowledge pillars for demonstrating supply chain mastery Technical and market knowledge of the end product and its

constituents Knowledge of internal product development and sustaining processes and supporting consumption data Health and market condition of the supplier Ability to create value Ability to build internal and external executive relationships with key influencers Ability to obtain best cost without compromising on quality and lead time Negotiating cost sourcing material and then the logistics of moving the raw material through multiple stages and finally finished materials across the globe are some of the key areas which need continuous improvement As a sentinel of efficiency removing any kind of wastage leads to immediate value creation and contributes to the margin by improving the bottom line In Part III the book reviews twelve such verticals namely printer medical IT energy automotive cloud dairy data management avionics biotech apparel and start up and the supply chain nuances through the lenses of the framework created in Part II In Part IV the book goes back to focus on the professional growth of an individual supply chain person in an industry agnostic way It provides examples of financial and operational efficiencies that a supply chain professional can create

An Industrial IoT Approach for Pharmaceutical Industry Growth Valentina Emilia Balas,Vijender Kumar Solanki,Raghvendra Kumar,2020-05-15 An Industrial IoT Approach for Pharmaceutical Industry Growth Volume Two uses an innovative approach to explore how the Internet of Things IoT and big data can improve approaches and make discoveries Rapid growth of the IoT has encouraged many companies in the manufacturing sector to make use of this technology to unlock its potential Using clear language and real world case studies this book discusses systems level from both a human factors point of view and the perspective of networking databases privacy and anti spoofing The wide variety in topics presented offers multiple perspectives on how to integrate the Internet of Things into pharmaceutical manufacturing This book represents a useful resource for researchers in pharmaceutical sciences information and communication technologies and those who specialize in healthcare and pharmacovigilance Emphasizes efficiency in pharmaceutical manufacturing through an IoT Big Data approach Explores cutting edge technologies through sensor enabled environments in the pharmaceutical industry Discusses system levels from both a human factors point of view and the perspective of networking databases privacy and anti spoofing

Transforming the Pharmaceutical Supply Chain Hedley Rees,2025-08-29 Effective and insightful solutions to the most pressing supply chain challenges facing pharmaceutical companies today In Transforming the Pharmaceutical Supply Chain veteran biotech supply chain strategist Hedley Rees delivers a reasoned and systematic solution to the most widespread and relevant challenges in the pharmaceutical supply chain The book explains the deeply rooted issues within pharma supply chains and the modus operandi of the industry while also discussing effective solutions to the underlying causes that led to widespread system breakdown The author applies modern methods of product development and commercial supply successfully used by leaders in the field He provides real world examples of ways to make the delivery of medicines to patients efficient and effective Readers will also find A clear explanation of the development manufacture and delivery of drugs to patients Comprehensive explorations of the issues and challenges to the current supply chain system paired with effective solutions Expert witness

accounts anecdotes case studies and examples of pharmaceutical supply chain difficulties and solutions Complete treatments of how to adapt supply chain techniques to a pharmaceutical era dominated by biologics and advanced therapies Perfect for pharmaceutical and biopharmaceutical professionals working in drug development Transforming the Pharmaceutical Supply Chain will also benefit industry professionals with a responsibility for the logistics commercial supply manufacturing regulation quality management finance and marketing of pharmaceuticals

