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UNC Lineberger Cancer Network ADVANCED PRACTICE PROVIDER	February 15, 2023
Oral Chemoti Prescribing, Monitori Aimee Faso, Pi	ing, and Safety



Aimee Faso, PharmD, BCOP, CPP

Aimee Faso, PharmD, CPP BCOP, is a Clinical Pharmacist Practitioner (CPP) at the North Carolina Basnight Cancer Hospital (NCBCH) who works with the breast oncology team. After completing her Master's degree in physiological psychology at Ohio University, she worked in the pharmaceutical industry for 2 years. She then attended pharmacy school at the University of Florida in Gainesville, FL followed by a pharmacy practice residency at Dartmouth Hitchcock Medical Center.

Dr. Faso started working at the NCBCH in 2008 and in 2014 joined the outpatient breast oncology team. She is Adjuvant Faculty at the Eshelman School of Pharmacy where she teaches breast cancer treatment to pharmacy students and is a preceptor to pharmacy students and pharmacy residents. She is also a Clinical Assistant Professor in the School of Nursing where she teaches oncology pharmacology in the nurse practitioner program.

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Preceptor to pharmacy students and pharmacy residents.

UR PRESENT

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Clinical Assistant Professor in the School of Nursing where she teaches oncology pharmacology in the nurse practitioner program.

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PRESENTER

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- 2 In 2014, joined Lineberger's outpatient breast oncology team.
- Since 2008, Clinical Pharmacist Practitioner at the North Carolina Basnight Cancer Hospital.

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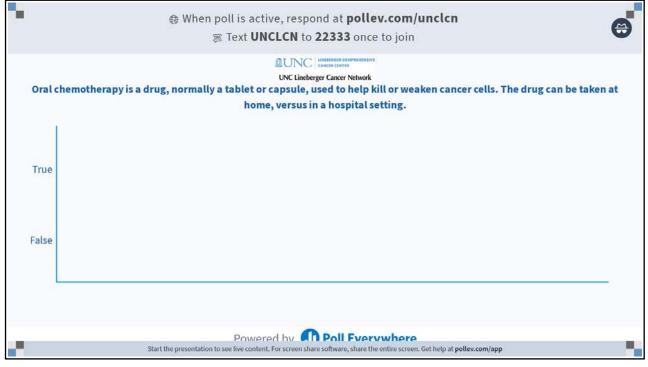
SCLOSURE

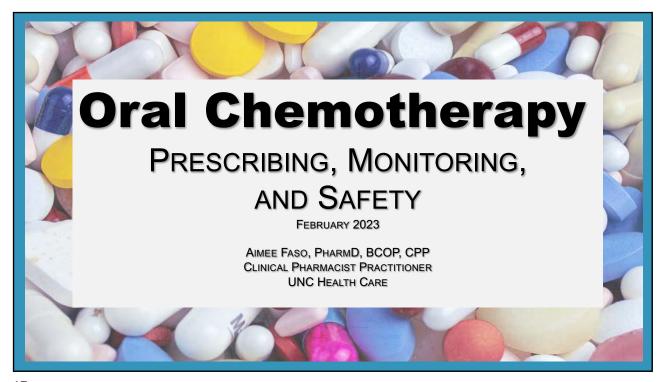
This activity has been planned and implemented under the sole supervision of the Course Director, William A. Wood, MD, MPH, in association with the UNC Office of Continuing Professional Development (CPD). The course director and CPD staff have no relevant financial relationships with ineligible companies as defined by the ACCME.

The University of North Carolina at Chapel Hill is accredited with distinction as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation.

A potential conflict of interest occurs when an individual has an opportunity to affect educational content about health-care products or services of a commercial interest with which he/she has a financial relationship. The speakers and planners of this learning activity have not disclosed any relevant financial relationships with any commercial interests pertaining to this activity.

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Oral Chemotherapy Objectives

- Describe the factors involved in safe prescribing practices of oral chemotherapy
- Review how to appropriately monitor patients while on oral chemotherapy
- Discuss the safe handling, storage and disposal of oral chemotherapy



Oral chemotherapy

- Oral chemotherapy includes medications taken by mouth that are cytotoxic or target proteins, pathways or receptors that are involved with cancer
- Use of oral chemotherapy has been steadily increasing
 - 18 novel oral chemotherapies have been approved from 2020 to December 2022
 - Estimated that 25-30% of chemotherapy medications in the development pipeline will be oral

New Drugs at FDA: CDER's New Molecular Entities and New Therapeutic Biological Products. https://www.fda.gov/drugs/development-approval-process-drugs/new-drugs-fda-cders-new-molecular-entities-and-new-therapeutic-biological-products. Accessed December 8, 2022

Hematology/Oncology Pharmacy Association (HOPA). Oral chemotherapy issue brief. www.hoparx.org/images/hopa/advocacy/lssue-Briefs/HOPA_Oral_Chemotherapy_Issue_Brief.pdf.

