

Supply Chain In The Pharmaceutical Industry Strategic Influences And Supply Chain Responses

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RFID in Operations and Supply Chain Management

The Centers for Disease Control and Prevention (CDC) established the Strategic National Stockpile (SNS) with a focus on procuring and managing medical countermeasures (MCM) designed to address chemical, biological, radiological, and nuclear events and attacks by weapons of mass destruction. The stockpile is a repository of antibiotics, chemical antidotes, antitoxins, vaccines, antiviral drugs, and other medical materiel organized to respond to a spectrum of public health threats. Over time, the mission of the SNS has informally evolved to address other large-scale catastrophes, such as hurricanes or outbreaks of pandemic disease, and rare acute events, such as earthquakes or terror attacks. When disaster

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strikes, states can request deployment of SNS assets to augment resources available to state, local, tribal, or territorial public health agencies. CDC works with federal, state, and local health officials to identify and address their specific needs and, according to the stated mission of the SNS, ensure that the right resources reach the right place at the right time. On August 28, 2017, the National Academies of Sciences, Engineering, and Medicine convened a workshop to explore the current state of the global medical supply chain as it relates to SNS assets, and the role of communications in mitigating supply chain risks and in enhancing the resilience of MCM distribution efforts. This publication summarizes the presentations and discussions from the workshop.

Supply Chain Management and Advanced Planning

The Drug Supply Chain Security Act (DSCSA) was passed by Congress in the fall of 2013 and signed into law by President Barack Obama on November 27, 2013. The DSCSA was Title II of the Drug Quality and Security Act (DQSA). The law establishes new requirements that must be administered by the Food and Drug Administration (FDA). These requirements escalate over time from 2015 through 2023 in a series of stages. They include lot-based tracing of prescription pharmaceuticals from the manufacturer to the dispenser from 2015 through 2023 and serialization-based tracing after 2023. Drug manufacturers must apply unique identifiers on all prescription drug packages by November 2017 and repackagers, wholesale

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distributors and dispensers must begin to buy and sell products marked with those identifiers by November of 2018, 2019 and 2020 respectively. This book explains the DSCSA, section by section, so that drug manufacturers, repackagers, wholesale distributors, dispensers, contract partners (CMOs, CPOs, 3PLs), solution providers, consultants, law firms, regulators and students can understand the text, the meaning and the significance of the law. The book also includes more than two dozen of the most informative RxTrace essays about various aspects of the DSCSA. These essays, by Dirk Rodgers, help to expose the implications of the law and provide the context necessary to understand its full impact on companies in the supply chain. In these essays, the latest FDA guidance related to the DSCSA, as of book publication, are explained. Praise for The Drug Supply Chain Security Act Explained, Second Edition: "Dirk Rodgers has an unparalleled knowledge of federal track and trace legislation. This book is essential reading for anyone who wants to understand and benefit from coming changes to the pharmaceutical supply chain." -- Adam J. Fein, Ph.D., president, Pembroke Consulting, Inc., and CEO, Drug Channels Institute "Through RxTrace, Dirk Rodgers has provided stakeholders valuable insights on DSCSA. As DSCSA has evolved, his questions and opinions have helped all the stakeholders understand compliance. Dirk's new book brings years of wisdom from RxTrace and more together in one volume." -- Napoleon Monroe, Managing Director, New Directions Technology Consulting, LLC "As dispensers entrusted with the last encounter for patient safety, it is important to have a venue for discussion on DSCSA implementation challenges amongst trading

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partners. In this book, Dirk provides his experience as a resource for companies to use to create solutions." -- Chris Chandler, PharmD, VP of USDM Healthcare

