



# How do we want to shape the Future of Pharmacy Practice?

December 16th 2020 6:00-7:30pm  
Continuing Education Credits 1.5hr



The **Long Island Society**  
of  
**Health-system Pharmacists**

**NYSCHP**

New York State  
Council of Health-system  
Pharmacists

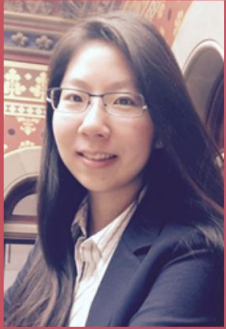
# Objectives

1. Review the history of the pharmacy practice advancement in New York State (NYS)
2. Assess the changes led by technological innovations within Pharmacy Practice and other industries
3. Facilitate opportunities for Pharmacy Practice Advocacy

**Audience:**

**Please fill out**  
**the PRE-survey**

# Introduction: How do we want to Shape the Future of Pharmacy Practice?



SEE WON SEO  
PHARMD, BCACP

NORTHEASTERN CHAPTER

**MODERATOR**

Grassroots Advocacy  
Committee Chapter  
Chair

Assistant Professor at  
the Albany College of  
Pharmacy and Health  
Sciences



SHAWN FELLOWS  
PHARMD, BCPS

ROCHESTER  
CHAPTER

Grassroots Advocacy  
Committee

Associate Professor @  
St. John Fisher College  
Clinical Pharmacist,  
Primary Care



MICHAEL MILAZZO  
PHARMD BCPS

WESTERN CHAPTER

Director of Public Policy,  
WNYSHP

Clinical Pharmacist –  
Investigational Drug  
Service @ Roswell Park  
Cancer Institute



SAMANTHA PAONE  
PHARMD, BCPS

ROYALS & LISHP  
CHAPTERS

Co-Chair, Grassroots  
Advocacy Committee

Clinical Pharmacy  
Coordinator @ North  
Shore University Hospital



VICKIE POWELL  
BS, PHARMD, MS,  
FASHP

NYCSHP CHAPTER

Site Director of Pharmacy  
Operations, New York  
Presbyterian Hospital,  
Columbia University  
Medical Center

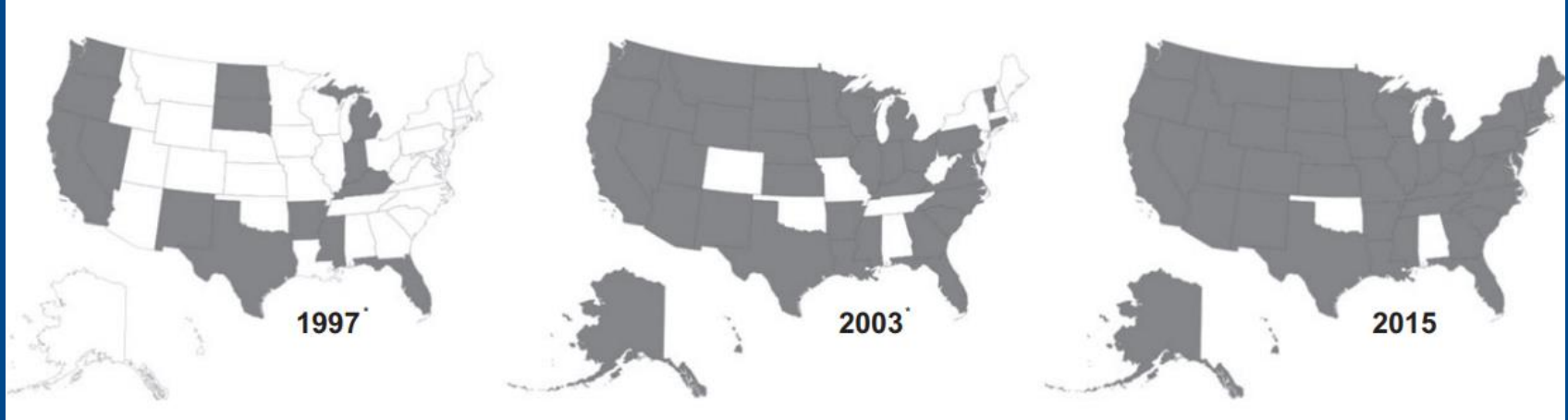
# **Review the history of the Pharmacy Practice advancement in NYS**