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Shifts the care of patients from the provider to the patient

Benefits

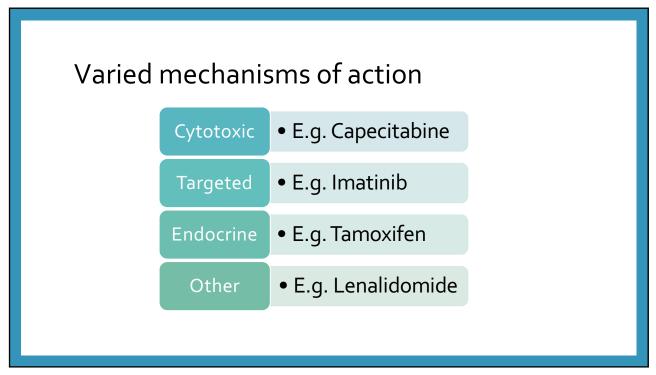
- Patient convenience
- Patient empowerment
- Reduced burden of care
- Efficacious
- · Reduced toxicity?

Concerns

- Adherence
- Safety
- Proper storage/handling
- Monitoring
- Cost

Weingart SN, Toro J, Spencer J, et al: Medication errors involving oral chemotherapy. Cancer 116:2455-2464, 2010 Weingart SN, et al. NCCN Task Force: Oral Chemotherapy. J Natl Comp Canc Netw 2008;6 Suppl 3:S1-14.

use
Imatinib, nilotinib, dasatinib, bosuitnib
Sunitinib, pazopanib, cabozantinib, axitnib
Imatinib, dasatinib (along with cytotoxic chemotherapy)
Vemurafenib/cobimetinib, dabrafenib/trametinib
Crizotinib, alectinib, ceritinib
Thalidomide, lenalidomide containing regimens
Erlotinib, afatinib, osimertinib, gefitnib
Abiraterone, enzalutamide, apalutamide
Tucatinib, capecitabine, ribociclib
Capecitabine, regorafenib, trifluridine + tipiracil







Safe prescribing at the institutional level

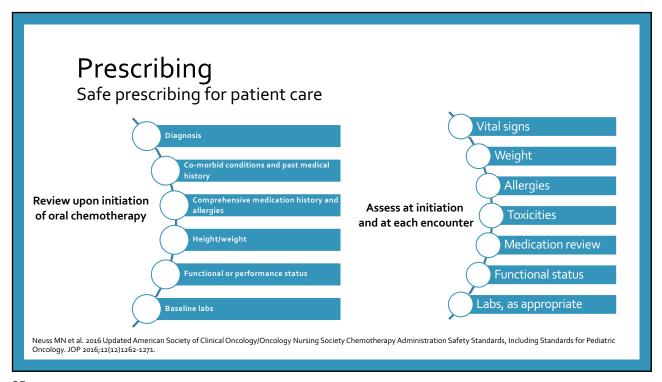
Development of institutional policies and procedures

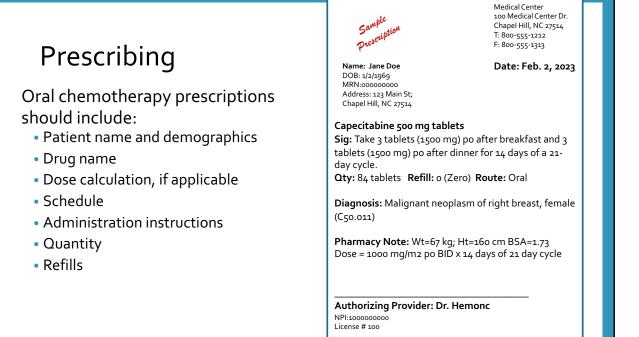
Standardized ordering practices

Standardized patient monitoring

Standardized symptom management

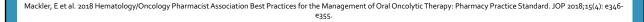
Consistent documentation





Patient education

- Patients should be provided education prior to initiation of oral chemotherapy
- Best to use standardized teaching materials
- Should be suitable for patient's health literacy and language
- Can clarify patient misconceptions
- Will need reinforcement throughout treatment period





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Patient education Diagnosis Goals of treatment Administration Duration Missed doses Monitoring and drug-food interactions Self-management strategies When to seek medical attention Neuss MN et al. 2016 Updated American Society of Clinical Oncology/Oncology Nursing Society Chemotherapy Administration Safety Standards, Including Standards for Pediatric Oncology. JOP 2016;12(12): 216-1217.

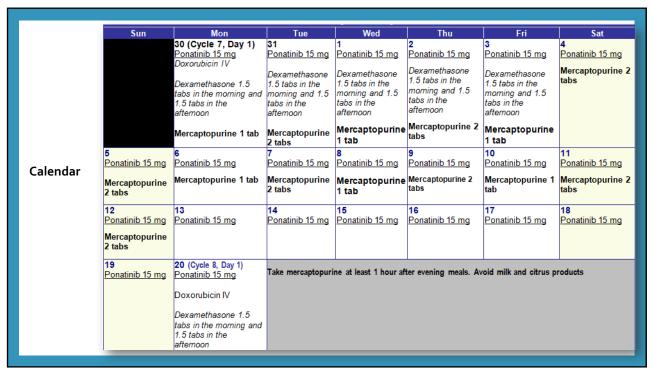
Patient education

Should also include

- Written care plan
- Specific administration instructions

Morning	Evening
7 am - Lapatinib (Tykerb)	
8 am - Breakfast	8 pm - Dinner
8:30 am - Capecitabine (Xeloda)	8:30 pm - Capecitabine (Xeloda)

