



¹ University of Queensland-Ochsner Clinical School, Brisbane, QLD/ New Orleans, LA, ² Division of Hematology/Oncology, Department of Medicine, University of California, Irvine, Orange, CA, ³ Martin Luther King, Jr. Outpatient Center, Department of Hematology/Oncology, Los Angeles, CA, ⁴ Chao Family Comprehensive Cancer Center, University of California, Irvine, Orange, CA,, ⁵ Health Policy Research Institute, University of California, Irvine, Irvine, CA, ⁶ Department of Medicine and Program in Public Health, University of California, Irvine, Irvine

Introduction

Patient-Reported Outcome Measurement Information System (PROMIS) utilizes computer adaptive testing (CAT) for a dynamic and efficient tool to collect patient-reported outcomes. Experience with PROMIS-CAT in patients undergoing hematopoietic stem cell transplantation (HSCT) is limited. The aim of this study was to evaluate the feasibility of PROMIS-CAT in HSCT.

Objective

To assess the efficacy and feasibility of PROMIS-CAT in patients actively undergoing HSCT to identify common symptoms surrounding transplant with the goal of earlier intervention and improved outcomes

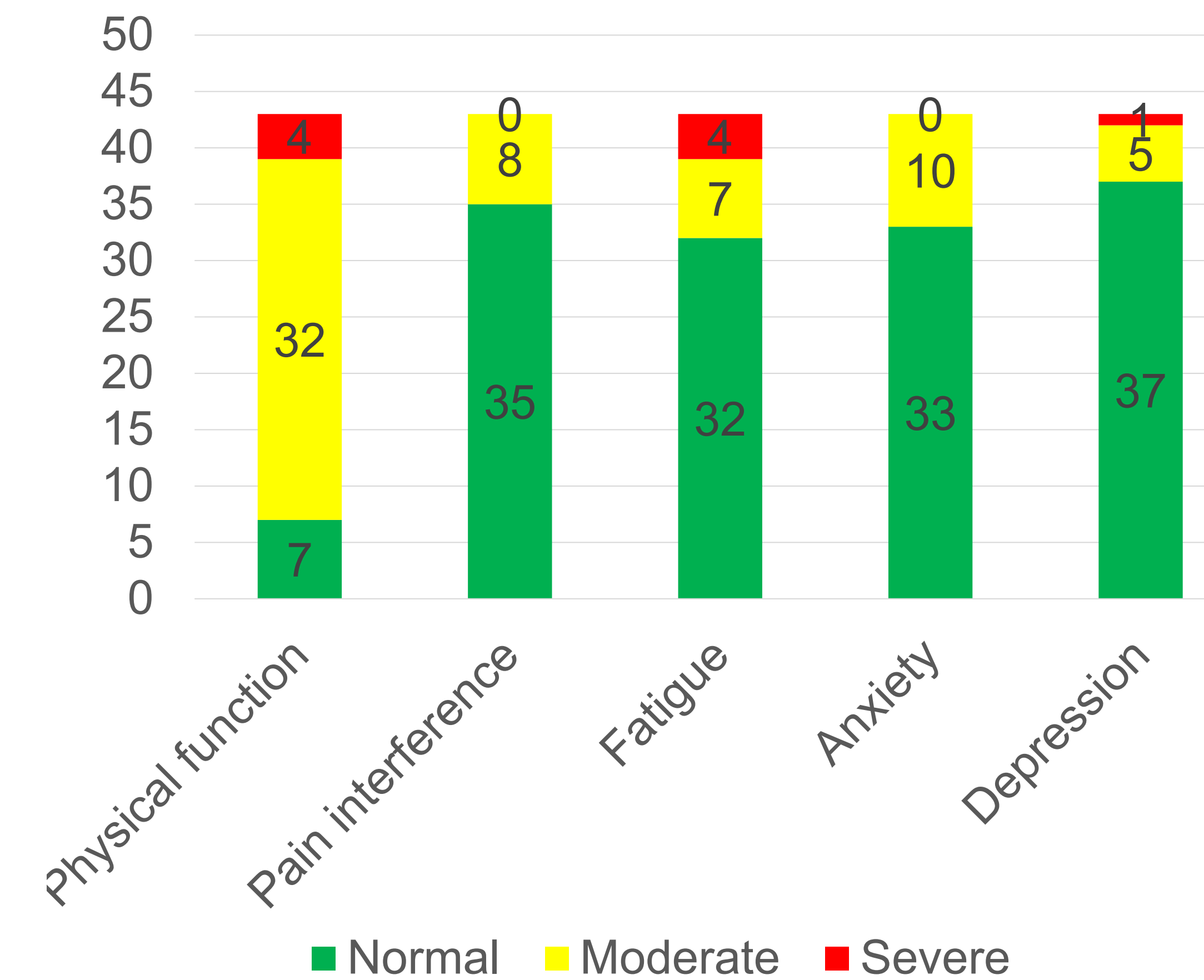
Methods

Design: Single-arm prospective study
Setting: Single academic center in HSCT inpatient and outpatient setting
Patients: All patients consented for HSCT were eligible
Intervention: Patients were asked to complete PROMIS-CAT surveys on an iPad at protocol-defined timepoints during HSCT (pre-transplant, days 30, 60, 90, 180, and 360). In-person administration was the preferred method; however, administration by phone was acceptable due to COVID-19 restrictions.

Results

Between June 2020-August 2021, 17/20 (85%) patients consented, mean age was 54.9 years (age range 24-75), and 53% were female participants. During this period, there were 66 protocol-timepoints to collect PROMIS-CAT surveys.

PROMIS CAT Surveys



43 (65.2%) were completed as planned. Reasons for missed surveys included patient declined to complete (2/66, 3.0%), unable to reach patient (15/66, 22.7%), and institutional error (6/66, 9.1%). The majority of completed surveys (41/43, 95.5%) were scored as “very easy” to complete by participants.

Moderate-to-severe symptoms scores in ≥ 1 categories were identified in 38 (88.4%) of 43 surveys. The number of moderate-to-severe scores in each category are: physical function (36), pain interference (8), fatigue (11), anxiety (10), and depression (6).

Discussion

Collection of PROMIS-CAT is feasible and acceptable in HSCT. Adherence for completing surveys was limited by phone administration and the COVID-19 pandemic. PROMIS-CAT can provide valuable insights into patient-centered symptoms during HSCT, which can give opportunities for appropriate symptom intervention.