BACKGROUND

- About 1 in 5 people diagnosed with breast cancer (BC) will be considered HER2+,¹ and nearly half of those diagnosed with HER2+ BC develop brain metastases.² Brain metastases increase the risk of impairments, faster disease progression, and shorter survival time.³
- Despite the significant burden faced by people with HER2+ BC living with brain metastases (BMBC), there is little research available characterizing the unique experiences of this community.

AIMS

- 1. Examine the feasibility of recruiting individuals currently living with HER2+ BMBC to complete an online survey.
- 2. Describe participants' health-related quality of life (HRQOL) and experiences with work impairment.

METHODS

In this observational, cross-sectional study, 62 women living with HER2+ metastatic BC were recruited via advocacy partners, Living Beyond Breast Cancer and Metastatic Breast Cancer Alliance, and completed an online survey in January 2022. Participants answered questions about:

- Sociodemographic and clinical history, including history of brain metastases
- Current caregiving support received
- Physical health (PROMIS Global Physical Health 2av1.2)
- HRQOL (PROMIS-29v2.0 & PROMIS Cognitive Function 8a)
- Work impairment (WPAI-SHPv2.0)

Descriptive statistics were calculated for study variables; PROMIS measures were converted to T scores (M=50, SD=10), enabling comparisons to established population benchmarks.

Results presented in this study represent the 30 of 62 HER2+ respondents who self-reported brain metastases.

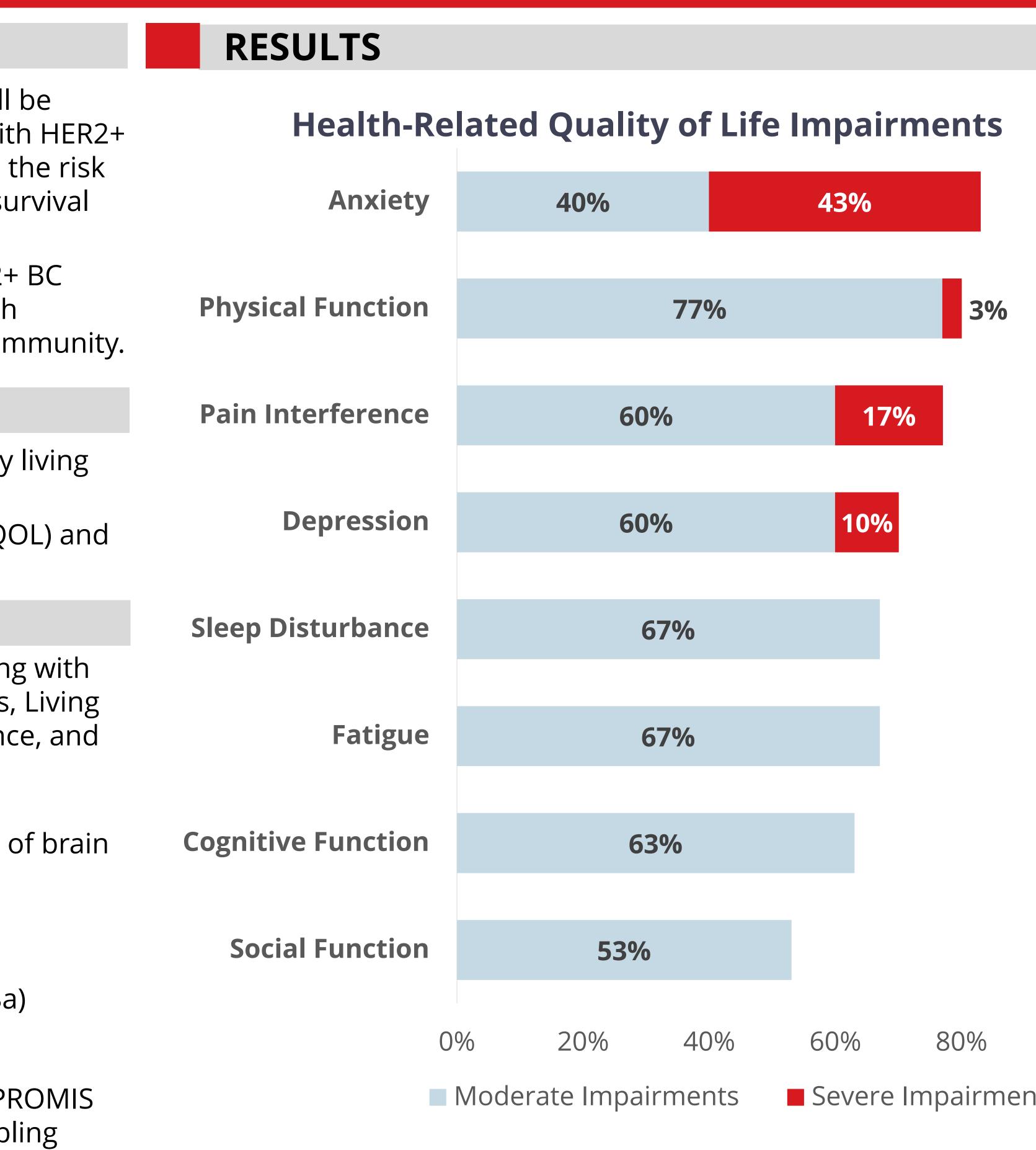
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PARTICIPANTS		
N = 30	M / n	Range / %
Age (years)	43	33-72
Race and ethnicity		
Hispanic, Latino, or Spanish origin	7	23%
Non-Hispanic Asian	7	23%
Non-Hispanic AIAN	1	3%
Non-Hispanic Black/African American	1	3%
Non-Hispanic White	14	47%
Years since BMBC diagnosis	2.7	<1-20
Years between diagnosis and metastatic disease onset	1.8	0-11
Educational attainment		
Some college	3	10%
College degree	17	57%
Graduate degree or higher	10	33%
Employment status		
Full-time	5	17%
Part-time/Temporary Employment	2	7%
Retired	1	3%
Not employed, disability	22	73%
Poor physical health*	15	50%
* PROMIS Global Physical Health 2av1.2 score >2 SD		



