

Leveraging Data: Demonstrating Pharmacy Value Beyond Dispensing





Samaneh Wilkinson

Senior Director – Ambulatory Pharmacy Services

The University of Kansas Health System



Jennifer Loucks

Ambulatory Clinical Pharmacy Manager

The University of Kansas Health System



Sarah Daniel

Assistant Director – Specialty Pharmacy

The University of Kansas Health System



Disclosures

The following individuals report having no relevant conflicts of interest:

- Samaneh Wilkinson
- Jennifer Loucks
- Sarah Daniel

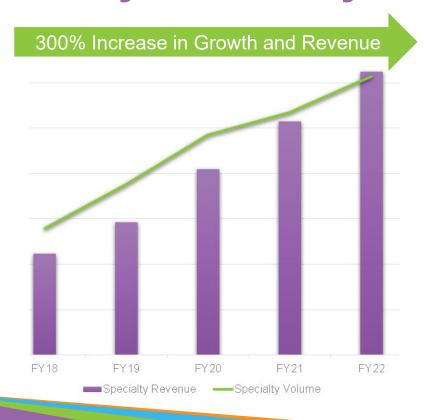


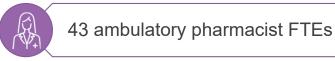
Learning Objectives

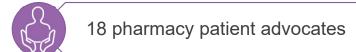
- 1. Discuss strategies to proactively identify outcomes and data needs
- 2. Describe an approach to integrate discrete data collection into practice
- 3. Evaluate opportunities for automated reporting and dashboards
- 4. Summarize ways to leverage documentation, data, and reporting for multiple business purposes

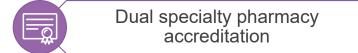


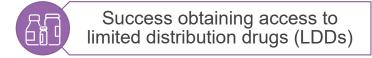
The University of Kansas Health System Specialty Pharmacy







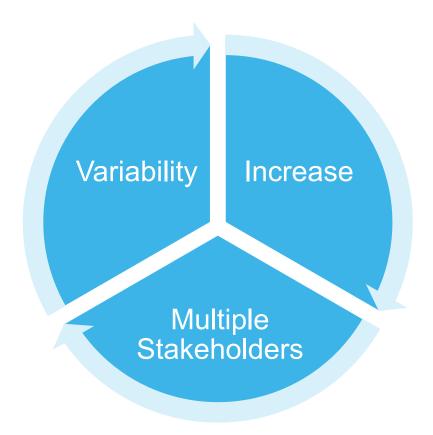






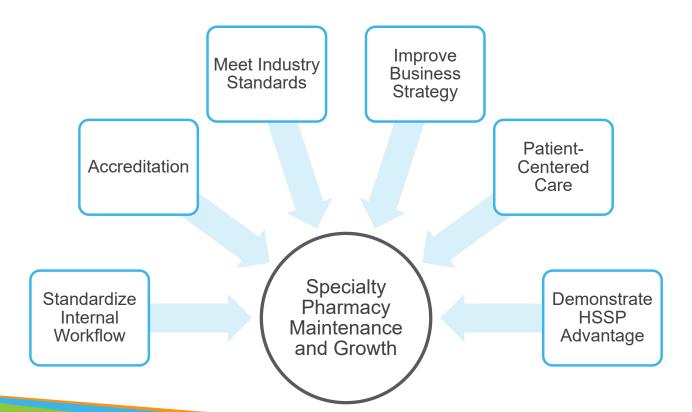


Demand for Data



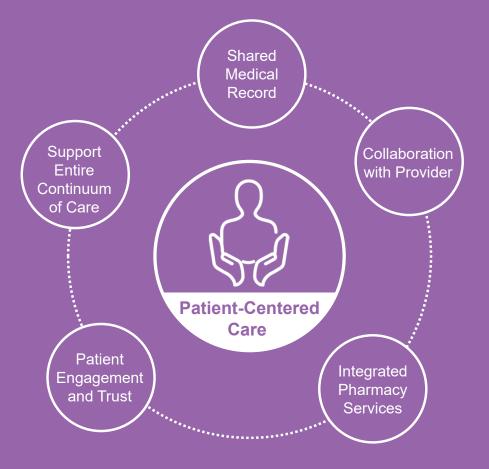


Importance of Health System Specialty Pharmacy (HSSP) Data





HSSP Advantage





2023 ACENTRUS SPECIALTY. Reproduction without permission is prohibited.



- Internal awareness of HSSP advantage/impact
- Shared and limited IT and reporting resources
- Accessibility of data
- Lack of industry standard for pharmacist value

