

CSCRL FALL FORUM

INNOVATING FOR THE FUTURE: THE ROLE OF TECHNOLOGY IN THE
SUPPLY CHAIN
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ABSTRACT

TRACK AND TRACE UNDER THE DRUG SUPPLY CHAIN SECURITY ACT

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In this 30-minute presentation, we will explore the critical aspects of pharmaceutical supply chain traceability, focusing on the Drug Supply Chain Security Act (DSCSA), the technologies employed for tracking pharmaceuticals, and the challenges that have been overcome in this domain.

We will begin by exploring the Drug Supply Chain Security Act (DSCSA), a pivotal regulation aimed at enhancing the security of the pharmaceutical supply chain in the United States. This section will cover the origins of the regulation, the key requirements of the DSCSA, its impact on various stakeholders, and the timeline for its implementation.

Next, we will examine the technologies used for traceability in the pharmaceutical industry. This includes an overview of advanced tracking systems such as Barcode technologies, blockchain, and serialization. We will discuss how these technologies ensure the authenticity and safety of pharmaceutical products from manufacturing to the end consumer.

Finally, we will address the challenges overcome in implementing these traceability measures. This part of the presentation will highlight the obstacles faced by the industry, such as data integration, compliance with regulatory standards, and the cost implications. We will also showcase successful case studies where these challenges have been effectively managed, and what other industries have benefited from these technologies.

By the end of this presentation, attendees will have a comprehensive understanding of the regulatory framework, technological advancements, and practical solutions that are shaping the future of pharmaceutical supply chain traceability. This knowledge is essential for both students and professionals who are keen to contribute to the integrity and safety of the pharmaceutical industry.

