

Accepted Manuscript

Cytokine Gene Polymorphisms Associated with Symptom Clusters in Oncology Patients Undergoing Radiation Therapy

Christine Miaskowski, RN, PhD, Yvette P. Conley, PhD, Judy Mastick, RN, MN, Steven M. Paul, PhD, Bruce A. Cooper, PhD, Jon D. Levine, MD, PhD, Mitchell Knisely, RN, PhD, Kord M. Kober, PhD

PII: S0885-3924(17)30355-X

DOI: [10.1016/j.jpainsymman.2017.05.007](https://doi.org/10.1016/j.jpainsymman.2017.05.007)

Reference: JPS 9501

To appear in: *Journal of Pain and Symptom Management*

Received Date: 31 January 2017

Revised Date: 7 April 2017

Accepted Date: 9 May 2017

Please cite this article as: Miaskowski C, Conley YP, Mastick J, Paul SM, Cooper BA, Levine JD, Knisely M, Kober KM, Cytokine Gene Polymorphisms Associated with Symptom Clusters in Oncology Patients Undergoing Radiation Therapy, *Journal of Pain and Symptom Management* (2017), doi: 10.1016/j.jpainsymman.2017.05.007.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**CYTOKINE GENE POLYMORPHISMS ASSOCIATED WITH SYMPTOM CLUSTERS IN
ONCOLOGY PATIENTS UNDERGOING RADIATION THERAPY**

Christine Miaskowski, RN, PhD¹
Yvette P. Conley, PhD²
Judy Mastick, RN, MN¹
Steven M. Paul, PhD¹
Bruce A. Cooper, PhD¹
Jon D. Levine, MD, PhD³
Mitchell Knisely, RN, PhD²
Kord M. Kober, PhD¹

Schools of Nursing¹ and Medicine³, University of California, San Francisco, CA

and

School of Nursing², University of Pittsburgh, Pittsburgh, PA

Number of words - 4912

Number of tables – 5 and 1 Supplementary table

Number of figures - 0

Number of references - 105

Running title: Symptom clusters and cytokine gene polymorphisms

Conflicts of interest: The authors have no conflicts of interest to declare.

Acknowledgements: This study was funded by a grant from the National Institute of Nursing Research (NINR, NR004835). Dr. Miaskowski is an American Cancer Society Clinical Research Professor and is funded by a grant from the National Cancer Institute (CA168960). Mr. Knisely is supported by a T32 grant that is funded by NINR (NR009759).

Address correspondence to:
Christine Miaskowski, RN, PhD
Department of Physiological Nursing
University of California
2 Koret Way – N631Y
San Francisco, CA 94143-0610
415-476-9407 (phone)
415-476-8899 (fax)
chris.miaskowski@ucsf.edu

Download English Version:

<https://daneshyari.com/en/article/5578195>

Download Persian Version:

<https://daneshyari.com/article/5578195>

[Daneshyari.com](https://daneshyari.com)