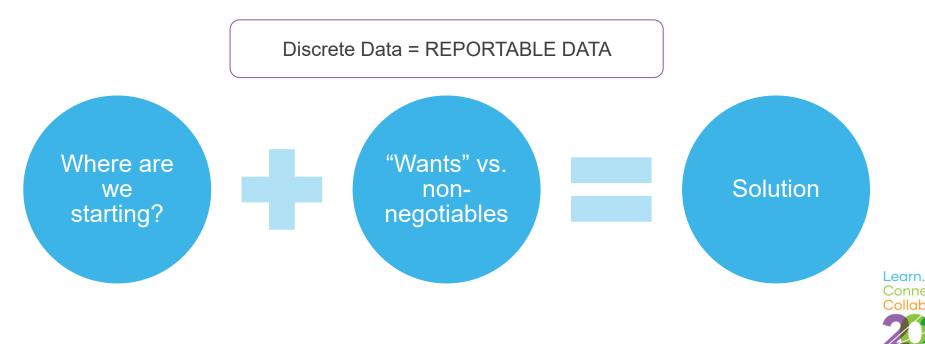


Creating a sustainable solution to meet data requests and sharing the HSSP advantage of delivering superior patient care

Learn.
Connect.
Collaborate.



Create a process empowering clinicians to document certain discrete data elements efficiently and effectively



Our 'Data' Journey

2017-18

2019

2020

- · Standardized note templates
- · Report counts of templates used

- · Added choices to note templates
- · Improved workflow
- · Small gain in reporting

IT resident project: build new documentation system

2021

- Hired ambulatory IT pharmacist
- · Perfected documentation system

2022

Pharmacy leadership and data analytics team create first dashboard



Where We Started...



Where we started

- Pharmacist documentation with progress notes
- Numerous "templates"
- No discrete data beyond dispensing
- No IT/reporting resources
- No solution with current tools



What Were the Non-Negotiables?



Where we started

- Pharmacist documentation with progress notes
- Numerous "templates"
- No discrete data beyond dispensing
- No IT/reporting resources
- No solution with current tools

Non-negotiables

- Avoid duplicate documentation
- Standardized "definitions"
- Generate discrete data
- Customizable to fit various needs
- Single source for multiple data needs



What Solution Did We Select?







- Pharmacist documentation with progress notes
- Numerous "templates"
- No discrete data beyond dispensing
- No IT/reporting resources
- No solution with current tools

Non-negotiables

- Avoid duplicate documentation
- Standardized "definitions"
- · Generate discrete data
- Customizable to fit various needs
- Single source for multiple data needs

Solution

- Developed tool for pharmacists to document progress notes
- Available within the current system
- Documentation generates discrete REPORTABLE data