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Patient education



Education should include family members, caregivers or others



Patients should be encouraged to write down questions and answers

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Patient education resources

- Website resources that provide handouts specifically for patients
 - Oncolink (https://www.oncolink.org/)
 - Chemocare (https://chemocare.com/)
 - Oral Chemotherapy Education (https://www.oralchemoedsheets.com/)
- Package insert
- Tertiary drug information databases
 - Lexi-Comp, UpToDate®, Facts and Comparisons, Micromedex
 - www.drugs.com/monograph
 - Free website that obtains drug information from multiple drug information databases including Micromedex and American Society of Health-System Pharmacists

Drug interactions

- Oral chemotherapy can interact with other medications, supplements, or foods
- Can result in increased toxicities or reduced efficacy
- Interactions may occur by multiple mechanisms
- Important to assess for interactions at each visit
- Information on interactions and their management may be limited

Segal EM et al. Oral chemotherapy food and drug interactions: A comprehensive review of the literature. J Oncol Pract 2015;10: e255-268 Rogala BD et al. Oral anticancer therapy: Management of drug interactions. J Oncol Pract 2019;15:81-90

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Pharmacokinetic drug interactions

- Effect the absorption, distribution, metabolism or excretion of another drug
- CYP 3A4 is the most common enzyme that metabolizes oral chemotherapy
 - Drugs that inhibit or induce CYP 3A4 can effect concentrations of drugs that are substrates of this enzyme

EXAMPLES

- Phenytoin (Dilantin®)
 - Strong 3A4 inducer
 - Can significantly decrease the concentrations of medications that are major substrates of CYP 3A4
- Nirmatrelvir/ritonavir (Paxlovid®)
 - Strong 3A4 inhibitor
 - Can significantly increase the concentration of major substrates of CYP 3A4

Segal EM et al. Oral chemotherapy food and drug interactions: A comprehensive review of the literature. J Oncol Pract 2015;10: e255-268 Rogala BD et al. Oral anticancer therapy: Management of drug interactions. J Oncol Pract 2019;15:81-90

EXAMPLE

Pharmacodynamic drug interactions

Lead to an alteration of pharmacologic effect, which may be additive, synergistic, or antagonistic

QTc prolongation

- Oral chemotherapy agents may prolong QTc and the addition of other drugs that have this side effect result in an additive risk
- Ribociclib (Kisqali ®) can cause QTc prolongation. Addition of ondansetron (Zofran ®) or citalopram (Celexa ®) can increase the risk of this adverse effect



Segal EM et al. Oral chemotherapy food and drug interactions: A comprehensive review of the literature. J Oncol Pract 2015;10: e255-268 Rogala BD et al. Oral anticancer therapy: Management of drug interactions. J Oncol Pract 2019;15:81-90

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EXAMPLES

Acid suppression therapy interactions

PPIs, H2 receptor antagonists, and antacids can effect the absorption of some oral chemotherapy

- Proton pump inhibitors
- Due to decreased absorption, PPIs are contraindicated with dasatinib, erlotinib, neratinib and pazopanib
- Histamine H2 receptor antagonists
 - Erlotinib, and nilotinib can be taken 10 hours after or 2 hours before taking a histamine H2receptor
- Antacids
 - Over-the-counter antacids should be administered2 hours before or after the administration of acalabrutinib, dasatinib, erlotinib, gefitinib, bosutinib, nilotinib, andponatinib, and 3 hours before neratinib

Segal EM et al. Oral chemotherapy food and drug interactions: A comprehensive review of the literature. J Oncol Pract 2015;10: e255-268 Rogala BD et al. Oral anticancer therapy: Management of drug interactions. J Oncol Pract 2019;15:81-90

EXAMPLE

Herbal products

- Herbal supplements have the potential to cause pharmacodynamic or pharmacokinetic interactions
- Drug-herb interactions can be difficult to evaluate due to limited or lack of data

St. John's Wort

- CYP 3A4 inducer
- Can decrease the concentration of major substrates of CYP 3A4 and should be avoided

Presented on February 15, 2023



Segal EM et al. Oral chemotherapy food and drug interactions: A comprehensive review of the literature. J Oncol Pract 2015;10: e255-268 Rogala BD et al. Oral anticancer therapy: Management of drug interactions. J Oncol Pract 2019;15:81-90

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Food interactions

- Food can impair or improve the absorption of some oral chemotherapies
- Each drug has specific recommendations if it should be taken with food, without food or with/without food.