Digital Strategies in the Pharmaceutical Industry

Creates a managerial compass for entering into the LIVING (Live, Intelligent, Velocity, Interactive, Networked, and Good) era of supply chain management and defines the imperative for creating Velocity and Visibility as the focal point for exploiting new digital, mobile, and cloud-based technologies. Written by well-known researchers in the field, this book addresses the changes that have occurred and are still unfolding at various organizations that are involved in building real-time supply chains. The authors draw on their experiences with multiple companies, along with references to the natural evolution of ecosystems throughout to help identify the "new rules of supply chain management." The LIVING principles associated with the rapid digitization and technology changes occurring in the global economy are discussed, along with the push to become more sustainable and responsive to customer needs. " Handfield and Linton reveal the "secret ingredient" to leveraging the power of a well managed supply chain. will revolutionize the way companies approach supply chain management." Frank Crespo, Vice President, Global Supply Network Division (CPO/Logistics/IoT Analytics), Caterpillar Inc. " The LIVING supply chain is a wake up call to any enterprise that depends on suppliers and contractors. Be fast, be nimble and make

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supply chain transparency the nucleus of your operations or become endangered.” Paul Massih, Vice President, BP PSCM “ a fascinating journey through the future of supply chain management a must read for every supplychain professional.” Yossi Sheffi, Professor, MIT Center for Transportation and Logistics “ a great “living” reading on how to bring supply chains to a powerful living state. The idea of Live-Interactive-Velocity-Intelligent-Networked-Good is the foundation of how supply chains can be agile, adaptive and aligned. of value to every supply chain executive and practitioner.” Hau Lee, Professor, Stanford University “ Successful businesses are those that support the success of their customers. This book captures the essence of our volatile, uncertain world and the opportunities that exist for the commercially astute, organizationally integrated business. More important, it offers insight to the recipe for 21st century operations and the management of complex supply ecosystems.” Tim Cummins, CEO, International Association of Commercial and Contract Management “ A LIVING supply chain requires a living company. The authors make a great case for how Flex is creating a living company to thrive in the living supply chain.” Tom Choi, Harold E. Fear on Eminent Scholar Chair of Purchasing Management, Arizona State University, Executive Director, CAPS Research “ To survive we need to have an adaptive supply chain and capability to both optimize and adapt simultaneously. This book begins to describe the ability to shift from functional silos to E2E Frictionless flow with the maturity to make E2E tradeoff decisions as a key enabler for success.” Wayne Rothman, Vice President, Enterprise Supply Chain Planning, Johnson & Johnson “A fantastic read and

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excellent stories from Dr. Handfield and Tom.” Joanne E. Wright, Vice President, IBM Supply Chain ROBERT HANDFIELD, PhD, is Bank of America University Distinguished Professor of Supply Chain Management and Director of the Supply Chain Resource Cooperative at North Carolina State University. The author of four books and over 150 journal articles, Dr. Handfield received his PhD in Opera

Applications of Contemporary Management Approaches in Supply Chains

Supply Chain Management in the Drug Industry

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,

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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.

Supply Chain in the Pharmaceutical Industry

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

Emergence of Pharmaceutical Industry Growth with Industrial IoT Approach

Future Challenges for Pharmaceutical Supply Chains

The present economic and social environment has given rise to new situations within which companies must operate. As a first example, the globalization of the

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economy and the need for performance has led companies to outsource and then to operate inside networks of enterprises such as supply chains or virtual enterprises. A second instance is related to environmental issues. The statement about the impact of industrial activities on the environment has led companies to revise processes, to save energy, to optimize transportation. A last example relates to knowledge. Knowledge is considered today to be one of the main assets of a company. How to capitalize, to manage, to reuse it for the benefit of the company is an important current issue. The three examples above have no direct links. However, each of them constitutes a challenge that companies have to face today. This book brings together the opinions of several leading researchers from all around the world. Together they try to develop new approaches and find answers to those challenges. Through the individual chapters of this book, the authors present their understanding of the different challenges, the concepts on which they are working, the approaches they are developing and the tools they propose. The book is composed of six parts; each one focuses on a specific theme and is subdivided into subtopics.

Managing Drug Supply

This book offers a comprehensive reference guide to operations research theory and applications in health care systems. It provides readers with all the necessary tools for solving health care problems. The respective chapters, written by

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prominent researchers, explain a wealth of both basic and advanced concepts of operations research for the management of operating rooms, intensive care units, supply chain, emergency medical service, human resources, lean health care, and procurement. To foster a better understanding, the chapters include relevant examples or case studies. Taken together, they form an excellent reference guide for researchers, lecturers and postgraduate students pursuing research on health care management problems. The book presents a dynamic snapshot on the field that is expected to stimulate new directions and stimulate new ideas and developments.