# Collaborative Drug Therapy Management (CDTM) in New York State



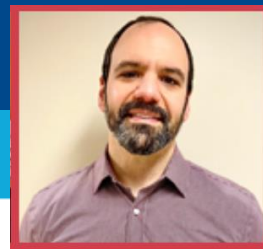
- Formal partnership between pharmacist and physician
  - Manage patient's disease state using drug therapy under agreement
- 48 states have CDTM laws for Pharmacists
- CDC and AMA have recognized impact of pharmacists in collaborative agreements on patient care



# CDTM Legislation



| *STEPSforward*<sup>™</sup>



## Embedding Pharmacists Into the Practice

Collaborate with pharmacists to improve patient outcomes

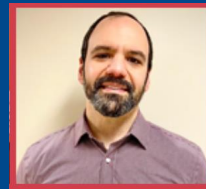


Hae Mi Choe, PharmD  
Associate Dean of Pharmacy

Connie Jean Standiford, MD  
University of Michigan Health System

Marie T. Brown, MD, FACP  
Associate Professor, Rush University,

# Collaborative Drug Therapy Management (CDTM) in New York State



2011: Pilot project: Teaching Hospitals

2015: All hospitals: Sunset in 2018

## Pilot Project:

Anticoagulation, Diabetes, Heart Failure, HIV, Oncology, Asthma

***Improved outcomes!***

2018: Sunset 2022 Optimization?

?



# New York State: Pharmacists as Immunizers



MICHAEL MILAZZO  
PHARM.D BCPS



SHAWN FELLOWS  
PHARM.D, BCPS



SAMANTHA PAONE  
PHARM.D, BCPS



VICKIE POWELL  
BS, PHARM.D, MS,  
FASHP

# New York State: Pharmacists as Immunizers

**2008: Influenza, Pneumococcal**

**2015: Meningococcal, Tetanus, Diphtheria, Pertussis Herpes Zoster**

**2018: Influenza for pediatrics (aged 2-18) Sunset: 2022**

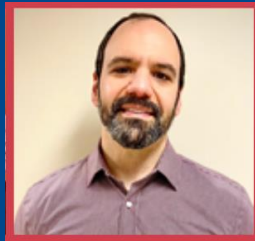
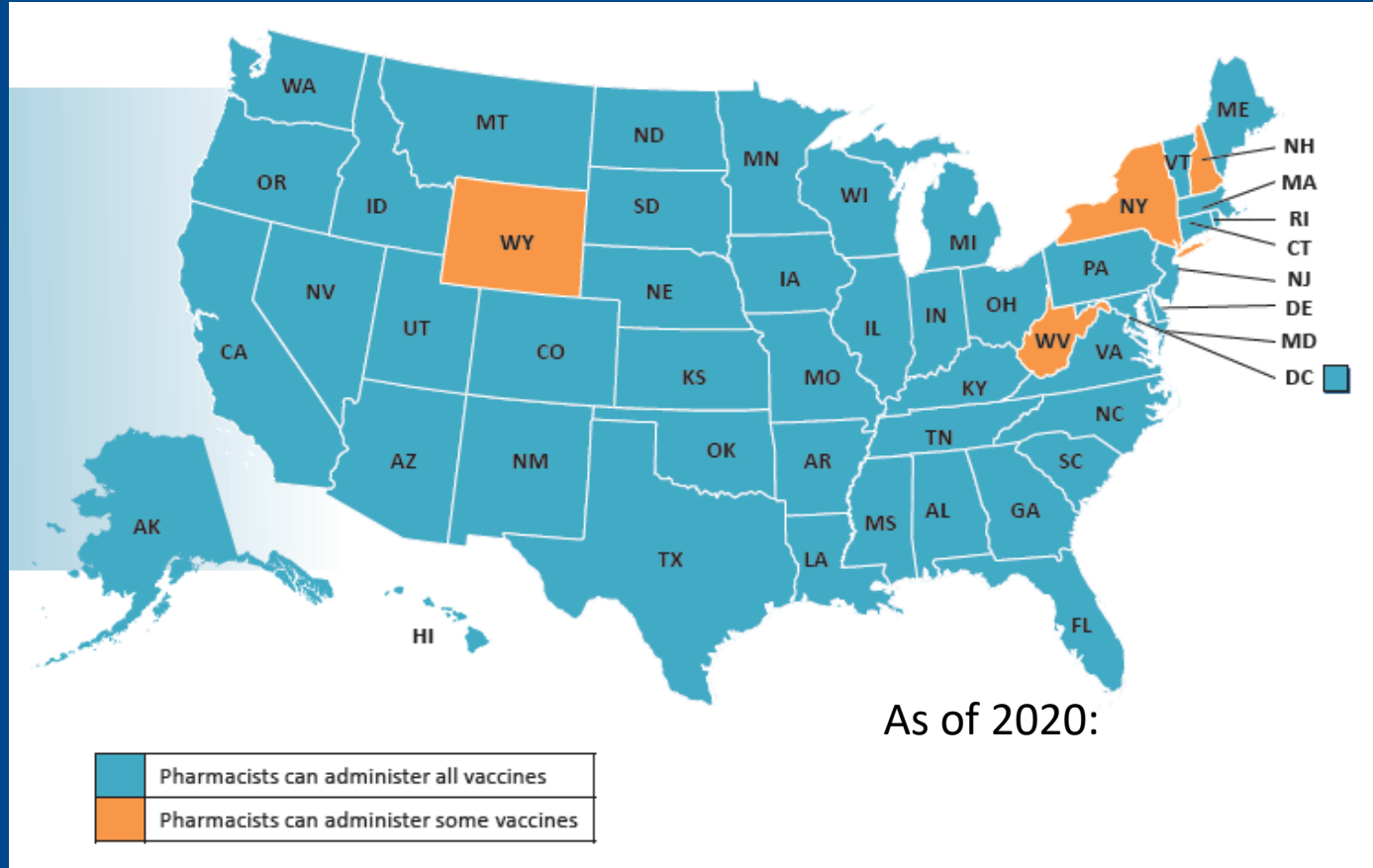


