

BAPTIST HEALTH SOUTH FLORIDA





Oncology Investigational Drug Services (IDS)

Advancement of Quality and Efficiency Initiatives

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Presentation Objectives

1

Define IDS and describe individual site practice models.

2

Describe the role and function of research pharmacists at each site.

3

Describe how research pharmacists support patient enrollment, eligibility review, and Cycle 1 Day 1 dispensation.

4

Describe processes and/or resources implemented at sites to support research between central and satellite locations.

The Investigational Drug Service is the institution's resource for investigational medication management and accountability, regulatory compliance, financial services, and any pharmacy-related services to support clinical trials protocols.

Miami Cancer Institute (MCI) Investigational Drug Service



MCI Pharmacy: Ambulatory (primary) + Inpatient

Research patients seen across 1 inpatient and 3 outpatient locations

Office of Clinical Research

- 193 Therapeutic Trials
- 52 Non-Therapeutic Trials
- 73 Retrospective Studies

MCI IDS Pharmacy Staffing

- Director + Manager
- IDS Supervisor
- 4 Research Pharmacists
- 2 Research Technicians



H. Lee Moffitt Cancer Center & Research Institute





- NCI Designated Inpatient Hospital + Ambulatory
- ~ 250 beds + 3 Ambulatory Satellite Campuses
- Surgical Hospital (July 2023)
- Dedicated IDS: MCC + MKC Satellite



• 400 + studies (oncology)



- Pharmacy Practice Model clinical/operations
- Staffing
 - Manager
 - Supervisor
 - 7 IDS Clinical Pharmacists
 - 4 IDS Clinical Specialists
 - 5 Pharmacy Technician Specialists
 - 1 Purchasing Agent



University of Miami Hospital and Clinics (UMHC) IDS Pharmacy Overview

UHMC: Hospital and Non-Hospital Locations

 3 Hospital Locations + 9 Sylvester Comprehensive Satellite Sites

IDS Pharmacy Workload

- Current Active Protocols: 500+
- Current Active Drugs: 1291 inventory line items

IDS Staffing Model

- Pharmacy Director
- 5 Clinical Pharmacists
- 7 Full-time + 2 Per Diem Research Pharmacists
- 7 Pharmacy Technicians







Sylvester Comprehensive Cancer Center



Bascom Palmer
Eye Institute









What are the roles and functions of research pharmacists?

UHMC IDS Pharmacy Overview

New protocol Protocol training Protocol C

notification from study team

Protocol reviewed for feasibility & assigned a Lead Pharmacist

Protocol review & EDAS / EMR / Datasheet built by Lead Pharmacist

Protocol Orders Applied by Provider

rolled out to all staff

via EDAS

Protocol Orders
Reviewed by IDS
Clinical Pharmacist

Protocol Orders Released by RN

Protocol Orders
Verified by IDS
Pharmacist

/ SOC meds dispensed by Main Rx Monitor Visits Conducted with IDS RPTs

Audits Conducted with IDS RPTs and Pharmacists

Close Out Visits Conducted by IDS RPTs



UHMC IDS Pharmacy Overview

General Support Services:



H. Lee Moffitt Cancer Center - IDS Staff Roles



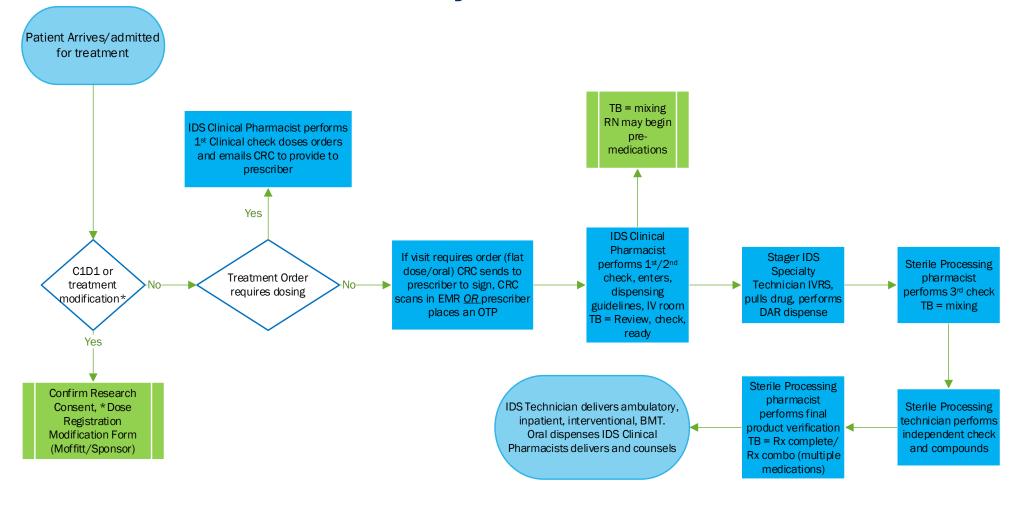
MCI IDS Pharmacy Services



How do research pharmacists support patient enrollment, eligibility review, and Cycle 1 Day 1 dispensation?

H. Lee Moffitt Ambulatory Research Patient Workflow







H. Lee Moffitt IDS Treatment Day Preparation



Enrollment

New patients identified through prep report Sample IDS New Subject Prep Checklist:

- **☑**Informed Consent
- **☑**Eligibility Review
- **☑**Current Medication Review
- ☑ Research Treatment Order
- ☑Confirm sufficient inventory
- **☑**Verify authorized prescriber
- ✓ Verify arm / dose level assignment

Medication List Review

Current medication list against protocol exclusion & prohibited medication sections Identify protocol DDI risks
Prohibited vs. Monitoring

Inventory Management

Complete 7-10 days out Verify and place order



CRU IDS Daily Prep Report

(Clinical Research Unit)

Run Time: 8/8/2022 3:41:33 PM Appt Date: 8/15/2022 to 8/15/2022

Appointment \$	Appointment \$	MRN ;	Patient Name 💠	Appointmen \$	MCC Protocol	\$ Study Drug Name \$	CTC Name \$	Orders \$	Labels \$	Inventory In 💠	IVRS \$	Informed \$	Dose \$	Pharmacy Comments – 💠
Date	Time			t Type	#/Cycle/Day					Stock and In		Consent	Registration	Free Text
										Date			Form	

UHMC IDS Pharmacy Overview

Clinical Pharmacist Role:

Patient Enrollment & Screening Eligibility Reviews

- Review concomitant medications for potential prohibited therapies, drug-drug interactions, prior therapies and appropriate wash-out periods
- Provide clinical recommendations for alternatives to prohibited therapies and drug interactions
- Clinical laboratory value review for assessment of proper organ function
- Review of inclusion/exclusion criteria

Prior to Treatment Start

- Prior to C1D1: Add and review treatment plans, confirm dosing/scheduling, provide supportive care recommendations (i.e., hydrations / antihyperuricemics for Tumor Lysis Syndrome, anticoagulation prophylaxis)
- Confirm adequate supply of IP available in stock
- Ensure IDS staff have completed required protocol training

Cycle 1 Day 1

- Clinical laboratory value review for dosing criteria
- Provide education to study team/nursing staff/IDS pharmacists/patients





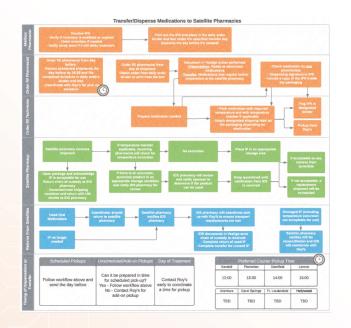


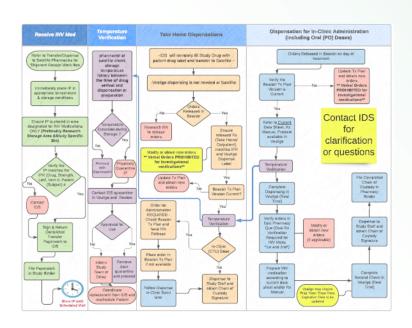
What processes and/or resources are available to support research between central and satellite locations?