Handbook of Global Supply Chain Management

Everyone can impact the supply chain Supply Chain Management For Dummies helps you connect the dots between things like purchasing, logistics, and operations to see how the big picture is affected by seemingly isolated inefficiencies. Your business is a system, made of many moving parts that must synchronize to most efficiently meet the needs of your customers—and your shareholders. Interruptions in one area ripple throughout the entire operation, disrupting the careful coordination that makes businesses successful; that's where supply chain management (SCM) comes in. SCM means different things to different people, and many different models exist to meet the needs of different industries. This book focuses on the broadly-applicable Supply Chain Operations Reference

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(SCOR) Model: Plan, Source, Make, Deliver, Return, and Enable, to describe the basic techniques and key concepts that keep businesses running smoothly. Whether you're in sales, HR, or product development, the decisions you make every day can impact the supply chain. This book shows you how to factor broader impact into your decision making process based on your place in the system. Improve processes by determining your metrics Choose the right software and implement appropriate automation Evaluate and mitigate risks at all steps in the supply chain Help your business function as a system to more effectively meet customer needs We tend to think of the supply chain as suppliers, logistics, and warehousing—but it's so much more than that. Every single person in your organization, from the mailroom to the C-suite, can work to enhance or hinder the flow. Supply Chain Management For Dummies shows you what you need to know to make sure your impact leads to positive outcomes.

Pharmacy Management

Hospitals are large and complex organizations, yet they function largely without sophistication and technology inherent in other large businesses. In a time when well over half of all hospitals report negative operating margins, driving down costs through logistics and the supply chain is one of the most important yet overlooked areas for cost improvements. Hospitals and other healthcare systems spend more time and money on their supply chain than on physicians and doctors salaries

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combined. This is one of the first books to focus on the core business support services typically called “logistics” in healthcare. These include: Hospital materials management and the clinical supply chain Laundry and linen management eCommerce and technology in hospital logistics Accounting for medical supplies and inventories Inventory management Healthcare vendor collaboration Demand and supply planning This is an ideal text for healthcare administrators and functional business managers responsible for purchasing, receiving, supplier management, business planning, accounting, and hospital administration as well as for students of hospital business services.

Pharmaceutical Supply Chain Security

This book bridges the gap between practitioners of supply-chain management and pharmaceutical industry experts. It aims to help both these groups understand the different worlds they live in and how to jointly contribute to meaningful improvements in supply-chains within the globally important pharmaceutical sector. Scientific and technical staff must work closely with supply-chain practitioners and other relevant parties to help secure responsive, cost effective and risk mitigated supply chains to compete on a world stage. This should not wait until a drug has been registered, but should start as early as possible in the development process and before registration or clinical trials. The author suggests that CMC (chemistry manufacturing controls) drug development must reset the line

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of sight – from supply of drug to the clinic and gaining a registration, to the building of a patient value stream. Capable processes and suppliers, streamlined logistics, flexible plant and equipment, shorter cycle times, effective flow of information and reduced waste. All these factors can and should be addressed at the CMC development stage.

Supply Chain in the Pharmaceutical Industry

With a wealth of updated material, rewritten chapters and additional case studies, this fourth edition of a hugely important work gives a broad and up-to-date overview of the concepts underlying APS. Special emphasis is given to modeling supply chains and implementing APS successfully in industrial contexts. What's more, readers' understanding is enhanced by several case studies covering a wide range of industrial sectors. What makes this book so crucial is that Supply Chain Management, Enterprise Resources Planning (ERP), and Advanced Planning Systems (APS) are concepts that must be mastered in order to organize and optimize the flow of goods, materials, information and funds. Here, leading experts provide insights into the concepts underlying APS.

Biopharmaceutical Supply Chains

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"Millions of Americans are taking prescription drugs made in China and don't know it-- and pharmaceutical companies are not eager to tell them. This probing book examines the implications for the quality and availability of vital medicines for consumers"--Provided by publisher.

