

Objectives

- +Recognize the impact of oral chemotherapy
- +Discuss the complexity of evaluating toxicities in combination treatment regimens.
- +Formulate a complete plan to assess patients for toxicities on oral chemotherapy.
- +Discriminate between symptoms of disease and drug toxicities.
- +Review importance of patient education in adherence.

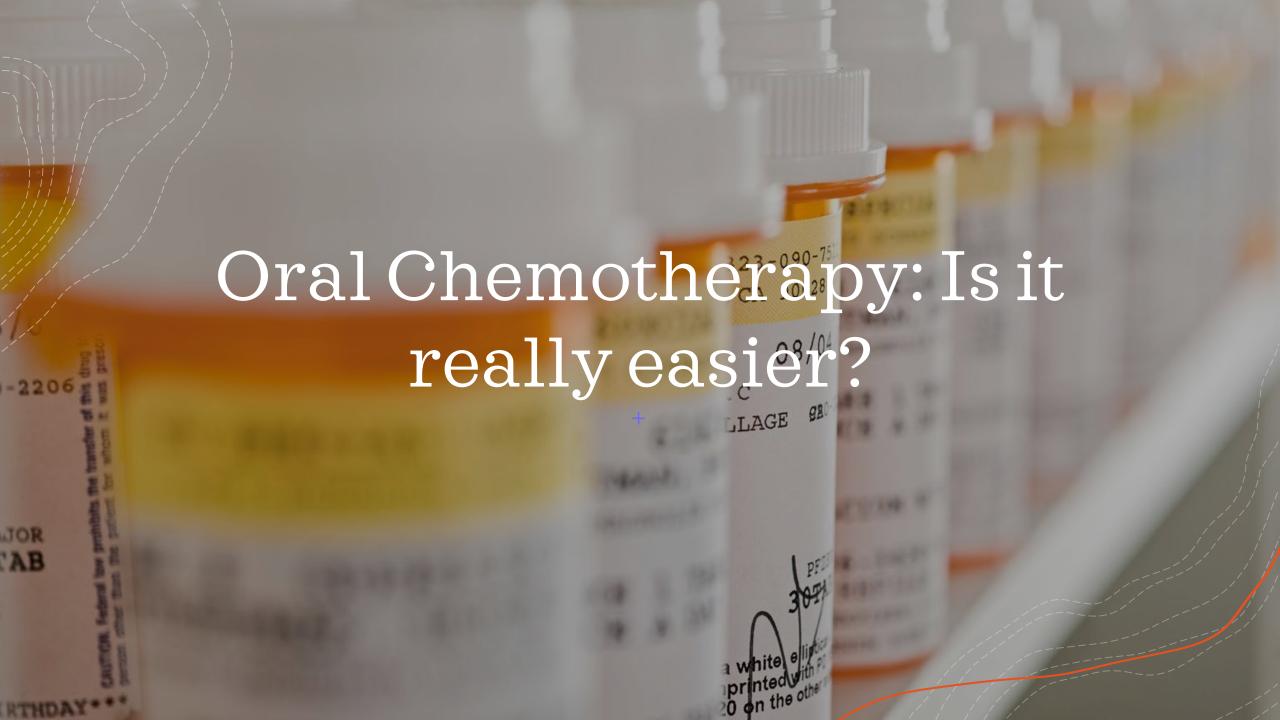
Importance of Oral Chemotherapy

- 4Oral chemotherapy represents an important addition to cancer treatment.
- +Targeted therapies have shifted treatments away form traditional chemotherapy.
- +Oral oncolytics have added to the complexity of treatment and recognition of treatment related toxicities.
- +Approximately 25% of cancer patients are on some form of oral chemotherapy.
- +People 65 years or older is the fastest growing population in the US. By 2030 that age group will be >20% of the US population.

