

2022 PHARMACY

FACTS & FIGURES

Vision: To be the best in pharmacy practice for our patients, caregivers and community

Mission: Providing a lifetime of exceptional care through patient-centered pharmacy practice, research and education

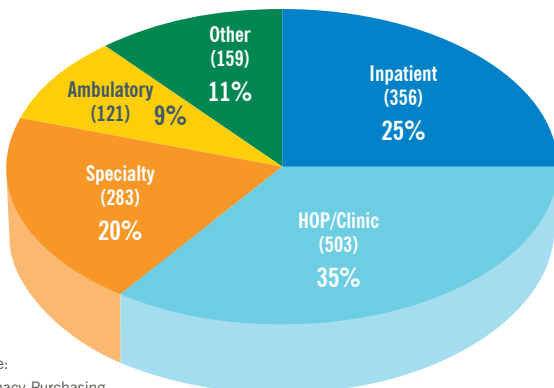
WHO WE ARE

22	Hospitals
6,496	Total Hospital Beds
24	Outpatient Pharmacies
709	Pharmacists (282 board certified – 40%)
660	Technicians
64	Residents
87	Interns
1,112	APPE/IPPE Rotations Completed

One paper or presentation published **every 5.7 days in 2022**

33	Peer Reviewed Publications
16	Poster and Platform Presentations
4	Book Chapters
11	Miscellaneous Publications


2022 CC Pharmaceutical Purchases | \$1.42 Billion



Source: Pharmacy Purchasing Datawarehouse YTD through Q4 2022

REVENUE AND COST SAVINGS

Pharmacy Enterprise Savings

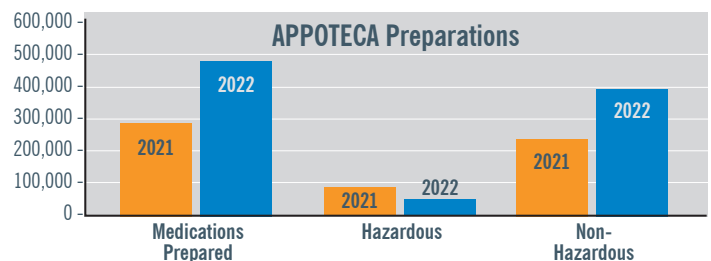
- Pharmacist interventions led to a total cost avoidance of **\$3 million**
- Implemented biosimilars and generic medications saving **\$31.1 million** 
- Validated revenue integrity by reducing pre-service Prior Authorization (PA) denials with **zero incorrect billing charges** in November 2022
- Expanded auto referral for PAs for outpatient infusions to Kidney, Medicine and Transplant
- Increased community pharmacy services revenue by **14%**

Employee Health Plan (EHP) Savings


- Net cost per member per month of **\$35.25 less** than other hospital employers in our PBM's employer book of business
- Completed **15,600 clinical reviews** for PAs and resolved **over 9,000** customer relationship management interactions with 82% first call resolution
- Achieved **\$16.5 million** in enterprise cost avoidance through EHP's Mandatory Maintenance Program


AUTOMATION, INNOVATION AND TECHNOLOGY

- Implemented **Logistics ES** at all inpatient facilities
- New Epic Go-Lives in **London, Mercy, Indian River** hospitals
- Installed a **Parata robot** at Euclid Avenue Outpatient Pharmacy
- Indian River implemented a **daily cart fill** that resulted in **29% decrease** in medication messages sent to pharmacy in 2022
- APOTECAs expansion to Regional Hospitals: Hillcrest, Fairview Outpatient, Akron, Lutheran. **>13,000 compounds** per month go through the APOTECA gravimetric system across enterprise to complete **500,000 product preparations**



CONTINUOUS IMPROVEMENT INITIATIVES

- Hillcrest updated [three carousel medication storage units](#) and implemented a [Wet Cadet](#) for repackaging of non-sterile liquid medications
- Taussig Cancer Center expanded its Oral Chemotherapy Repository to [75+](#) specialty/supportive care medications
- Implemented a [carboplatin dose calculator](#) to improve safety in ordering of chemotherapy and standardized into Beacon across disease state areas
- Lutheran increased overall PharmacyKeeper compliance and documentation of activities completed on time by [10%](#) and streamlined activities by [66%](#) by standardizing metrics and increasing visual management
- Main Campus Anticoagulation Clinics showed pharmacist management increased Time in Therapeutic Range (TTR) from [26.8% to 44%](#)
- Implemented [G6PD, DPYD, and UGT1A1](#) pharmacogenomics testing
- Marymount strengthened C. difficile algorithm and increased appropriate testing by [82%](#)
- Medina remodeled sterile compounding area, receiving area, front window, office spaces, and break room
- Avon expanded [emergency services coverage](#) with a second ED pharmacist
- Managed [369](#) drug shortages annually and [10 to 20](#) drug recalls per month
- Expanded pharmacy driven Prior Authorization Program from [500/month](#) to [> 2000/month](#) through the Ohio Department of Medicaid and Refill Authorization Program across our Ohio network
- Pharmacy caregiver led the charge in [eradicating Hepatitis C](#) through the Ohio Hepatitis Academic Mentorship Program (OH-HAMP) 
- Launched [research project RedCap database](#) and research mentorship program
- Specialty Pharmacy expanded specialty footprint to [10](#) states

- Investigational Drug Services Pharmacy has committed to go paper-minimal and has saved [\\$8,000](#) annually 
- Launched pharmacist-led [Travel Medicine Clinic](#) including decentralized vaccine and medication delivery services
- Formalized [ED culture callback process](#) for periodic review of Therapeutic Guides and designated process for quality assessment
- Lutheran completed [High-risk BPA workflow](#) implementation

COVID-19/MONKEYPOX TREATMENT AND PREVENTION

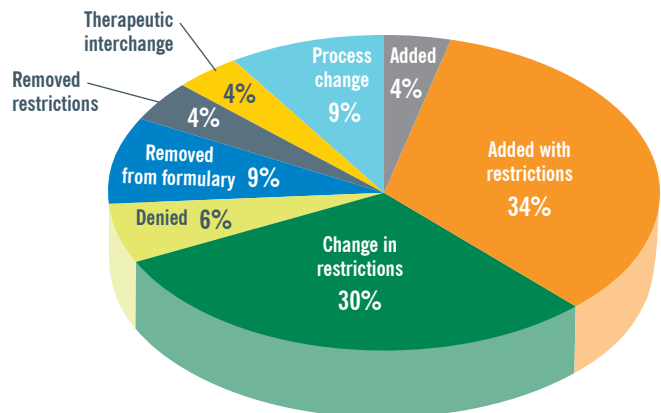
- COVID-19 Infusion Clinic supported [> 800 treatment infusions](#) and [> 200 prophylaxis infusions](#) for high risk patients
- New Monkeypox Therapeutic Guide and workflow incorporated into ED culture callbacks

EDUCATION AND TRAINING

- Indian River welcomed the first [PGY-1 Pharmacy Practice Resident](#)
- [Internal Medicine PGY-2 Residency](#) established at Main Campus
- [Specialty PGY-1 program](#) established at Beachwood Campus
- Created the first Cleveland Clinic [ACPE-accredited Continuing Education program](#) in partnership with Cleveland Clinic Continuing Education and offered 4 accredited pharmacist CE programs

2022 CC Medical Staff Adult P&T Committee Actions

(N=111)



clevelandclinic.org/pharmacy