Threats to Pharmaceutical Supply Chains - Lessons Learned About Vulnerabilities from Hurricane Maria in Puerto Rico, Prioritizing the Pharmaceutical Industry Supply Chain as National Security Assets

This state-of-the-art Handbook provides a comprehensive understanding and assessment of the field of global supply chain management (GSCM). Editors John T. Mentzer, Matthew B. Myers, and Theodore P. Stank bring together a distinguished group of contributors to describe and critically examine the key perspectives guiding GSCM, taking stock of what we know (and do not know) about them.

The Indian Pharmaceutical Sector

In today's rapidly changing business environment, strong influence of globalization and information technologies drives practitioners and researchers of modern supply chain management, who are interested in applying different contemporary

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management paradigms and approaches, to supply chain process. This book intends to provide a guide to researchers, graduate students and practitioners by incorporating every aspect of management paradigms into overall supply chain functions such as procurement, warehousing, manufacturing, transportation and disposal. More specifically, this book aims to present recent approaches and ideas including experiences and applications in the field of supply chains, which may give a reference point and useful information for new research and to those allied, affiliated with and peripheral to the field of supply chains and its management.

Pharmaceutical Operations Management

The drug package that a community pharmacist hands to a patient, or a hospital pharmacist sends to a patient's bedside, or a physician administers in the medical office has reached the end of a complicated path. That path is called a supply or distribution chain. The upstream portion of the chain includes the journey of each active and inactive ingredient and their chemical components to the manufacturer that creates the finished drug product. The downstream chain, which this report addresses, includes the repackagers, wholesale distributors, associated storage and transport companies, and, finally, the dispenser. Dispensers include independent community or chain pharmacies, hospitals or other health care facilities, and physicians' offices. Usually the supply chain provides consumers with unadulterated prescription drugs. However, the chain is potentially vulnerable, and

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when it breaks, a dispenser might provide a counterfeit product containing no active ingredient, less-than-labeled dosage, or a dangerous substitution. The dispenser might also provide a mishandled or diverted drug that has become sub- or superpotent or has gone past its expiration. Usually the supply chain provides consumers with unadulterated prescription drugs. However, the chain is potentially vulnerable, and when it breaks, a dispenser might provide a counterfeit product containing no active ingredient, less-than-labeled dosage, or a dangerous substitution. The dispenser might also provide a mishandled or diverted drug that has become sub- or superpotent or has gone past its expiration. This book serves as a primer on pharmaceutical supply chain issues. It describes the chain from manufacturer¹³ to patient, including where it is vulnerable; summarizes current federal law, regulation, and FDA policies that Congress and the agency designed to protect the integrity of the final drug product, and indicates where those protections may falter; notes state-level and professional association activities; and discusses areas that Congress, FDA, and industry, health care, and patient stakeholders have suggested might be changed to increase the security of the pharmaceutical supply chain.

The LIVING Supply Chain

Emergence of Pharmaceutical Industry Growth with Industrial IoT Approach uses an innovative approach to explore how the Internet of Things (IoT) and big data can

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improve approaches, create efficiencies 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. Pharmaceutical manufacturing companies are no exception to this, as IoT has the potential to revolutionize aspects of the pharmaceutical manufacturing process, from drug discovery to manufacturing. Using clear, concise 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 of topics presented offers readers multiple perspectives on a how to integrate the Internet of Things into pharmaceutical manufacturing. Covers efficiency improvements of pharmaceutical manufacturing through IoT/Big Data approaches Explores cutting-edge technologies through sensor enabled environment in the pharmaceutical industry Discusses the systems level from both a human-factors point-of-view and the perspective of networking, databases, privacy and anti-spoofing

Supply Chain Management For Dummies

In September 2017, Hurricane Maria caused severe devastation to the U.S. territory of Puerto Rico, which manufacturers nearly 10 percent of all drugs consumed by Americans. Given the large concentration of pharmaceutical manufacturing based in Puerto Rico, the destruction wrought by a Category 4 hurricane created shortages for specific medical products, which affected the