Health-Related Quality of Life and Work Impairment Among Individuals Living with HER2+ Breast Cancer with Brain Metastases

Victoria G. Morris, PhD, Alexandra K. Zaleta, PhD, & Heather Badt, MBA, LSS Research and Training Institute, Cancer Support Community, Philadelphia, PA;

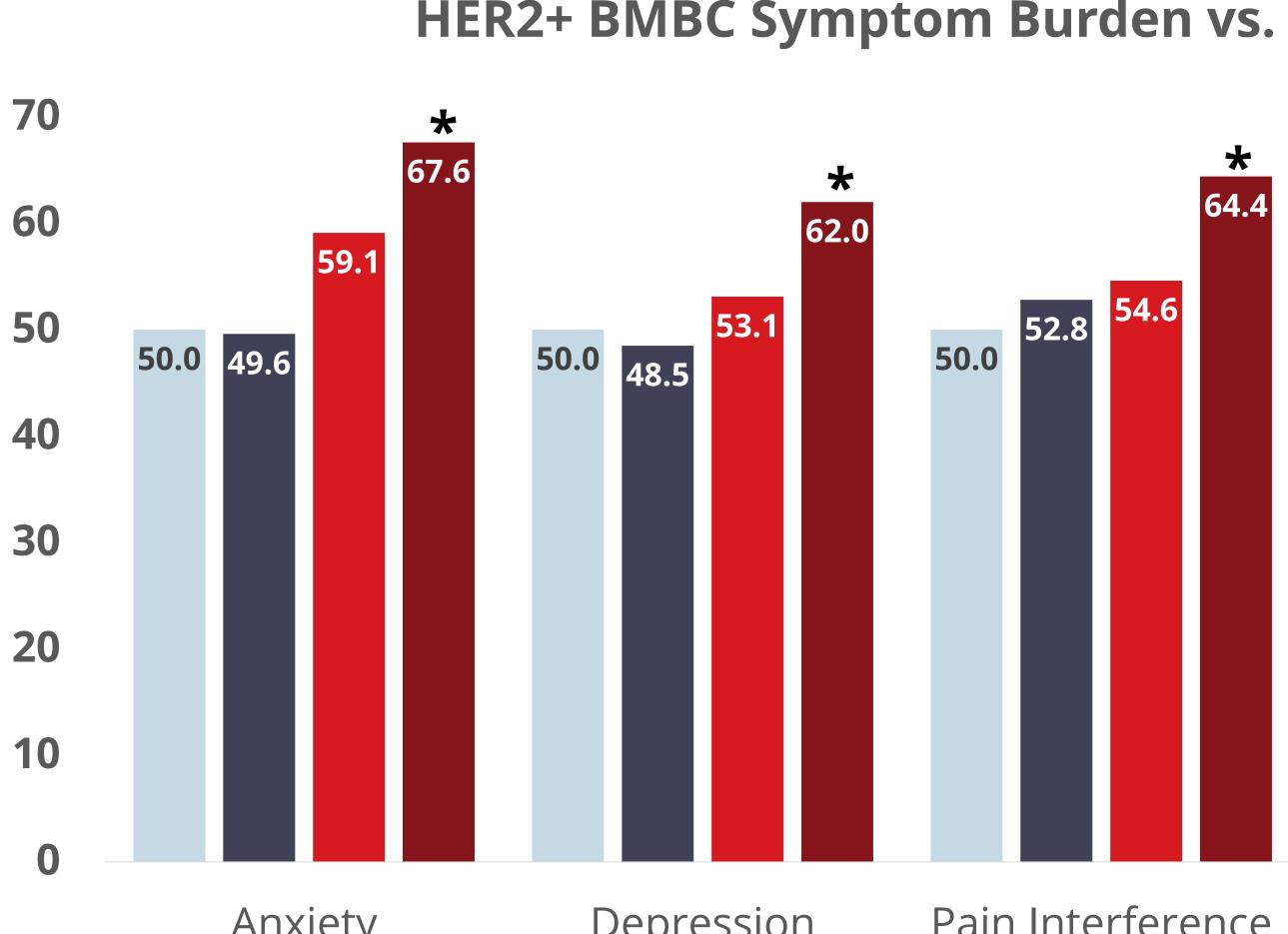


70% of participants experienced impairments in all eight HRQOL f