<https://www.pharmacist.com/ny-pharmacists-can-administer-more-immunizations-under-new-law>

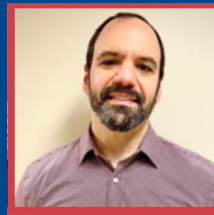
[https://www.health.ny.gov/prevention/immunization/providers/2010-07\\_mandated\\_reporting\\_requirements.htm](https://www.health.ny.gov/prevention/immunization/providers/2010-07_mandated_reporting_requirements.htm)

Adapted with permission from Andrew Kaplan and Karen Berger

# Pharmacist Immunization Provision



# New York State: Pharmacists as Immunizers



**2008: Influenza, Pneumococcal**

**2015: Meningococcal, Tetanus, Diphtheria, Pertussis Herpes Zoster**

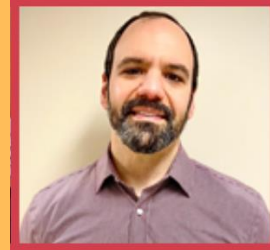
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[https://www.health.ny.gov/prevention/immunization/providers/2010-07\\_mandated\\_reporting\\_requirements.htm](https://www.health.ny.gov/prevention/immunization/providers/2010-07_mandated_reporting_requirements.htm)

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# **Assess the changes led by Technological Innovations within Pharmacy Practice and other industries**