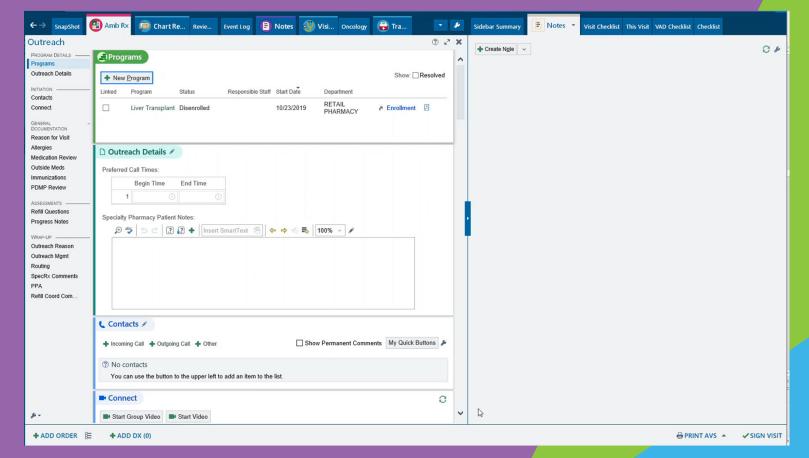
Our Approach







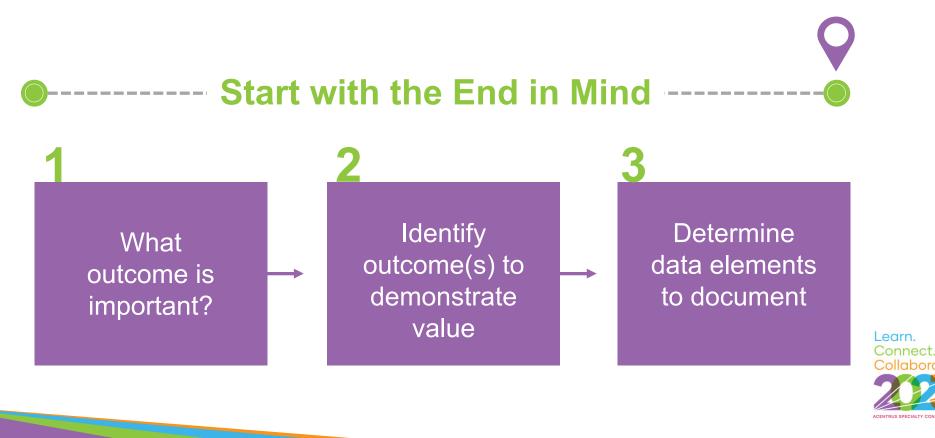
Pharmacist Documentation



Learn. Connect. Collaborate.



Decide on Outcomes FIRST!



The Value Story...

Health system specialty pharmacists provide superior patient care by adequately addressing drug interactions to prevent negative outcomes



2023 ACENTRUS SPECIALTY Reproduction without permission is prohibited

Identify Outcome that Demonstrates Value

Pharmacist developed plan to address drug interactions prior to safely proceeding with therapy



Define the Outcome

Percentage of patients with a clinically significant drug interaction with a documented plan to address the drug interaction



Plan to address drug interaction documented

Patients with a clinically significant drug interaction



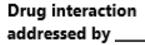
Create Data Elements to Document Outcome

Pharmacist addressed drug interaction and developed plan to safely proceed



Plan to address drug interaction documented

Patients with a clinically significant drug interaction

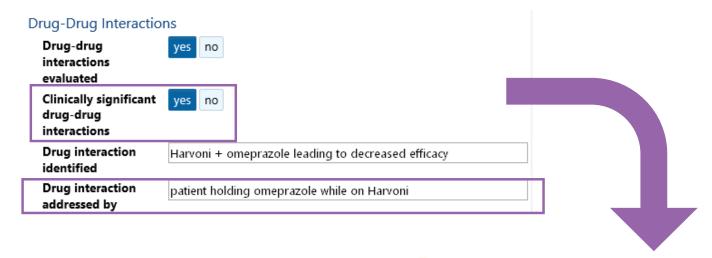


Clinically significant yes no drug-drug interactions





Develop Documentation to Generate Note



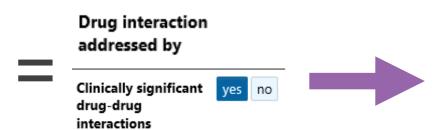
Drug-Drug Interactions

Drug-drug interactions were evaluated. There were clinically significant drug-drug interactions. The following drug-drug interactions were identified: Harvoni + omeprazole leading to decreased efficacy, and will be managed by patient holding omeprazole while on Harvoni.