EXAMPLES

- Empty stomach
 - Lapatinib should be taken 1 hour before or 1 hour after a meal
- With food
 - Capecitabine should be taken within 30 minutes of a meal
 - Regorafenib should be taken with a low fat breakfast
- Grapefruit
 - Grapefruit is a 3A4 inhibitor and should be avoided with oral chemotherapy that are substrates of 3A4

Segal EM et al. Oral chemotherapy food and drug interactions: A comprehensive review of the literature. J Oncol Pract 2015;10: e255-268
Rogala BD et al. Oral anticancer therapy: Management of drug interactions. J Oncol Pract

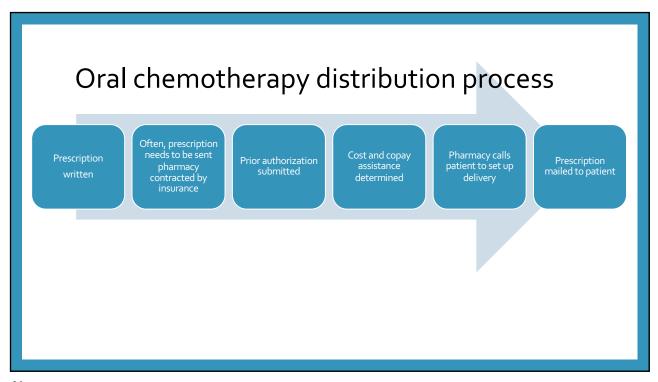
Drug interaction resources

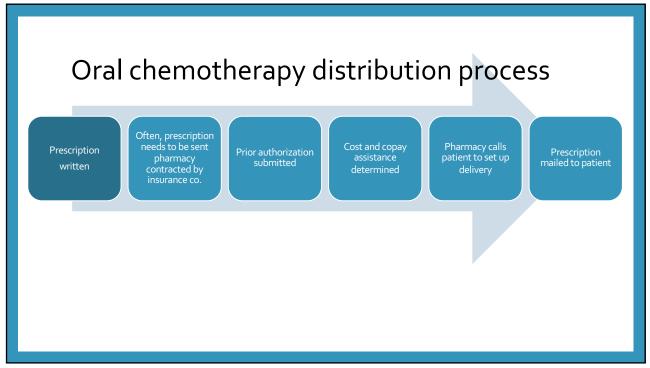
- Manufacturer package insert
- Tertiary drug information databases
 - Lexi-Comp, UpToDate®, Facts and Comparisons, Micromedex
 - www.drugs.com/drug_interactions.html
- Herb information
 - Natural Medicines, available through institutional library
 - www.naturalmedicines.therapeuticresearch.com
 - Memorial Sloan Kettering Cancer Center website About Herbs, Botanicals & Other Products
 - www.mskcc.org/cancer-care/diagnosis-treatment/symptom-management/integrative-medicine/herbs
 - National Center for Complimentary and Integrative Health
 - www.nccih.nih.gov

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- Most oral chemotherapy must be dispensed by a specialty pharmacy
- Provide medications that treat rare or complex diseases and/or are expensive
- Most specialty pharmacies are mail order





Oral chemotherapy distribution process

Prescription written

Often, prescription needs to be sent to pharmacy contracted by insurance co.

Prior authorizatior submitted Cost and copay assistance determined

Pharmacy calls patient to set up delivery

Prescription mailed to patient

- · Many oral chemotherapy drugs are only available through specialty pharmacies
- Often, insurance companies have contracts with 1 or more specialty pharmacies
- Some drugs have limited distribution
 - Only available from specific specialty pharmacies
 - Includes drugs that have special storage, administration, and/or monitoring
 - · Examples include lenalidomide, pomalidomide, and thalidomide

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Oral chemotherapy distribution process

Prescription written

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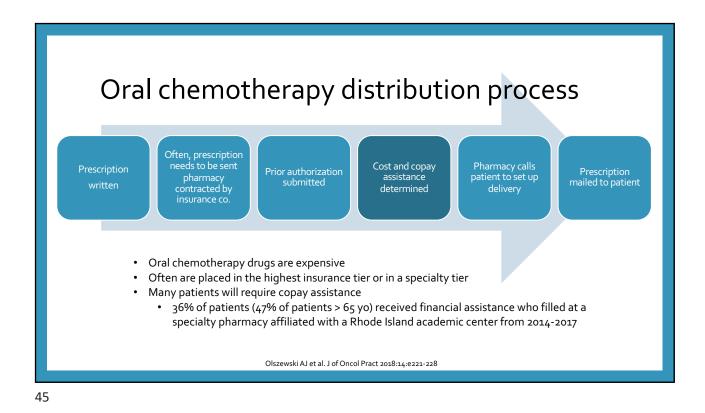
Prior authorization submitted

Cost and copay assistance determined

Pharmacy calls patient to set up delivery

Prescription mailed to patient

- Prior authorizations can be submitted to insurance companies by multiple methods
 - Insurance on-line portal
 - · Call insurance company
 - CoverMyMeds.com
- Turn-around time can take 24 to 120 hours
- Denials can occur when prescribing medications off-label or not per the insurance companies' criteria