## make drug ingredients is approved

By Noah Manskar

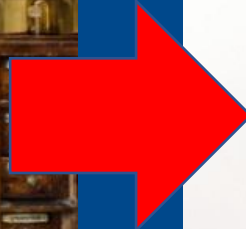
December 7, 2020 | 8:56am | Updated



# Transformation & Innovation

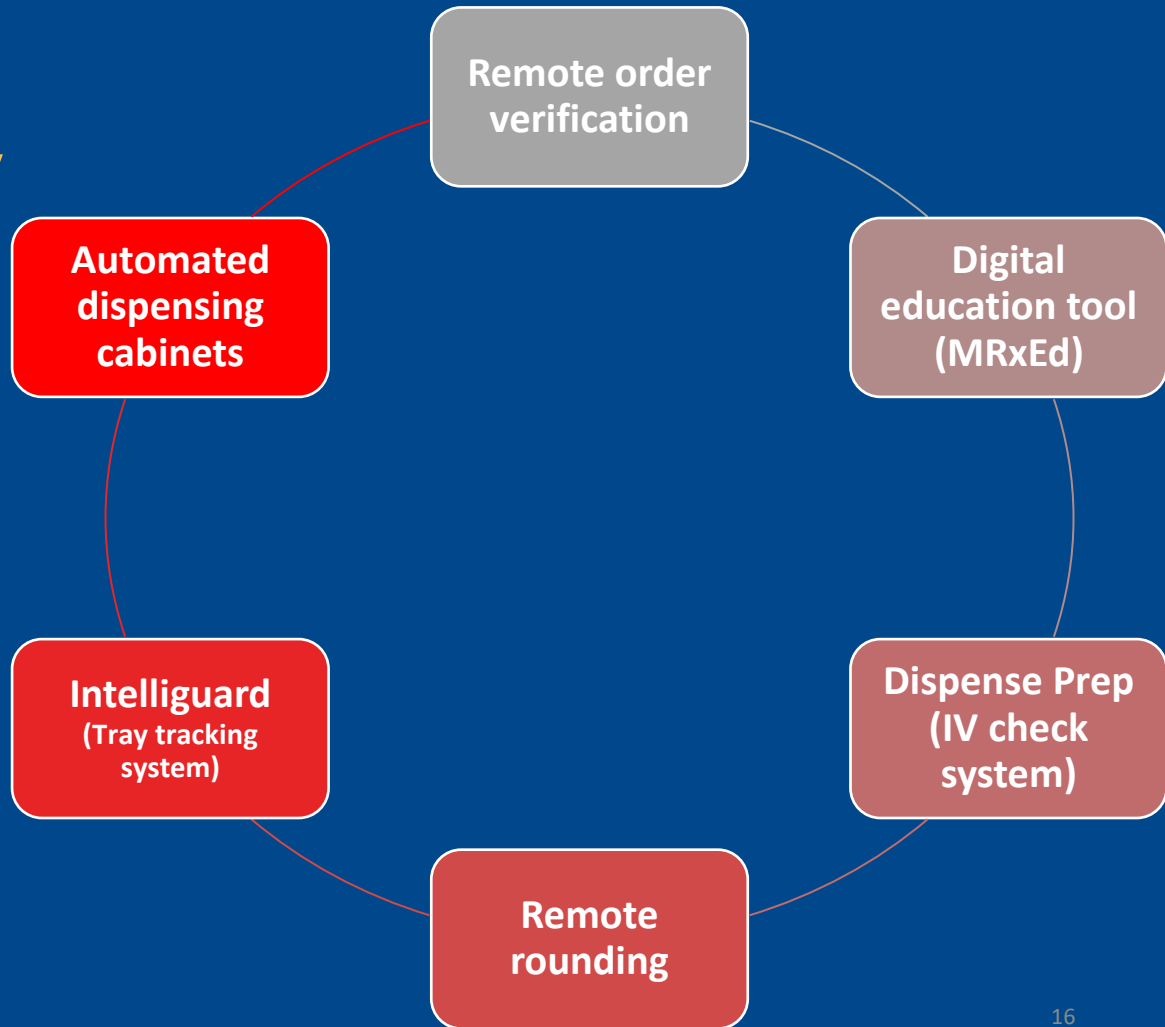
Photo credit: forbes.com; independent-photo.com; nypost.com; vulture.com; businessinsider.com

# Modernization of the role of Pharmacists





# Technology in Pharmacy





# Pharmacy Automation and Technician Workflows

Pharmacy automation has been shown to reduce medication errors and Pharmacist and technician time to all them to perform to the highest degree of their license and certifications



- **RIVA™**
- **Automated IV Compounding Robot**

- Restocking compounding supplies and IV medication components
- IV batching



## **BoxStation®**

- Preparation medications for pharmacist verification before PillPick® restock

## **PillPick®**

- Overwrapping unit doses (restock)
- Omnicell restocks
- Cartfill runs
- STAT doses

## **BoxPicker®**

- Restocking and dispensing bulk items

**swisslog**  
healthcare



# Swisslog PillPick and BoxPicker



- PillPick
  - Provides unit-dose packaging, storage, and dispensing in one robot
  - Pharmacist provides check prior to unit dose of item
  - Multiple checks throughout the system ensure accurate component is dispensed
  - Machine will sort returns and keep par levels for ordering
- BoxPicker
  - Only allows users to access one box at a time, thus decreasing medication errors
- NYPQ runs automated dispensing cabinet refills through technology
- Technology has increased operational efficiency
  - Pharmacists spend less time checking
  - Technicians spend less time pulling medications/ sorting returns
  - Buying team has real-time inventory numbers
- Results in less time spent by pharmacists checking correct doses