Report Outcome from Discrete Data

Pharmacist addressed drug interaction and developed plan to safely proceed



Pharmacist addressed drug interaction and developed strategy to safely proceed



97.8%

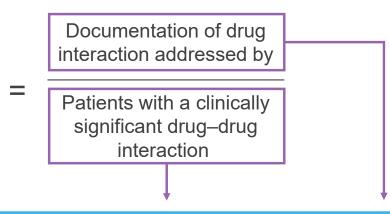
Goal: 100%



Data Validation and Improvement



Pharmacist addressed drug interaction and developed plan to safely proceed



Note Date	Disease State	Type of Assessment	Clinically Significant Drug-Drug Interaction	Drug Interaction Addressed By
11/4/2022	Movement disorders	Re-assessment	1	Baseline EKG 3/7/20: QTc 403. Repeat EKG ordered
11/9/2022	Epilepsy	Initial assessment	1	Monitoring of side effects



Considerations for Outcomes

Tell a story

Focus on outcomes and value, avoid intermediaries

Understand current performance, avoid chasing metrics that don't matter

Feasibility, validity, and reproducibility

Key stakeholders and other internal factors



Using the Data

- Data availability and visualization
- Improved compliance with accreditation standards
- Business strategy

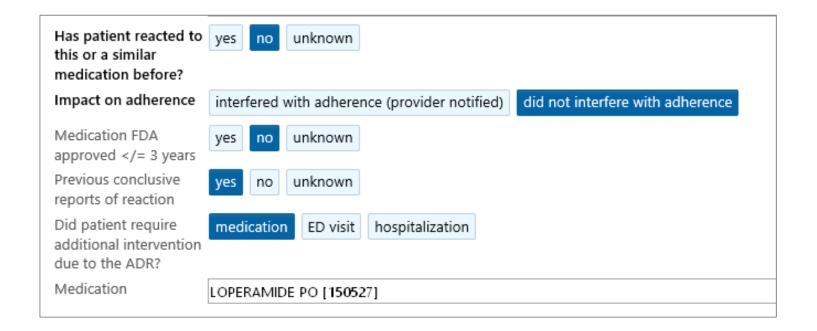
Learn.
Connect.
Collaborate.



Data Availability: MedWatch Reporting

Adverse Drug Reaction Details - Medication #1					
Select medication	ELEXACAFTOR-TEZACAFTOR-IVACAFT 100-50-75 MG(D) /150 MG (N) PO TBSQ (aka TRIKAFTA) [451256]				
Adverse Drug Reaction Symptoms					
Cardiovascular	chest pain	hypotension	leg swelling	palpitations	
Constitutional	fatigue	fever	weight change		
Electrolyte abnormalities	hyperkalemia	hypokalemia	hyponatremia		
Endocrine	cold intolerance	heat intolerance	polydipsia	polyuria	
Eyes	blurred vision	dry eyes	excessive tearing	visual disturbances	
Gastrointestinal	abdominal pain	✓ diarrhea	heartburn	nausea/vomiting	
	constipation	dry mouth	loss of taste		
Genitourinary	frequency	urgency			
Hematologic	bleeding	bruising			
HENT	congestion	dry mouth	rhinorrhea	tinnitus	
	drooling	hearing loss	sore throat		
Musculoskeletal	arthralgia	leg cramps	myalgias		
Neurological	dizziness/lightheadedness	headache	tremor	weakness	
	falle	syncone			