Essays on Biopharmaceutical Supply Chains Marouen Ben Jebara, 2015 An emerging trend in the pharmaceutical industry is the high level of personalization of medicines that firms offer today Such medications are expected to account for 50% of the amount spent on drugs by 2018 In conjunction with the growth of this new class of medications firms are also continuing to serve markets for traditional or small molecule medications which are often standardized or mass customized for consumer markets Managing the diverse portfolio of medications can require different supply chain structures specifically with respect to distribution channels For example the prostate cancer vaccine involves a reverse flow of raw material in the form of patient blood cells from the hospital physician clinic to the pharmaceutical firm processing centers a characteristic that is often not seen with traditional medications that are dispensed at the pharmacy or hospital This has led to a new trend in the distribution channel practices for such medication i e supply chain disintermediation where the firm engages in a direct sales model which means that the medication is shipped directly to the patient or the administering facility e g the physician s clinic hospital instead of being distributed through the traditional channel of wholesalers In summary firms today have a choice of structuring their supply chains to have a traditional intermediated distribution channel a direct disintermediated distribution channel or combination thereof However little research exists that can guide managerial decisions with respect to the appropriate supply chain structure given the portfolio of the firm s medication offerings The firm s choices for product portfolio and supply chain structure for distribution channels raise a critical question of what is the most appropriate supply chain disintermediation strategy given the firm s product portfolio Therefore in this dissertation the research objective is to address this central question In addressing this research objective the dissertation is composed of four distinct essays The first essay is aimed at answering the above question conceptually It maps the evolution of the pharmaceutical product paradigm along a continuum of standardized mass customized mass personalized products as well as discusses the evolution of the supply chain structure in terms of disintermediation for pharmaceutical firms Drawing on literature in operations management in the areas of mass customization and supply chain disintermediation as well as industry practices the study presents a framework which identifies the appropriate supply chain structure intermediated vs disintermediated given the level of personalization of pharmaceutical products Additionally a critical characteristic of personalized biologics medicine is its time sensitive nature and consequent market mediation costs that make logistical design a critical issue To understand how management science tools can guide managerial decision making the second essay investigates this location decision problem for highly

personalized products under a total disintermediation strategy assumption Results based on the analysis of a case study are presented In addition to the time sensitivity and consequent market mediation costs that result from the short shelf life of personalized biologics products firms also face varying levels of demand uncertainty for such products making the disintermediation strategy decisions crucial Therefore the third essay aims to understand the behavior of the total market mediation costs given the level of demand variability and the firm s supply chain disintermediation strategy An evaluative study based on a scenario approach is presented The results from a scenario approach analysis and a large scale numerical study provide insights about the appropriate supply chain disintermediation strategy given the pharmaceutical firm s product characteristics The results shows the dominance of demand variability in shaping the total market mediation cost High demand variability favors intermediated distribution channels whereas disintermediation strategy is preferred when the shortage cost ratio is high The contrast analysis provides evidence of the area of distribution strategy indifference Finally recognizing that a pharmaceutical firm s choice regarding its product portfolio standardized mass customized mass personalized products and supply chain disintermediation strategy intermediated hybrid disintermediated has implications for its financial performance the fourth essay aims to empirically assess the financial performance consequences of the fit between the firm s product portfolio and its supply chain disintermediation strategy This essay empirically examines the relationship between disintermediation product portfolio strategy and financial performance The results show that supply chain disintermediation positively impacts the firms financial performance Additionally the alignment between product portfolio and supply chain disintermediation has positive effects on return on assets and gross margin This dissertation contributes to operations management literature in terms of conceptually analytically and empirically assessing how a firm s choices for product personalization and supply chain disintermediation individually and collectively influence its performance It aims to provide actionable guidelines that can help firms match their supply chain disintermediation strategy with their product portfolio characteristics

Pharmaceutical Supply Chains - Medicines Shortages

Ana Paula Barbosa-Povoa, Helena Jenzer, João Luís de Miranda, 2019-06-01 This book provides an insight of relevant case studies and updated practices in Pharmaceutical Supply Chains PharmSC while addressing the most relevant topics within the COST Action Medicines Shortages CA15105 The volume focuses on the most recent developments in the design planning and scheduling of PharmSC broadening from the suppliers selection to the impact on patients and healthcare systems addressing uncertainty and risk mitigation and computational issues It is directed at MSc PhD students and young researchers Post Docs in Pharmaceutics Pharmaceutical sciences Engineering fields Economics Management as well as pharmaceutical decision makers managers and practitioners and advanced readers demanding a fresh approach to decision making for PharmSC The contributed chapters are associated with the homonymous COST Training Schools TS and the book creates a better understanding of the Action Medicines Shortages challenges and opportunities

