

Patient-Reported Distress and Acute Care Utilization for Cervical Cancer **Patients Undergoing Concurrent Chemoradiation**



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INTRODUCTION

Radiation Oncology

- Concurrent chemo-radiotherapy followed by brachytherapy is the standard curative treatment for locally advanced cervical cancer.
- Treatment journey is associated with significant toxicity and complex navigation, resulting in unscheduled acute care visits
- Patient-reported outcomes (PROs) provide the opportunity to understand the patient's symptoms, needs, and overall experience

AIM

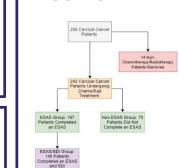
- To characterize the symptom burden and unmet needs of locally advanced cervical cancer patients undergoing concurrent chemoradiation
- To evaluate the utility of PROs in predicting unscheduled acute care visits

METHODS

- Patients with FIGO Stage IB-IVA cervical cancer treated with curative intent chemo-radiotherapy between January 2014 and December 2020 were retrospectively identified
- Data Collection:
- · Patient socio-demographics, PRO scores, clinical and treatment characteristics, and unscheduled acute care visits were extracted from medical records
- PROs: Edmonton Symptom Assessment System-revised (ESAS-r) and Social Difficulties Inventory (SDI) are routinely completed by patients prior to the clinical encounter
- Moderate-severe ESAS-r score: > 4 for any individual item
- Social difficulty: Yes to any SDI Subscale
- Unscheduled acute care visit: any visit to our institution's Radiation Nursing Clinic, Emergency department visit, and/or hospitalization

Data Analysis:

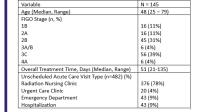
- Descriptive statistic summarized socio-demographic, PRO and clinical/treatment data
- · A logistic regression model evaluated if ESAS-r and/or SDI scores increased the likelihood of having an unscheduled acute care visit within 1 month of PRO completion

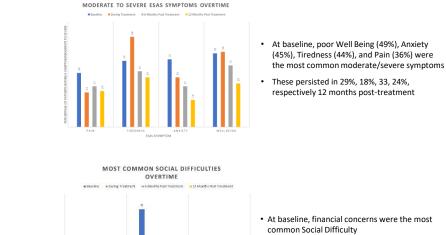


RESULTS

Figure 1: Patient Cohort Sample

Table 1: Patient Characteristics





Symptom Burden and Social Difficulties Analysis:

- At baseline, financial concerns were the most
- · This persisted in 12% at 12 months posttreatment

66% 17.8 Davs **RT Start** 1st Unplanned Visit

Unscheduled Acute Care Utilization:

- 66% (n=96) had at least one unplanned acute care visit from treatment start to one month post treatment
- Average # visits/patient = 6
- Average time from RT start to 1st visit = 17.8 days

Association between PROs & Acute Care Utilization

On multivariate logistic regression analysis, there were no associations between ESAS-r nor SDI scores and subsequent unplanned acute care visits

CONCLUSIONS

- Cervical cancer patients undergoing concurrent chemo-radiotherapy endorse significant symptoms and social difficulties at baseline that persist 12 months posttreatment
- Patients utilize unplanned acute care health services frequently during treatment; however, there were no associations between PRO scores and acute care visits
- · Future work is ongoing to assess a Proactive Symptom Monitoring Program and to determine predictors of acute care utilization

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