

Development of Systemic Breast/GI Chemotherapy Education Plans

Background

Personal

- Junior at Loyola University Chicago, studying Biology
- 2022 NM Pre-Medical Internship, Hematology & Medical Oncology Department

Internship Components

- Clinical-based research project in home department
- Weekly rotational clinical observation in different medical specialties.
- Biweekly lunch seminars on healthcare topics.

Research Project Background

- Patient Education is critical for patient empowerment, and also allows them to make informed decisions about their health.
- CURRENT educational materials are not concise nor patient-friendly¹.
- Providers are also forced to waste valuable time writing repetitive post-appt notes on educational notes.



Figure 1: The Warrenville Cancer Center entrance.

Research Project Aim

- Evaluate efficacy of current chemotherapy educational materials.
- Research breast/GI chemo guidelines + plans.
- Create revised systemic educational materials.

Methods

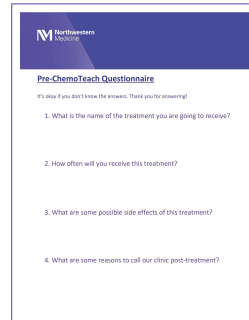


Figure 2: Pre-ChemoTeach Questionnaire. Created to assess patient knowledge.

1. Evaluate Efficacy of Current Patient Education Materials

- Created questionnaire to assess patient's knowledge before Chemo follow-up appointment. Pt has already received old educational materials.
- Compile data based on accuracy of answers, graph to assess efficacy of current materials.

2. Research breast/GI chemo guidelines + plans

- Utilized credible sources (e.g. NCCN, ChemoCare, etc) to research and compile vital information on over 30 chemotherapy regimens.

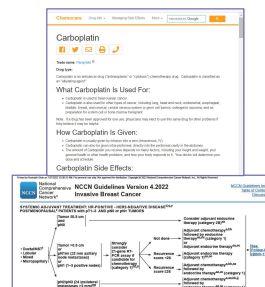


Figure 3 and 4: Screen prints of ChemoCare & NCCN.

3. Create revised systemic educational materials.

- Each plan includes information on each drug, common and rare side effects, infection risk, and treatment plan.
- Option for care providers to customize each material to be tailored to each patient's specific treatment

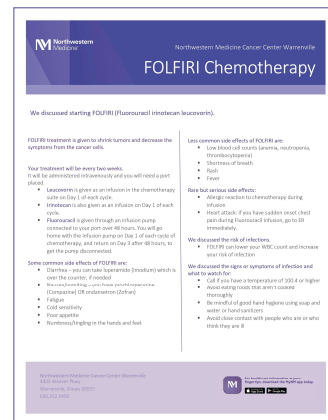


Figure 5: Revised Educational Material for FOLFIRI chemo.

Results

1. Patient Questions

- Question 1:** What is the name of your treatment?
Question 2: How often will you receive treatment?
Question 3: What are possible side effects?
Question 4: Reasons to call our clinic post-treatment?

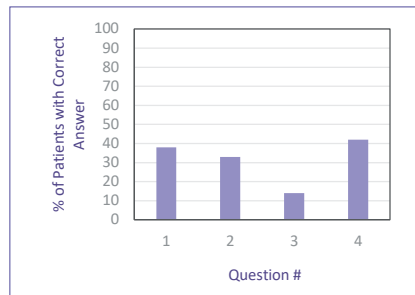


Figure 6: Patient Questionnaire Answers Data.

2. Revised Educational Materials

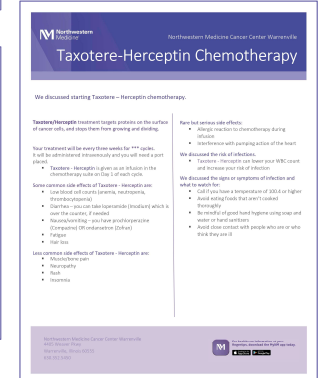


Figure 7: Revised Educational Material for Taxotere - Herceptin, a Breast chemotherapy.

Conclusions

Data: There is less than 45% accuracy in any question. Only 16% of patients know the side effects to their treatment. Although they are assessed prior to ChemoTeach appts., each patient has spoken to MD about treatment already. Solutions need to be implemented.

- These new, revised materials will also be included on MyChart, an online health info site, so patients can access info at any time.

Future: Assess the efficacy of revised materials by assessing patient's knowledge after these materials are given.

Reference

- Betschart P. Improving Patient Education Materials: A Practical Algorithm from Development to Validation. *Curr Urol*. doi: 10.1159/000499291.