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standard of health care in the United States during an influenza epidemic throughout late 2017 and early 2018. The Analytic Exchange Program's (AEP's) team examining "Threats to Pharmaceutical Supply Chains" examines this event as a case study for the risks and implications of pharmaceutical supply chain disruption. What happened after Hurricane Maria could shed light on other supply chain vulnerabilities, including the effect of cyber-attacks against manufacturing infrastructure, geopolitical disputes affecting drug supply chain components, and the growing reliance on third party drug manufacturing and logistics suppliers. Awareness of vulnerabilities is the first step toward protecting the pharmaceutical supply chain as a component of critical infrastructure vital to U.S. national security interests. Our team recommends mitigating future supply chain disruption by increasing private sector and government coordination. This AEP team proposes several specific solutions policymakers and corporate executives should consider, including providing incentives for greater cooperation, prioritizing the U.S. pharmaceutical industry as a unique critical infrastructure component and national security asset, creating an industry-wide list of medications deemed "critical", and streamlining the approval process for backup medications and alternative sources of temporary production. This compilation includes a reproduction of the 2019 Worldwide Threat Assessment of the U.S. Intelligence Community. Executive Summary * Hurricane Maria and the Impact on the US Pharmaceutical Supply Chain: A Case Study * How Hurricane Maria Affected Pharmaceutical Manufacturing in Puerto Rico * Bad to Worse: Hurricane Maria and the US Flu Outbreak *

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Explaining Why Hurricane Maria Had Such an Impact * Beyond Our Case Study: Examining Risks and Hypothetical Scenarios * How Did We Get Here? Examining the Risks * Risk-based Hypothetical Scenarios * Observations and Recommendations * Goal: Expedite and Reinforce Manufacturer Disclosure of Drug Shortages to the FDA * Goal: Prioritize Disruptions to the Supply Chain or Manufacturing of Critical Drugs * Goal: Improving Incentives for Manufacturers to Maintain Supply * Goal: Prioritizing the Pharmaceutical Industry Supply Chain as National Security Assets * Concluding Remarks * Citations

Advances in Production Management Systems: New Challenges, New Approaches

Scientific Essay from the year 2013 in the subject Business economics - Supply, Production, Logistics, grade: 1,0, San Diego State University, course: Global Supply Chain Management, language: English, abstract: The healthcare system of the U.S. is increasingly challenged by prescription drug shortages. But what are the root causes for this problem and how can these shortages be mitigated? Which role plays effective supply chain management in that setting? This paper addresses these questions and discusses possible approaches to strengthen the pharmaceutical supply chain in the U.S.

Pharmaceutical Supply Chains - Medicines Shortages

The adulteration and fraudulent manufacture of medicines is an old problem, vastly aggravated by modern manufacturing and trade. In the last decade, impotent antimicrobial drugs have compromised the treatment of many deadly diseases in poor countries. More recently, negligent production at a Massachusetts compounding pharmacy sickened hundreds of Americans. While the national drugs regulatory authority (hereafter, the regulatory authority) is responsible for the safety of a country's drug supply, no single country can entirely guarantee this today. The once common use of the term counterfeit to describe any drug that is not what it claims to be is at the heart of the argument. In a narrow, legal sense a counterfeit drug is one that infringes on a registered trademark. The lay meaning is much broader, including any drug made with intentional deceit. Some generic drug companies and civil society groups object to calling bad medicines counterfeit, seeing it as the deliberate conflation of public health and intellectual property concerns. Countering the Problem of Falsified and Substandard Drugs accepts the narrow meaning of counterfeit, and, because the nuances of trademark infringement must be dealt with by courts, case by case, the report does not discuss the problem of counterfeit medicines.

