Prevalence, Duration, Severity, and Distress of Chemotherapy-Related Gastrointestinal Symptoms in Patients With a Hematologic Malignancy

Catherine Cherwin, PhD, RN, and Kristine Kwekkeboom, PhD, RN

Purpose/Objectives: To describe prevalence, duration, severity, and distress of chemotherapy-related gastrointestinal (GI) symptoms, and evaluate inclusion of clinically relevant GI symptom items on cancer symptom questionnaires.

Design: Longitudinal descriptive design.

Setting: Inpatient and outpatient hematology settings.

Sample: 105 adults with a hematologic malignancy receiving their third or subsequent cycle of chemotherapy.

Methods: Participants completed weekly assessments of 19 GI symptoms during a three-week period of chemotherapy. Descriptive statistics were calculated to summarize GI symptom prevalence, duration, severity, and distress ratings at each week. Findings were compared to item content of 12 cancer multisymptom questionnaires identified in the literature.

Main Research Variables: GI symptom prevalence, duration, severity, and distress.

Findings: Participants reported an average of three to five GI symptoms at each time point that were typically experienced as mild to moderate in duration, severity, and distress. Only 3 of 11 clinically relevant GI symptoms were included on more than half of the cancer symptom questionnaires.

Conclusions: Patients receiving chemotherapy experience a moderate GI symptom burden across a wide range of potential GI symptoms.

Implications for Nursing: Future research should include measures of clinically relevant GI symptoms that may be emerging with new cancer therapies and toxicity prevention protocols.

Cherwin is a faculty associate in the College of Nursing at the University of Iowa in Iowa City, and Kwekkeboom is a professor in the School of Nursing at the University of Wisconsin in Madison.

This research was funded by grants (F31NR014062 and R01NR013468) from the National Institute of Nursing Research of the National Institutes of Health, a grant (121310-DSCH-11-278-01-SCN) from the American Cancer Society Doctoral Degree Scholarship in Cancer Nursing, and an Eckburg Research Award from the School of Nursing at the University of Wisconsin in Madison.

Mention of specific products and opinions related to those products do not indicate or imply endorsement by the Oncology Nursing Forum or the Oncology Nursing Society.

Both authors contributed to the conceptualization and design, analysis, and manuscript preparation. Cherwin completed the data collection and provided statistical support.

Cherwin can be reached at catherine-cherwin@uiowa.edu, with copy to editor at ONFEditor@ons.org.

Submitted October 2015. Accepted for publication December 17, 2015.

Key words: hematologic malignancy; chemotherapy; gastrointestinal symptoms; clinical relevance; symptom assessment

ONF, 43(5), 561–571.

doi: 10.1188/16.ONF.43-05AP

Cherwin is a faculty associate in the College of Nursing at the University of Iowa in Iowa City, and Kwekkeboom is a professor in the School of Nursing at the University of Wisconsin in Madison.

This research was funded by grants (F31NR014062 and R01NR013468) from the National Institute of Nursing Research of the National Institutes of Health, a grant (121310-DSCH-11-278-01-SCN) from the American Cancer Society Doctoral Degree Scholarship in Cancer Nursing, and an Eckburg Research Award from the School of Nursing at the University of Wisconsin in Madison.

Mention of specific products and opinions related to those products do not indicate or imply endorsement by the Oncology Nursing Forum or the Oncology Nursing Society.

Both authors contributed to the conceptualization and design, analysis, and manuscript preparation. Cherwin completed the data collection and provided statistical support.

Cherwin can be reached at catherine-cherwin@uiowa.edu, with copy to editor at ONFEditor@ons.org.

Submitted October 2015. Accepted for publication December 17, 2015.

Key words: hematologic malignancy; chemotherapy; gastrointestinal symptoms; clinical relevance; symptom assessment

ONF, 43(5), 561–571.

doi: 10.1188/16.ONF.43-05AP

Cherwin is a faculty associate in the College of Nursing at the University of Iowa in Iowa City, and Kwekkeboom is a professor in the School of Nursing at the University of Wisconsin in Madison.

This research was funded by grants (F31NR014062 and R01NR013468) from the National Institute of Nursing Research of the National Institutes of Health, a grant (121310-DSCH-11-278-01-SCN) from the American Cancer Society Doctoral Degree Scholarship in Cancer Nursing, and an Eckburg Research Award from the School of Nursing at the University of Wisconsin in Madison.

Mention of specific products and opinions related to those products do not indicate or imply endorsement by the Oncology Nursing Forum or the Oncology Nursing Society.

Both authors contributed to the conceptualization and design, analysis, and manuscript preparation. Cherwin completed the data collection and provided statistical support.

Cherwin can be reached at catherine-cherwin@uiowa.edu, with copy to editor at ONFEditor@ons.org.

Submitted October 2015. Accepted for publication December 17, 2015.

Key words: hematologic malignancy; chemotherapy; gastrointestinal symptoms; clinical relevance; symptom assessment

ONF, 43(5), 561–571.

doi: 10.1188/16.ONF.43-05AP