Oral chemotherapy distribution process

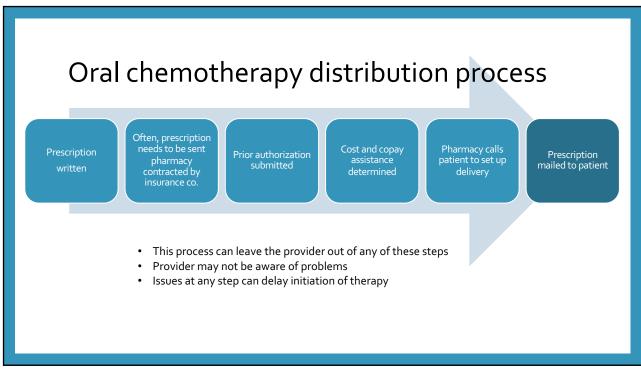
Prescription written

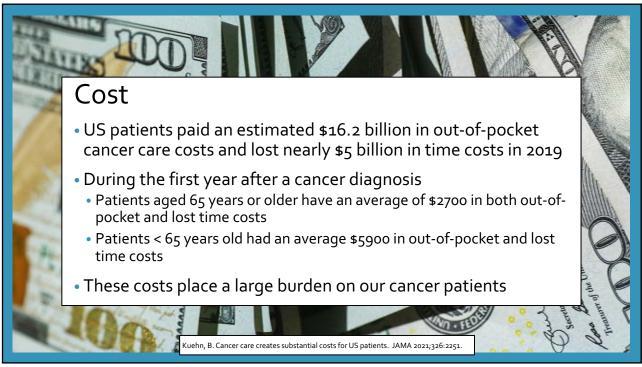
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Resources to help with drug costs

Uninsured

 Manufacturer assistance programs

Commercial Insurance

- Copay cardsCharity
- Charity grants
- Manufacturer assistance programs for under-insured

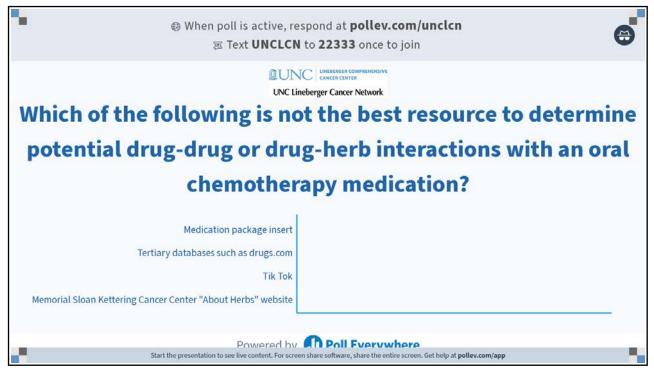
Government insurance

- Medicare Part D Grants
- Manufacturer assistance programs

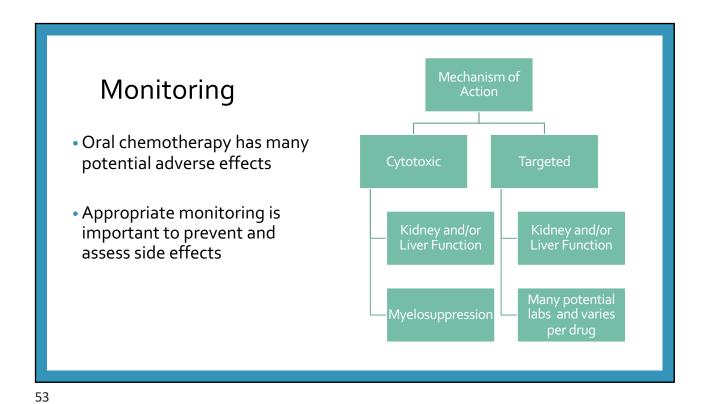
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Resources to help with cost

- Charity Grants
 - Patient Access Network Foundation www.panfoundation.org
 - Healthwell https://www.healthwellfoundation.org/
 - Patient Advocate Foundation https://copays.org/
- NeedyMeds <u>www.needymeds.org</u>
- 1 of US 1 of us.org
- Leukemia Lymphoma Society www.lls.org
- Social Security Compassionate Allowance www.socialsecurity.gov/compassionateallowances/
- Pharmacists







Monitoring Potential toxicities of targeted therapy Dermatologic Cardiovascular Ophthalmologic Metabolic/Endocrine Targeted therapy adverse Pulmonary effects will depend on the Gastrointestinal drugs "on" targets and Musculoskeletal "off" targets Neurologic Hematologic Hepatic Renal Other

Potential labs/tests to monitor

The second secon

- CBC/diff
- LFTs
- SCr
- Electrolytes
- Potassium/magnesium
- Lipid panel and glucose
- Lipase/amylase
- Uric acid

- CPK
- TSH
- Pregnancy
- ECG
- ECHO
- Blood pressure

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Where to find required lab testing and intervals

Package insert

Imatinib (Gleevec®)