Countering the Problem of Falsified and Substandard Drugs

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Mobility is fundamental to economic and social activities such as commuting, manufacturing, or supplying energy. Each movement has an origin, a potential set of intermediate locations, a destination, and a nature which is linked with geographical attributes. Transport systems composed of infrastructures, modes and terminals are so embedded in the socio-economic life of individuals, institutions and corporations that they are often invisible to the consumer. This is paradoxical as the perceived invisibility of transportation is derived from its efficiency. Understanding how mobility is linked with geography is main the purpose of this book. The third edition of *The Geography of Transport Systems* has been revised and updated to provide an overview of the spatial aspects of transportation. This text provides greater discussion of security, energy, green logistics, as well as new and updated case studies, a revised content structure, and new figures. Each chapter covers a specific conceptual dimension including networks, modes, terminals, freight transportation, urban transportation and environmental impacts. A final chapter contains core methodologies linked with transport geography such as accessibility, spatial interactions, graph theory and Geographic Information Systems for transportation (GIS-T). This book provides a comprehensive and accessible introduction to the field, with a broad overview of its concepts, methods, and areas of application. The accompanying website for this text contains a useful additional material, including digital maps, PowerPoint slides, databases, and links to further reading and websites. The website can be accessed at: <http://people.hofstra.edu/geotrans> This text is an essential resource for

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undergraduates studying transport geography, as well as those interest in economic and urban geography, transport planning and engineering.

Causes of Supply Chain Disruptions

How to Conquer the Effective Frontier and Drive Improved Value in Global Operations Growth has slowed. Volatility has increased and the world is more global. Brands are defined by innovation and services. Supply chain excellence matters more than ever. It makes a difference incorporate performance. One cannot snap their fingers and deliver supply chain success. It happens over the course of many years. It is measured in inches not miles. In this book, the author evaluates the progress of over a hundred companies over the period of 2006-2013. Success drives value. The effective supply chain makes a difference in winning a war, saving a patient, and driving commerce; but it also makes a difference in a community having clean air, potable water, and a standard of living. Mistakes are hard to overcome. Supply Chain Metrics that Matter tells this story. The book links corporate financials to supply chain maturity. In the book, the author analyzes which metrics matter. The author Lora M. Cecere is a supply chain researcher as well as an authority in supply chain technology. She helps companies gain first mover advantage. In the book, Cecere provides concrete, actionable steps to align and balance the supply chain to drive value. The book explores the crossover between supply chain efficiency and financial growth with topics such as: Outlining

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the metrics that matter, the metrics that don't Progress in industry sub-segment in improving inventory, cash, productivity and margin The management techniques that improve performance Sharing insights on how metrics change as the supply chain matures The roadmap to improve performance. Today, supply chains are global and dynamic. They are rapidly evolving. Companies that constantly seek out new solutions and opportunities for improvement drive differentiation. In a market where growth is stalled and many companies are stuck in driving supply chain performance, this book provides a clear, concise framework for a more modern, effective supply chain.

The Drug Supply Chain Security Act Explained

Developed for the required management course in all pharmacy curricula, this text covers everything from personal management to operations management, managing people, accounting basics and finance, marketing, purchasing, value-added services, managing risks and more, in this text the top experts focus on the principles applicable to all practice settings and all aspects of pharmacy practice. Evidence based, theory is directly applied to cases and examples.

Impact of the Global Medical Supply Chain on SNS Operations and Communications

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The pharmaceutical and healthcare industry is hugely complex because it involves so many markets, products, processes and intermediaries. It is also heavily regulated, global, and used by everyone at some stage in their life. No wonder the supply chain for delivery of healthcare services is often fragmented and understood only in discrete sections. Changes in one area impact upon the others, and environmental factors such as pricing, regulatory change or actions by competitors impact the whole supply chain in ways that are not easily understood or managed. Accelerating technology, the commoditization of healthcare, increasing demands from ageing populations all influence the approach that suppliers of pharmaceutical products and services worldwide need to take if they are to design and manage an effective supply chain that will be capable of: exploiting their intellectual property in a sustainable way; providing safe and continuous provision of drugs or devices; and sustaining with resilience, yet still be flexible and cost efficient. Supply Chain in the Pharmaceutical Industry offers the basis for organizations to develop their own blueprint for managing the opportunities and threats to the pharmaceutical supply chain. Using examples from companies and markets across the world Rob Whewell offers a very vivid picture of the developing trends for pharmaceutical companies; the customers and markets they serve and points to some of the elements that underpin sustainable pharmaceutical strategies. The current global banking and financial crisis illustrates the important role played by regulation. The healthcare industry is similar in scope, and complexity, yet the implications of error are worse - life

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threatening. This review of key industry parameters will provide senior executives in the industry and policy makers in healthcare with a broad perspective of the issues and illustrates an understanding of the task at hand.