Evaluating Toxicities

- ★Complexity of treatment regimens
- #Importance of baseline: It is vital to have an accurate baseline
- +Use a comprehensive grading tool
 - + CTCAE (Common Terminology Criteria for Adverse Events)
 - + Always compare to baseline
- +Patients must have a plan to manage any potential toxicities.
- +Ongoing process
- +Open, honest atmosphere
- +Potential drug interactions

National Cancer Institute: Common Terminology Criteria for Adverse Events, version 5.0. Available athttps://ctep.cancer.gov/protocoldevelopment/electronic_applications/docs/ctcae_v5_quick_reference_8.5x11.pdf. Accessed December 2, 2022.



Laboratory Toxicities

- 4 Hematologic toxicities
 - + WBC
 - + Platelets
 - + Hemoglobin
- +Organ function
 - + Renal function
 - + Hepatic function
 - + Pancreatic function
- + Electrolytes
- +Blood sugar
- + Triglycerides/lipids

Cardiac Toxicities

- 4Understand patient's cardiac health history. Who manages cardiac issues?
- +Set up regular monitoring schedules depending on appropriate FDA recommendations.
- +Hypertension
- +Electrical issues:
 - + Monitor EKG
 - + Monitor electrolytes
- +Mechanical Issues:
 - + Echocardiograms



Gastrointestinal Toxicities

- **4**Nausea
- +Vomiting
- +Dyspepsia
- +Anorexia
- +Constipation
- +Diarrhea
- +Stomatitis

Andreyev HJN, Lalji A, Mohammed K, et al: The FOCCUS study: A prospective evaluation of the frequency, severity and treatable causes of gastrointestinal symptoms during and after chemotherapy. Support Care Cancer. 29:1443-1453, 2021.

Dermatologic Toxicities

- Paronychial issues
 - + Skin fissures
 - + Nail infections
 - + Hangnails
- + Rash
 - + Steven Johnson Syndrome
- + Acne form rash
- + Dry skin
- + Pruritis
- + Secondary malignancies
- + Alopecia

Ra, H.S., Shin, S.J., Kim, J.H., Lim, H., Cho, B.C. and Roh, M.R. (2013) The Impact of Dermatological Toxicities of Anti-Cancer Therapy on the Dermatological Quality of Life of Cancer Patients. The Journal of the European Academy of Dermatology and Venereology, 27, e53-e59.

Miscellaneous Toxicities

- - + Interstitial lung disease
 - + Pneumonitis
- + Tumor Lysis Syndrome
 - + Flu like symptoms
- + Functional toxicities
 - + Fatigue
 - + Arthralgias/myalgias
 - + Headaches
 - + Weakness
- + Hypersensitivity

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6783590/

Dangers of Oral Oncolytic Treatment

- + Some drugs can cause serious birth defects or harm to an unborn fetus.
- + REMS program
- + Reliable birth control is a MUST!!
- + Sperm banking
- + Ovarian preservation
- + Egg retrieval



Steroid Toxicities

- + Steroids are frequently used in the treatment regimens of many hematologic malignancies.
- + Muścle wasting
- + Skin changes
 - + Acne
 - + Thin skin
 - + Bruising
- + Delayed wound healing
- + Bone loss
- + Sleep Issues
- + Mood changes
 - + Anxiety
 - + Jitteriness
 - + Aggression
 - + Depression

https://www.mayoclinic.org>steroids https://www.hoafredericksburg.com>prednisolone

Adherence and Persistence

- +Patient education is vital.
- +Spend some time understanding the patient.
- +Set patients up for success
- +Education is a continual process
- +Importance of assessing for financial toxicity

Talens, A., Guilabert, M., Lumbreras, B., Aznar, M.T., & Lopez-Pintor, E. (2021)Medication experience and adherence to oral chemotherapy. A qualitative study of patients' and health professionals' perspectives. *International Journal of Environmental Research and Public Health*. 18(8), 4266. https://doi.org/10.3390/ijerph18084266

Financial Toxicity

- + NCCN recommends assessing each patient for financial toxicity.
- + Material consequences of treatment
 - + Out-of-pocket expenses
 - + Debt
 - + Decreased income
- + Explore various assistance options
 - + Pharmaceutical company programs
 - + Grants
 - + Other assistance programs



https://education.nccn.org/node/90902 https://www.cancer.gov/about-cancer/managing-care