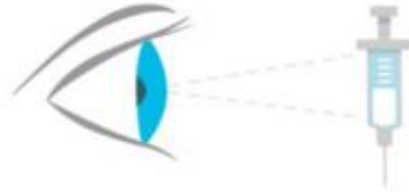
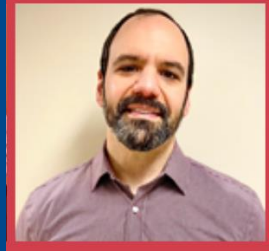
# Gravimetric IV Workflow Management System (IVWMS)



- Utilizes gravimetric analysis, barcode verification, and image capturing with hard stops to streamline compounding process
- Program helps with regulatory compliance (USP 797 and 800)
- Program helps with inventory management, prompts compounders to utilize open vials and returns. Compounding list updates in real-time preventing users from making doses that are discontinued
  - In 2020, saved NYPQ over 90 minutes of compounding time per day and approximately \$200,000 in drug spend



# Gravimetric Preparation



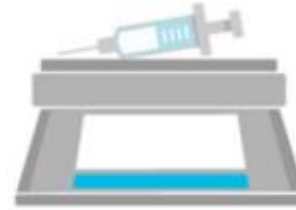
## Volumetric preparation

variation due to syringe  
deviation/visual error



Prescribed dose

**Volumetric analysis** — utilizing the markings on a syringe to **visually** measure the amount of liquid being added or removed during IV compounding.



## Gravimetric preparation

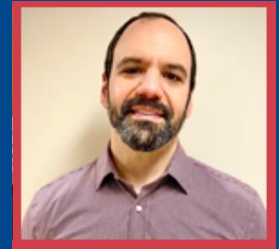
variation due to balance  
deviation



Prescribed dose

**Gravimetric analysis** — the process of utilizing a **known specific gravity** to quantitatively determine the amount of a substance based on **measured weight**.

# Gravimetric Preparation



BD Cato 2.35.0-US, DN-EXT: 2.35.1.10, DE 11401 (Admin Connected to cato2351data) - [Preparation]

File Edit Insert Preparations Therapy Master Data Reports Tools Administration ?

Set Up Med. Preparation Medications

**32mg DOXOrubicin Inj in NaCl 0.9% 50mL Bag PAB B. Braun i.v. over 10 min, Elm, Mary (LAKE - 2 South) for 11/3/2015 5:00 PM**



Achieved: 25.39mg AS withdrawn Prescribed: 32mg

79.4%

Picture taken! Continue preparation or  
<F7> Take additional picture

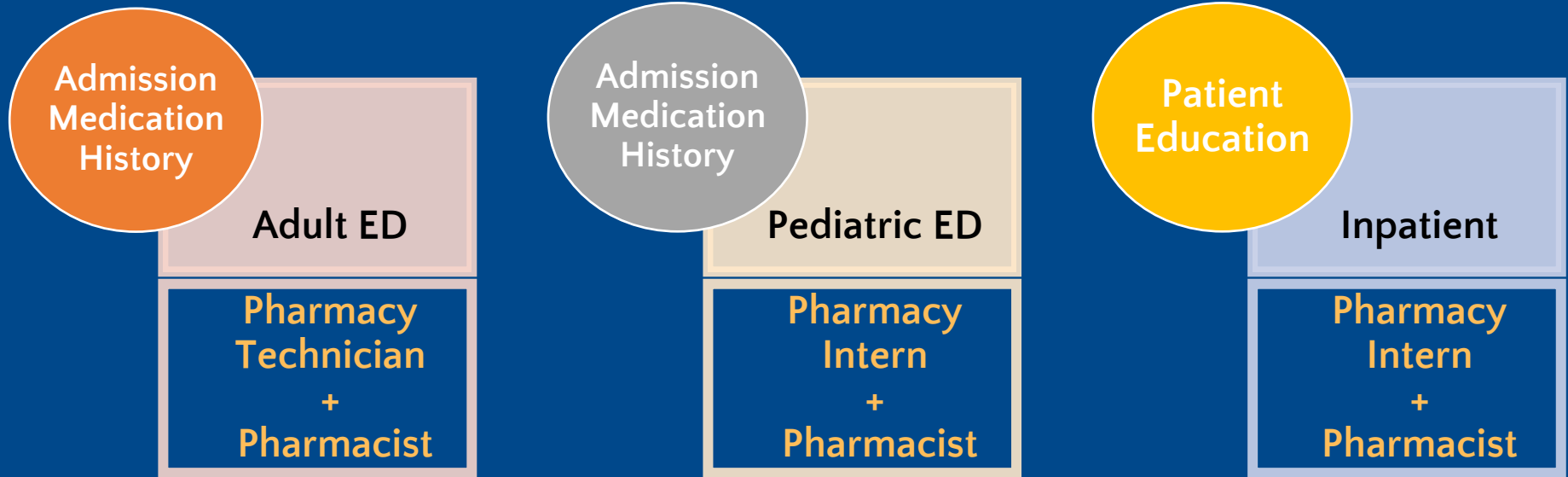
**You took out 3.3mL solution too little!**  
withdraw the missing quantity into the syringe.  
Take the syringe from the scale.