Supply Chain Metrics that Matter

Securing the Pharmaceutical Supply Chain

The pharmaceutical and healthcare industry is hugely complex because it involves so many markets, products, processes and intermediaries. It is also heavily regulated, global, and used by everyone at some stage in their life. No wonder the supply chain for delivery of healthcare services is often fragmented and understood only in discrete sections. Changes in one area impact upon the others, and environmental factors such as pricing, regulatory change or actions by competitors impact the whole supply chain in ways that are not easily understood or managed. Accelerating technology, the commoditization of healthcare, increasing demands from ageing populations all influence the approach that suppliers of pharmaceutical products and services worldwide need to take if they are to design and manage an effective supply chain that will be capable of: exploiting their intellectual property in a sustainable way; providing safe and

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continuous provision of drugs or devices; and sustaining with resilience, yet still be flexible and cost efficient. Supply Chain in the Pharmaceutical Industry offers the basis for organizations to develop their own blueprint for managing the opportunities and threats to the pharmaceutical supply chain. Using examples from companies and markets across the world Rob Whewell offers a very vivid picture of the developing trends for pharmaceutical companies; the customers and markets they serve and points to some of the elements that underpin sustainable pharmaceutical strategies. The current global banking and financial crisis illustrates the important role played by regulation. The healthcare industry is similar in scope, and complexity, yet the implications of error are worse - life threatening. This review of key industry parameters will provide senior executives in the industry and policy makers in healthcare with a broad perspective of the issues and illustrates an understanding of the task at hand.

Global Supply Chains in the Pharmaceutical Industry

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Supply Chain Management in the Drug Industry

The Indian pharmaceutical market ranks as the world's third largest in terms of volume, and has been growing at an annual rate of over 10 per cent over the last decade. Pharmaceutical policy in India is perceived primarily from an industrial perspective rather than a health sector priority, and is governed by a complex variety of laws and policies. This report reviews recent policy initiatives and their economic and health sector implications. It considers the profound gap that exists between the benefits which pharmaceuticals have to offer, and the reality that for millions of poor people in India medicines are often unaffordable, unsafe or improperly used. The report outlines some strategic options that could strengthen India's ability to ensure the availability, affordability, quality and rational use of

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essential medicines on a sustainable basis, using a mix of public and private sector resources.

Healthcare Supply Chain Management

Securing the Pharmaceutical Supply Chain

In a rapidly growing global economy, where there is a constant emergence of new business models and dynamic changes to the business ecosystem, there is a need for the integration of traditional, new, and hybrid concepts in the complex structure of supply chain management. Within the fast-paced pharmaceutical industry, product strategy, life cycles, and distribution must maintain the highest level of agility. Therefore, organizations need strong supply chain capabilities to profitably compete in the marketplace. Global Supply Chains in the Pharmaceutical Industry provides innovative insights into the efforts needed to build and maintain a strong supply chain network in order to achieve efficient fulfillment of demand, drive outstanding customer value, enhance organizational responsiveness, and build network resiliency. This publication is designed for supply chain managers, policymakers, researchers, academicians, and students, and covers topics centered on economic cycles, sustainable development, and new forces in the

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global economy.

Pharmaceutical Supply Chain

Coordination Mechanisms for Sustainable Supply Chain Management in Pharmaceutical Industry

Error-proofing in the production process of pharmaceuticals isn't just a matter of good business, it has life-and-death implications for consumers. To that end, the 2013 Drug Quality and Security Act in large part requires new mandates on tracking and tracing chain of custody in the supply chain. Pharmaceutical Supply Chain: Drug Quality and Security

Securing the Pharmaceutical Supply Chain

According to the health data released by the Organization for Economic Cooperation and Development (OECD), the United States spends more per capita on healthcare than any other OECD country. Currently, U.S. healthcare spending constitutes \$2.5 trillion, or 17.3 percent of GDP, with healthcare costs increasing 9 percent annually. To reverse this alarming trend, the Obama administration

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recently led the effort to dramatically reform healthcare policy, laws, and regulations. This book provides you (whether a healthcare policy maker, hospital administrator, pharmaceutical company manager, or other healthcare professional) with practical guidance for leveraging supply chain principles to better manage healthcare resources and control healthcare costs. It introduces basic supply chain management concepts, terminologies, and tenets. Other included topics are strategicalliances among healthcare partners, value analysis of healthcare services and products, the impact of healthcare reforms on healthcare supply chains, and the development of performance metrics for the healthcare supply chain and benchmarking.