-WARNINGS AND PRECAUTIONS

- Edema and severe fluid retention have occurred. Weigh patients regularly and manage unexpected rapid weight gain by drug interruption and diuretics. (5.1, 6.1)
- Cytopenias, particularly anemia, neutropenia, and thrombocytopenia, have
 occurred. Manage with dose reduction, dose interruption, or
 discontinuation of treatment. Perform complete blood counts weekly for
 the first month, biweekly for the second month, and periodically thereafter.
 (5.2)
- Severe congestive heart failure and left ventricular dysfunction have been reported, particularly in patients with comorbidities and risk factors.
 Monitor and treat patients with cardiac disease or risk factors for cardiac failure. (5.3)
- Severe hepatotoxicity, including fatalities may occur. Assess liver function before initiation of treatment and monthly thereafter or as clinically indicated. Monitor liver function when combined with chemotherapy known to be associated with liver dysfunction. (5.4)
- Grade 3/4 hemorrhage has been reported in clinical studies in patients with newly diagnosed CML and with GIST. GI tumor sites may be the source of GI bleeds in GIST. (5.5)

Tertiary drug information databases

- Lexi-Comp
- UpToDate®
- Facts and Comparisons
- Micromedex
- Drugs.com
- DailyMed

https://www.accessdata.fda.gov/drugsatfda_docs/label/2016/021588s047lbl.pdf

Example: Imatinib

Pretreatment Screening

- Complete blood cell count (CBC)
- Baseline liver and renal function
- Consider performing an echocardiogram and determining serum troponin concentrations in patients with hypereosinophilic syndrome (HES) and/or chronic eosinophilic leukemia (CEL), and in patients with myelodysplastic/myeloproliferative diseases or aggressive systemic mastocytosis associated with high eosinophil levels. If results of the echocardiogram or serum troponin concentrations are abnormal, consider prophylactic use of systemic corticosteroids.
- · Verify pregnancy status in females of reproductive potential

Patient Monitoring

- Monitor for signs or symptoms of fluid retention (e.g., weight gain) regularly during therapy
- Monitor CBC weekly for the first month of therapy, every other week during the second month, and periodically (e.g., every 2–3 months) thereafter as clinically indicated
- Carefully monitor patients with cardiac disease or risk factors for cardiac disease for signs and symptoms of cardiac toxicity or renal failure
- Carefully monitor patients with a history of renal failure for signs and symptoms of cardiac toxicity or renal failure
- Monitor liver function monthly or as clinically indicated during therapy
- Monitor renal function during therapy
- · Monitor serum TSH concentrations in patients receiving levothyroxine replacement therapy following thyroidectomy
- In pediatric patients, monitor bone growth and development
- Monitor patients with high tumor burden or those with a high proliferative rate for TLS.

 https://www.drugs.com/monograph/imatinib.html

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		Monito	ring CML TK	İls		
	Imatinib	Nilotinib	Dasatinib	Bosutinib	Ponatinib	Asciminib
СВС	X (weekly x1 mo→biweekly x1 mo→periodically)	X (biweekly x2mo → monthly)	X (weekly x12 weeks → q3 months)	X (weekly x1mo→ monthly)	X (biweekly x3mo → monthly)	X (biweekly x3mo → monthly)
LFTs	X (baseline→ monthly)	X (baseline→ monthly)	X (baseline → periodically)	X (monthly $x_3 \rightarrow$ periodically)	X (baseline → monthly)	
SCr	X (baseline \rightarrow periodically)			X (baseline → periodically)		
Electrolytes	X (baseline \rightarrow periodically)	X (baseline → periodically)	X (baseline → periodically)		X (baseline \rightarrow periodically)	
Lipid profile & glucose		X (baseline \rightarrow Periodically)				
Lipase & Amylase		X (baseline → monthly)			X (biweekly x2mo → monthly)	X (baseline \rightarrow monthly)
Uric Acid		X (baseline)			X (baseline)	
ECG		X (baseline \rightarrow periodically)	X (baseline → q3mo x2)			
Pregnancy	Χ	X	Х	Х	X	Χ

Monitoring CDK 4/6 Inhibitors			
	Palbociclib	Abemaciclib	Ribociclib
СВС	X (baseline, biweekly x2 mo, then as indicated)	X (baseline, biweekly x2mo → monthly x 2 mo, then as indicated)	X (baseline biweekly x2 mo → monthly x 4 mo, then as indicated)
LFTs		X (baseline, biweekly x2mo → monthly x 2 mo, then as indicated)	X (baseline biweekly x2 mo → monthly x4 mo, then as indicated)
SCr		X (baseline→ periodically)	
Electrolytes			X (baseline → monthly x 6, then as indicated)
ECG			X (baseline→ q2weeks x 2), then as indicated

Adherence

Definition:

"the degree or extent of conformity of the recommendations about day-today treatment by the provider with respect to timing, dosage, and frequency"

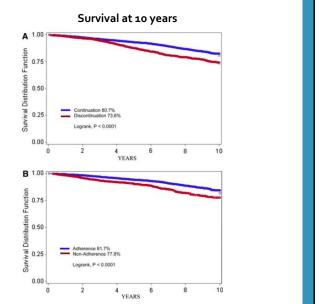
Optimal adherence and persistence occurs when a patient follows his/her prescribed treatment regimen

Poor patient outcomes Increased toxicities Increased toxicities

Cramer JA et al. Medication compliance and persistence terminology and definitions. Value Health 2008:11:44-47 Ruddy, K et al. Patient adherence and persistence with oral anticancer treatement. CA Cancer J Clin 2009;59:56-66

Consequences of non-adherence

- Women diagnosed with hormone-sensitive breast cancer prescribed adjuvant endocrine therapy for 5 years
 - N = 8769 women
 - 31.5% discontinued medication early
 - Of the 6000 women who continued the medication for the full time, 28% took < 80% of doses
 - Discontinuation and adherence were independent predictors of mortality

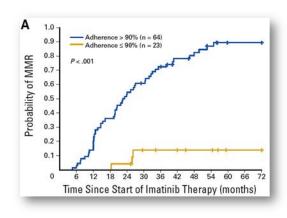


Hershman DL et al. Early discontinuation and non-adherence to adjuvant hormonal therapy are associated with increased mortality in women with breast cancer. Breast Cancer Res. Treat. 2011;126:529-537.