<F1> if this vial is empty.  
<F3> if this syringe is already full



<F4> Preparation Menu <F5> Take Balance <Backspace> Undo last step

# Pharmacy Extenders and Pharmacist Collaboration



# Our Experience



> J Pharm Pract. 2020 Aug 20;897190020949425. doi: 10.1177/0897190020949425.  
Online ahead of print.

## Expanding Pharmacy Services With an Intern Program at an Academic Medical Center

Hanlin Li <sup>1</sup>, Vickie Powell <sup>1</sup>, Demetra Tsapepas <sup>1 2 3</sup>

Affiliations + expand

PMID: 32815470 DOI: 10.1177/0897190020949425



# Facilitate opportunities for Pharmacy Practice Advocacy



SAMANTHA PAONE  
PHARMD, BCPS



MICHAEL MILAZZO  
PHARMD BCPS



VICKIE POWELL  
BS, PHARMD, MS,  
FASHP



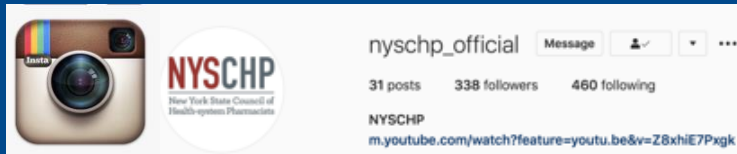
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# NYSCHP Social Media



## Instagram



## LinkedIn



## Facebook



## Twitter



# Other Platforms



## Podcast





New York State Council of  
Health-system Pharmacists

**2,089**  
Downloads

**18**  
Episodes

**Indispensable**

 <https://feed.podbean.com/nyschp/feed.xml>



New York State Council of  
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**Episode 18: Well-Being & Resilience Part 2**

October 20, 2020

In this episode, Dr. Alana Ciolek and Dr. Jessica Snead, co-chairs of the NYC chapter's well-being and resilience committee, discuss the promotion of wellness at work with anesthesiologist Dr. Cortessa Russell and registered nurse Ms. Nicole (Nikki) Guerrero. View show notes here.


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# Advocacy in the C-Suite & Pharmacy Organizations



VICKIE POWELL  
BS, PHARM.D, MS,  
FASHP



SHAWN FELLOWS  
PHARM.D, BCPS



SAMANTHA PAONE  
PHARM.D, BCPS



MICHAEL MILAZZO  
PHARM.D BCPS

**Audience:**

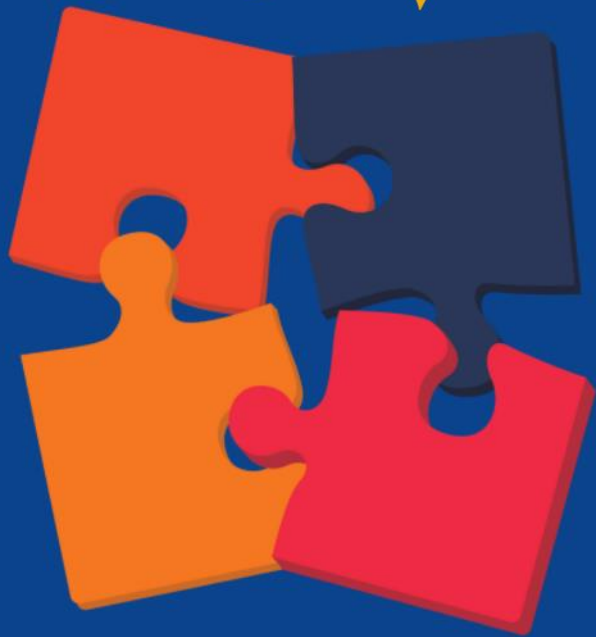
**Please fill out**  
**the Post-survey**

# Are you ready?



Together  
We Can!

THANK  
YOU





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