Data Availability: MedWatch Reporting





Data Availability: MedWatch Reporting

4/26/2022 Re-assess Cystic Fibrosis	1 ELEXACAFTOR-TEZACAFTOR-IVACAFT 100-50-75 N	other		Changes in mood/excessive v	veight gain	
5/25/2022 Re-assess Rheumatology	1 APREMILAST 30 MG PO TAB					nausea/vomitir
11/29/2022 Re-assess Rheumatology	1 APREMILAST 30 MG PO TAB					nausea/vomitir
4/20/2022 Re-assess Multiple Sclero	1 GLATOPA 40 MG/ML SC SYRG		palpitatio fatigue			
4/12/2022 Re-assess ILD	1 OFEV 150 MG PO CAP					diarrhea; nause
2/24/2022 Re-assess Cystic Fibrosis	1 ELEXACAFTOR-TEZACAFTOR-IVACAFT 100-50-75 N	other		Acne from Trikafta		
2/3/2022 Re-assess Asthma	1 DUPIXENT SYRINGE SC	other		Reports eye discomfort and s	light swelling/redness. States she h	as seen the ophthalmologist and r
3/11/2022 Re-assess Dermatology	1 OTEZLA 30 MG PO TAB					abdominal pain
1/11/2022 Re-assess Dermatology	1 OTEZLA 30 MG PO TAB					
6/29/2022 Re-assess IBD	1 STELARA 130 MG/26 ML IV SOLN		fatigue		yes	
5/2/2022 Re-assess ILD	1 ESBRIET 267 MG PO CAP	other		shakiness		
12/20/2022 Re-assess IBD	1 RINVOQ 45 MG PO TB24			acne	no	
1/19/2022 Re-assess Cystic Fibrosis	1 ELEXACAFTOR-TEZACAFTOR-IVACAFT 100-50-75 N	1G(D)/15	0 MG (N) PO TBSQ			abdominal pain
3/10/2022 Re-assess ILD	1 OFEV 150 MG PO CAP					diarrhea
3/28/2022 Re-assess ILD	1 OFEV 100 MG PO CAP					diarrhea
4/4/2022 Re-assess Dermatology	1 OTEZLA 30 MG PO TAB	other		mild bloating		
2/28/2022 Re-assess ILD	1 OFEV 100 MG PO CAP	other	fatigue	headache		diarrhea
4/7/2022 Re-assess Multiple Sclero	1 GLATIRAMER 40 MG/ML SC SVRG					
4/15/2022 Re-assess Cystic Fibrosis	1 LUMACAFTOR-IVACAFTOR 150-188 MG PO GRPK					diarrhea
10/26/2022 Re-assess IBD	1 SKYRIZI IV				yes	abdominal pain
4/5/2022 Re-assess IBD	1 STELARA 90 MG/ML SC SYRG	other	fatigue	dry skin, hair loss		
4/5/2022 Re-assess Multiple Sclero	1 TECFIDERA 240 MG PO CPDR					
4/7/2022 Re-assess Multiple Sclero	1 AUBAGIO 14 MG PO TAB	other		Hairloss		
5/5/2022 Re-assess ILD	1 OFEV 150 MG PO CAP	other		gas		diarrhea
5/23/2022 Re-assess Multiple Sclero	1 AUBAGIO 14 MG PO TAB				no	nausea/vomitir
2/28/2022 Re-assess ILD	1 OFEV 100 MG PO CAP					diarrhea
4/21/2022 Re-assess ILD	1 OFEV 100 MG PO CAP					diarrhea
1/11/2022 Re-assess Rheumatology	1 ADALIMUMAB 40 MG/0.4 ML SC PNKT	other		bumps in vaginal area		
12/30/2022 Re-assess IBD	1 STELARA 90 MG/ML SC SYRG		fatigue	upper respiratory symptoms	(sore throat, yes	
8/29/2022 Re-assess Cystic Fibrosis	1 ELEXACAFTOR-TEZACAFTOR-IVACAFT 100-50-75 N	1G(D)/15	0 MG (N) PO TBSQ		yes	constipation
4/21/2022 Initial Ass ILD	1 OFEV 150 MG PO CAP					nausea/vomitin
4/21/2022 Re-assess ILD	1 OFEV 150 MG PO CAP					nausea/vomitir