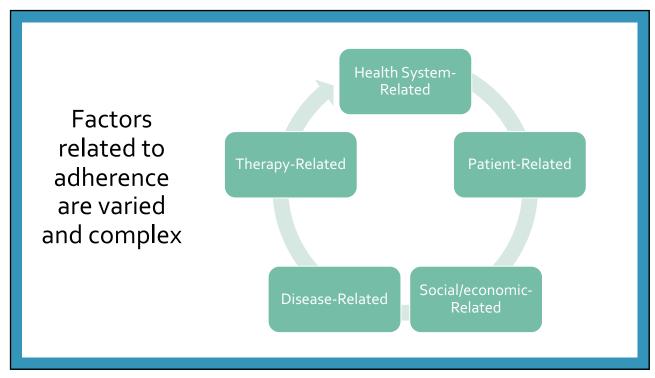
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Consequences of non-adherence

- Patients with CML on imatinib
 - Patients with adherence rate > 90% were associated with a major molecular response (MMR)
 - Probability of MMR in patients with adherence rate of > 90% = 93.7%
 - Probability of MMR in patients with adherence rate of ≤ 90% = 13.9%



Marin D et al. Adherence Is the Critical Factor for Achieving Molecular Responses in Patients With Chronic Myeloid LeukemiaWho Achieve Complete Cytogenetic Responses on Imatinib 2010 JCO 2010;28:2381-2388



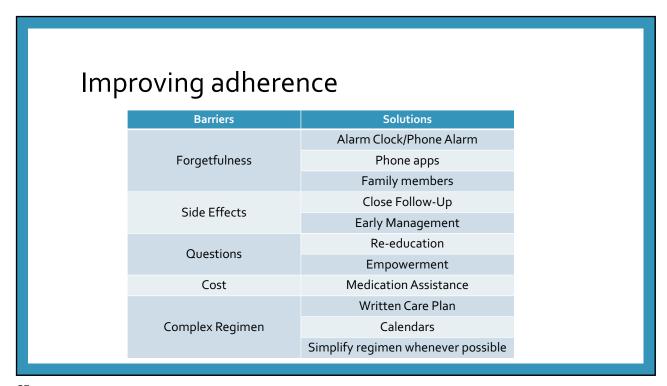
Adherence Assessment

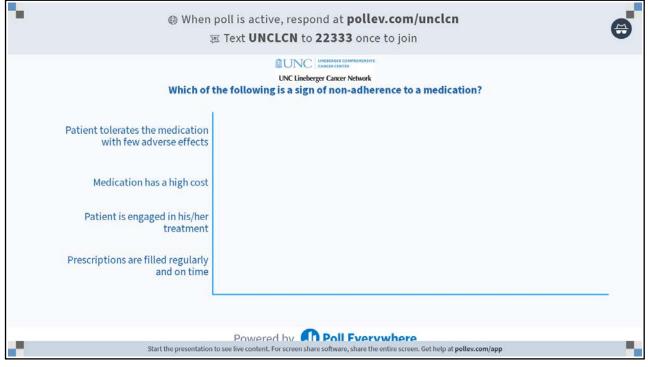
Ask

Since I last saw you, how many doses of your medication do you think you missed?

Look for signs/predictors of non-adherence

- Missed appointments
- Unfilled prescriptions
- Adverse effects
- High medication cost
- Lack of belief or understanding of treatment
- Psychological factors such as depression







Safe handling

Recommendations for health care providers

- Receive and maintain training on safe practices if the practitioner will come into contact with oral chemotherapy
- Follow institutional policies
- Follow guidelines related to oral chemotherapy

Goodin, Setal. Safe handling of Oral Chemtherapeutic agents in Clinical Practice: Recommendations from an International Pharmacy panel. JOP 2011;7(1): 712.



Safe handling

Recommendations for patients

- Understand handling and administration instructions
- Tablets/capsules should not be crushed, chewed, or cut
- Use gloves or tip tablets into a disposable medicine cup
- Wash hands thoroughly
- If able to place in a pill box, do not share the pill box with others
- Double flush or use a separate bathroom, if able

Goodin, S etal. Safe handling of Oral Chemterapeutic agents in Clinical Practice: Recommendations from an International Pharmacy panel. JOP 2011;7(1): 712.