Stronger Food and Drug Regulatory

Systems Abroad National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Global Health, Committee on Stronger Food and Drug Regulatory Systems Abroad, 2020-03-09 Ensuring the safety of food and the quality and safety of medicines in a country is an important role of government made more complicated by global manufacturing and international trade By recent estimates unsafe food kills over 400 000 people a year a third of them children under 5 mostly in low and middle income countries every year poor quality medicines cause about 70 000 excess deaths from childhood pneumonia and roughly 8 500 to 20 000 malaria deaths in sub Saharan Africa alone The Federal Drug Administration FDA Office of Global Policy and Strategy is charged with improving capacity of the agency's foreign counterpart offices and increasing understanding of the importance of regulatory systems for public health development and trade At the request of the FDA this study sets out a strategy to support good quality wholesome food and safe effective medical products around the world Its goal is to build on the momentum for strengthening regulatory systems and to set a course for sustainability and continued progress The 2012 report Ensuring Safe Food and Medical Products Through Stronger Regulatory Systems Abroad outlined strategies to secure international supply chains emphasized capacity building and support for surveillance in low and middle income countries and explored ways to facilitate work sharing among food and medical product regulatory agencies This new study assess progress made and the current regulatory landscape

Rules and Guidance for Pharmaceutical Manufacturers and Distributors (Orange Guide) 2017 Great Britain. Medicines and Healthcare products Regulatory Agency, Medicines and Healthcare Products Regulatory Agency Staff, 2017-01-06 Familiarly known as the Orange Guide this title is an essential reference work for all those involved in the manufacture and distribution of medicines in Europe It is compiled by the UK drug regulatory body MHRA and brings together the European and UK guidance documents and information on legislation relating to the manufacture and distribution of medicines for human use It contains EU guidance on good manufacturing and good distribution practice along with relevant information on EU and UK legislation Changes in this new edition Revised Annex 15 The revision of Annex 15 takes into account changes to other sections of the EudraLex Volume 4 Part I relationship to Part II Annex 11 ICH Q8 Q9 Q10 and Q11 QWP guidance on process validation and changes in manufacturing technology Revised Annex 16 The GMP Guide Annex 16 has been revised to reflect the globalisation of the pharmaceutical supply chains and the introduction of new quality control strategies The revision has been carried out in the light of Directive 2011/62/EU amending Directive 2001/83/EC as regards the prevention of the entry into the legal supply chain of falsified medicinal products This version also implements ICH Q8 Q9 and Q10 documents and interpretation documents such as the manufacturing and importation authorisation MIA interpretation document as applicable Also some areas where the interpretation by Member States has not been consistent have been clarified This revised Annex came into operation 15 April 2016 The introduction of guidelines on setting health based exposure limits for use in risk identification in the manufacture of different medicinal products in shared facilities The

introduction of guidelines on the formalised risk assessment for ascertaining the appropriate GMP for excipients The addition of the Guidelines on principles of Good Distribution Practice of active substances for medicinal products for human use 2015 C 95 01 These guidelines provide stand alone guidance on Good Distribution Practice GDP for manufacturers importers and distributors of active substances for medicinal products for human use These guidelines should be followed as of 21 September 2015 The addition of the principles and guidelines of Good Manufacturing Practice GMP for active substances for medicinal products for human use including active substances intended for export Revisions to the UK Human Medicines Regulations 2012 MHRA GMP Data Integrity Definitions and Guidance for Industry is now included which sets out MHRA expectations for data integrity in good manufacturing practice GMP The Guidance complements existing EU GMP guidance and should be read in conjunction with national medicines legislation and the GMP standards published in Eudralex volume Global Regulatory Systems CenterWatch, Henrietta Ukwu, 2011-05

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