Investigational Drug Services (IDS) Pharmacy Overview

Sylvester Satellite distribution workflow:

- Centralized IDS receives drug inventory and manages par/reorder levels for protocols
- IDS sends satellite pharmacies patient-specific inventory 1 business day prior as requested by study team
- Frontline pharmacists at satellites are trained to dispense in EDAS





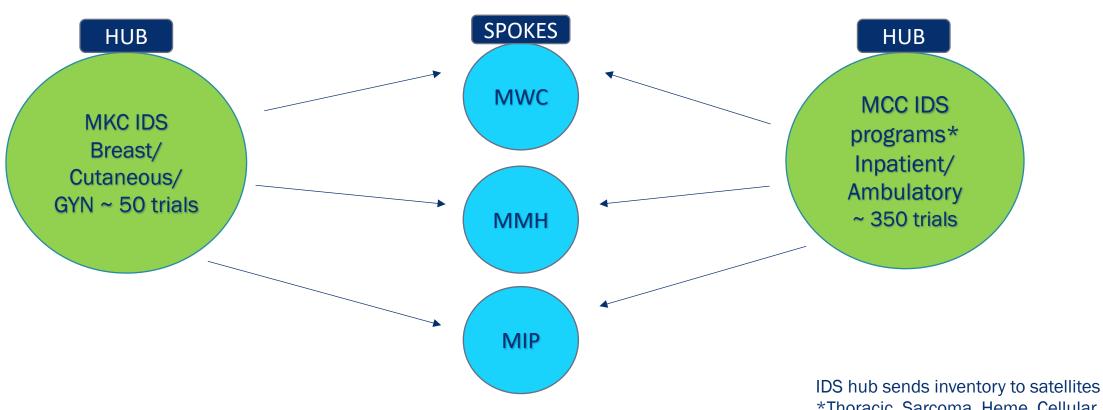


IDS – Hub and Spoke Distribution Model



Current State: 2 Program Specific Hubs

Remote Work: HUB to spoke and from home



*Thoracic, Sarcoma, Heme, Cellular Immunotherapy, H&N, GU, etc

Hub to Spoke

Main IDS to Satellites

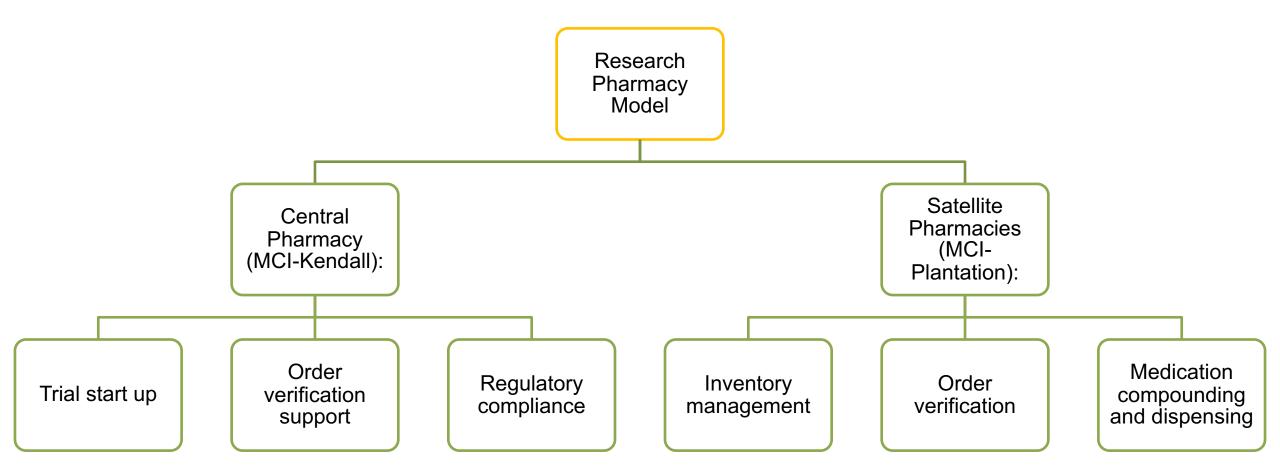
- Moffitt ambulatory centers
- Hybrid model
 - Hub IDS process satellite patients remotely
- Develop study specific guidelines
- Onsite non-IDS staff roles
- Input from front-line staff
- Ensure same quality checks
- Staff training requirements
- Perform trial "runs"