Operations Research Applications in Health Care Management

This book brings together a winning team of international operations experts to set the framework for building a world-class manufacturing organization.

Pharmaceutical Operations Management focuses on key concepts such as: Policy Execution, Risk Management, Supply chain modeling, Advance process control and Six Sigma for the pharmaceutical industry: critical techniques which will offset cost, increase efficiency and turn any manufacture into financial winner.

The Geography of Transport Systems

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This edition of Managing Drug Supply provides a complete overview, as well as step-by-step approaches, on how to manage pharmaceutical systems effectively.

Drug Shortage Mitigation through Supply Chain Management

At the beginning of the twenty-first century, the human environmental problems resulting from industrial manufacturing activities have affected pharmaceutical supply chain management. Governments have imposed legislations and policies on producers to tackle the medications recovery process. Besides, customers social pressure plays a major role in determining corporate sustainable strategies and performance measures. Creative and proactive approaches are therefore necessary to reduce the introduction of pharmaceutical wastes to the environment and to improve the sustainability of the value chain. In this dissertation, we propose different coordination mechanisms for sustainable pharmaceutical value chains inspired by traditional supply chains coordination mechanisms. For this purpose, a real case study for a generic pharmaceutical company, Generic PharmaX, is considered. We first focus on the reverse supply chain activities in order to reduce medication leftovers at customer sites. We develop a negotiation-based mechanism by the aid of a linear mathematical model to reflect the relationship between the supply chain entities. Results show that up to 28% more products could be collected if companies coordinate their operations efficiently. Moreover, the proposed coordination approaches leads to a win-win situation for

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the reverse supply chain entities, where each effort is rewarded. Next, we explore the role of providing incentives to customers in order to facilitate leftover returns and improve the sustainability for the pharmaceutical reverse supply chain. Coordination model is therefore presented between the producer and third-party logistics companies, responsible for collecting unwanted medications from customer zones. A technique is also proposed to share the expected saving between the supply chain entities. The experimental results indicate that introducing incentives to customers could decrease the amount of leftovers from 18% up to 6.5%. Furthermore, having a proper coordination with 3PL companies, in addition to customer incentives, could guarantee a full medication recovery. Finally, we focus on the inventory control management activities of the value chain. The effect of implementing a Vendor-Managed Inventory (VMI) system on minimizing the quantity of expired medications at customer zones is investigated. Results reveal that implementing the VMI system could improve the sustainability of the supply chain. More precisely, the amount of expired medications could reach zero against the current 18% expiration rate of shipped items. Some insights to guide the supply chain entities through the VMI implementation are also provided.

China Rx

Pharmaceutical Supply Chain Security

This book is a comprehensive review of the current state of digital innovation, Internet activity and e-business in the life sciences arena and a practical guide for managers planning, developing and implementing e-strategies in the pharmaceutical industry. The authors provide numerous examples of innovative, best practice and lay the strategic foundation for using e-business across the pharmaceutical value chain from drug discovery to physician promotion to direct-to-consumer marketing.

Health Care Operations Management

Verena Brenner provides a systematic approach for the investigation, measurement, and management of supply chain disruptions. A terminological, theoretical and practical basis for the analysis of supply chain disruptions is developed to create a consistent and transferable research framework. To better understand why certain supply chains are more susceptible to disruptions than others, this framework is then tested empirically in cold chain logistics. Based on a survey with approximately 60 supply chain specialists from production, distribution and retail of food and pharmaceuticals, drivers for resilience and vulnerability of supply chains are identified by comparing how partnerships and transactions were

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organized. Thereby, strategies for assuring the robustness of supply chains are depicted and connections to company-internal risk management are highlighted.

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