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Safe storage



- Store in a safe place away from children and pets
- Store medications away from sunlight, humid bathrooms, or other areas that may have fluctuations in temperature
- Read labels some oral chemotherapy must be stored in original container (e.g. regorafenib) or refrigerated (e.g. oral etoposide, trametinib)
- If traveling, store in original, pharmacy-labelled container

https://www.ncoda.org/wp-content/uploads/2019/03/Safe-Handling-of-Oral-Chemo-1. Accessed 12/11/22

Safe disposal

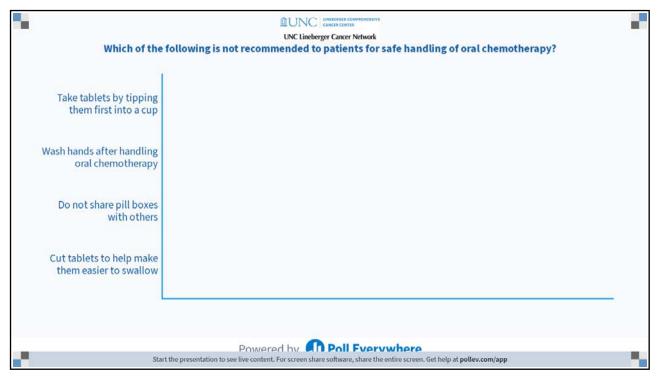
- Don't discard unused tablets/capsules down the toilet
- Dispose in local medication disposal sites or drop boxes
- May mix whole tablets with something unpalatable (e.g. coffee grounds) and place in a container with lid or double sealable storage bags prior to placing in regular trash
- Celgene provides packaging so patients may return unused lenalidomide, pomalidomide, and thalidomide

https://www.ncoda.org/wp-content/uploads/2019/03/Safe-Handling-of-Oral-Chemo-1. Accessed 12/11/22

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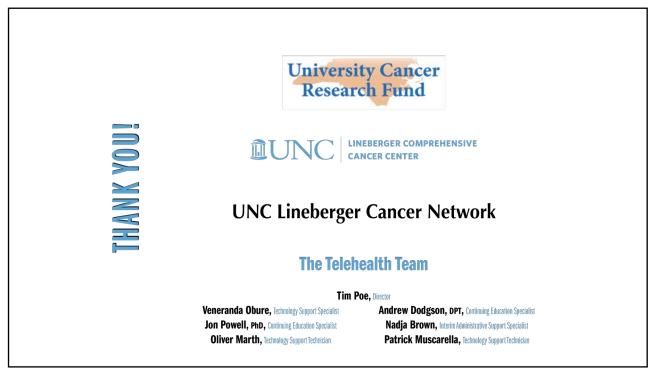
Oral chemotherapy resources

- Hematology/Oncology Pharmacy Association (HOPA)
 - Oral chemotherapy resources www.hoparx.org/images/hopa/resource-library/guidelinesstandards/Oral_Chemo_Resources_Web_Outline.pdf
- Oncology Nursing Society
 - Oral Anticancer Medication Toolkit <u>www.ons.org/clinical-practice-resources/oral-adherence-toolkit</u>
- Drug.com
 - Drug monographs <u>www.drugs.com/</u>
- Daily Med
 - Drúg monographs www.dailymed.nlm.nih.gov/dailymed
- Pharmacists









PCOMING LIVE WEBINARS

PATIENT CENTERED CARE Webbinar March 8

12:00 PM

Integrating the Caregiver as a Member of the Multidisciplinary Care Team Erin Kent, PhD, MSc Loretta Muss, RN, BA

ADVANCED PRACTICE PROVIDER

March 15
4:00 PM

What Is Cancer Rehabilitation and How Can it Help My Patients? Sasha E. Knowlton, MD

RESEARCH TO PRACTICE Webinar March 22

12:00 PM

Clinical Updates in Breast Oncology Emily Ray, MD, MPH

Complete details on upcoming LIVE webinars: learn.unclcn.org/live-webinars

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Spread the Word

VE CCO WEBINARS

UNC Lineberger Cancer Network
NORTH CAROLINA
COMMUNITY COLLEGE WEGinar
ONCOLOGY WEBINARS

February 21 4:00 PM

Caring for Patients with Head and Neck Cancers

Trevor Hackman, MD, FACS **Catherine J. Lumley,** MD

March 21 4:00 PM

Caring for Patients with GI Cancers

Melanie N. Allard, DNP, APRN, FNP-BC, CCRN

For a complete listing and details on coming events visit: learn.unclcn.org/cco

SELF-PACED, ONLINE COURSES



Occupational Therapy for Cancer Survivors Farrell Wiggins, MS, OTR/L Alexis Petteway, MS, OTR/L



Acute Myeloid Leukemia with Myelodysplasia-Related Changes (AML-MRC): An Evolving Poor-risk Subgroup of High Unmet Need Joshua F. Zeidner, MD



Providing LGBTQ Friendly Care in Oncology Patti Morfeld, RN, BSN, OCN

Today's webinar will be available in **March** 2023 as a **FREE**, Self-Paced, Online Course

Complete details on Self-Paced Online Courses: learn.unclcn.org/spoc

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THANK YOU FOR PARTICIPATING

UNC Lineberger Cancer Network

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