Storage	-MCC
Ordering/Procurement	ECOG: Pembrolizumab
	*SOC: CARBOplatin + PEMEtrexed (weight based)
Receiving	Control Pharmacy MCC ships to Satellite Pharmacy.
Prior to Day of Treatment	2 days before Day of Treatment
	CRC to provide orders to be dosed to SatelliteIDSPharmOrd@moffitt.org scanned subject line:
	MWC_MIP_20163 Sub 001 Research Med Order C3D1 Dated 10.26.2021
	ECOG trial allows drug order to be placed if a patient is in screening/registered, CRC to email
	Research Pharmacy
	IDS Prep:
	Confirm satellite has a SOC inventory, in prep report place estimated doses for SOC based
	on pt prior BSA/weight for CARBOplatin + PEMEtrexed
Drug transfer	IDS Prep Product (Pembrolizumab invest study supply)
(Prior to day of treatment	Vestigo immediate transfer from Control to Satellite
OR day of treatment)	Vestigo immediate transfer nom control to satemic
on day or deduncing	Moffitt Courier:
	Provide Interdepartmental Transfer Form
	Pembrolizumab: RF
	Key point: Transfer day before
	key point. Hallstel day before
	Satellite Staff:
	Upon receipt satellite staff to complete transfer form and email scanned to Satellite IDS Email and
	file in Satellite IDS binder
Day of treatment	Post Ep and labs resulting IDS remote doser to dose and email CRC to obtain signed treatment orders
bay of treatment	and scan to HIMS
If dose change required	and scan to mivis
and insufficient drug on	IV drug: IDS will remotely perform clinical review, order/DAR entry, fill out corresponding prep card
site: (CRC inform pt of ~45	and print/send labels to satellite. (*For split visits w/signed orders day before will send completed
min transit)	prep card/labels with study drug)
min transity	IDS will scan/send prep card to satellite. Satellite Rph pull corresponding vials and use the IPAD
	to take pictures (showing vial#/LOT/exp) and send to satelliteidspharmord@moffitt.org for IDS
	product check and DAR dispense
	· ·
	 Once IDS confirms product checked Satellite Rph provides prep card, study drug and labels to IV room for compounding
	Satellite tech/RPh will follow/sign prep card. Completed prep card scan/email satellite in the day of day (September 2015).
	satelliteidspharmord@moffitt.org to IDS and file in binder by end of day. (Control to create/
	maintain pt specific folder + satellite Key Point: Immediate transfer date/time prior to
	dispense date
	<u>Dispense</u>

MCI IDS Pharmacy Services





Audience Questions

Research Pharmacist Training Opportunities

01

On-the-job training (most common)

02

ASHP Investigational Drug Services
Certificate Program



Investigational Drug Service and Research PGY2 Pharmacy Residency

- 12-month post-graduate formal training program to build on Pharm.D. education and prepare competent pharmacist to provide care for research participants, who understand the regulatory requirements that govern clinical research, and develop leaders in pharmacy operations required to support clinical research
- ASHP accreditation available

MCI IDR PGY2 Pharmacy Residency



Dina Dumercy McHenry,

PharmD, MBA, BCOP-Program Director

Vivian Nguyen, PharmD, BCPS- Program Coordinator







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CANCER CENTER



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