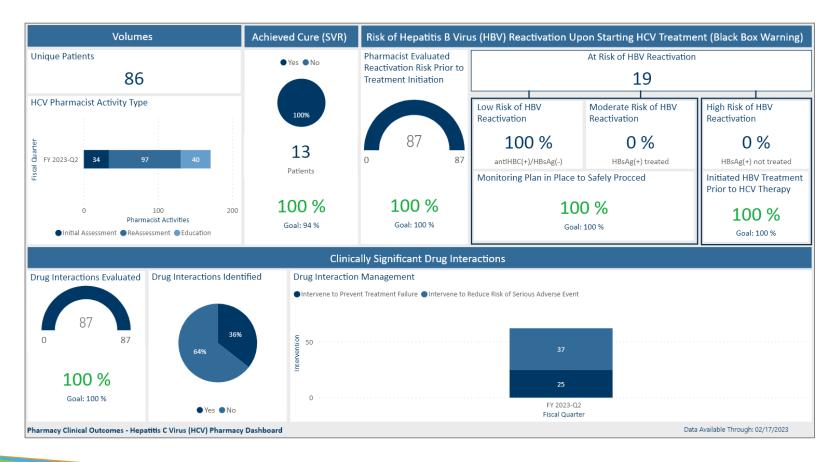


Data Availability: Pharmacist Activities and Growth





Data Visualization: Clinical Dashboards







Improved Compliance with Accreditation Standards

Less maintenance and increased compliance





Improved Compliance with Accreditation Standards

Content guides user through requirements

Patient tracers: Find and fix issues to improve compliance with standards

- Dashboard clearly identifies gaps
- Details accessible to identify and address gaps





Business Strategy: Prescription Capture

Pharmacist documents filling pharmacy and reason for outside pharmacy

- Pros: Provides additional details that are traditionally unavailable
- Cons: Relies on pharmacist documentation and low rate of leakage

Pharmacy	
Select pharmacy	TUKHS pharmacy outside pharmacy
	TBD - filling pharmacy unknown at this time
Specify outside pharmacy	Name of pharmacy
Reason for outside pharmacy	insurance mandate patient preference access (limited distribution drug) medication assistance program



Business Strategy: Prescription Capture

Learn.
Connect.
Collaborate.

Non-Health System Pharmacy Unique Patient Count (prescriptions)

338

Non-Health System Pharmacy Utilization

48%

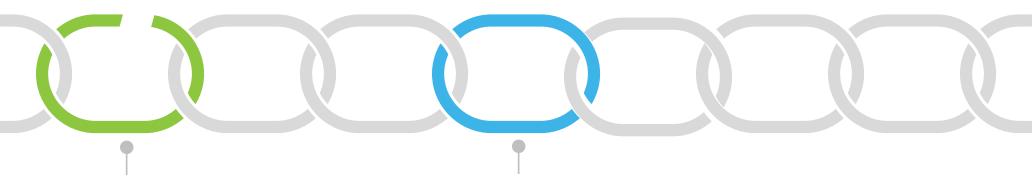
No Opportunity for Health System to Fill 42% Estimated Financial Impact (No Opportunity to Fill) Based on first fill Reason Total Percent Financial Impact access (limited 1.4% distribution drug) 258 87.2% insurance mandate medication 34 11.5% assistance program Total 296 100.0%

Opportunity for Health System to Fill 6% Estimated Financial Impact (Opportunity to Fill) Based on first fill Reason Total Percent Financial Impact 9.5% adherence 2.4% packaging customer service 14.3% Other 71.4% unable to ship 2.4% Total 42 100.0%

Pharmacy Clinical Outcomes - Executive Pharmacy Dashboard

© 2023 ACENTRUS SPECIALTY. Reproduction without permission is prohibited.

Business Strategy: Linking Data Sources



CURRENT STATE

- Current reports do not link clinical and dispense data
- Not all prescription statuses are discrete data elements
- Proxy data points for prescription status

FUTURE STATE

- Link multiple data sources
- Capture all prescription statuses as discrete data elements without affecting workflow
- Ability to send larger range of statuses in data extracts



Business Strategy: Payor Contracting

Most significant barrier to our growth and mission to take care of every patient in our health system



Health System Vision for All Contracting



Leverage Local Employer Relationships



Demonstrate
HSSP
Advantage
Using Data



Implementation Takes Time—Start Now!

Justify Resources

- IT Pharmacist
- Leadership
- Clinical Experts
- Reporting and Data Analytics

Leverage Acentrus Partnership

- Regional Account Director
- Acentrus Vendor Portfolio

Get Involved

- Participate in Research
- Join Organizational Committees
- Share Your Progress



Questions Learn. Connect. Collaborate. © 2023 ACENTRUS SPECIALTY. Reproduction without permission is prohibited.

Learn.
Connect.
Collaborate.