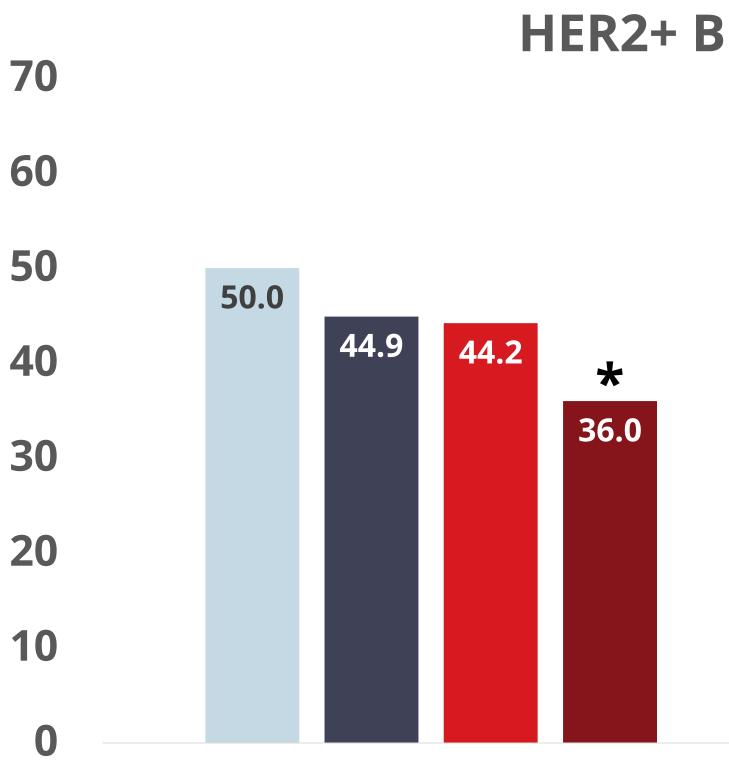
Frequency of Caregiver Suppo

)%	80%	50)
evere Im	pairments	40)
		30)
<i>moderate to severe facets</i>		20)
ort Ree	ceived	10)

hrs/week 10 hrs/week -15 hrs/week -20 hrs/week onstant Care



Pain Interference Depression Anxiety *3-point differences are considered clinically meaningful⁴



Physical Function

*3-point differences are considered clinically meaningful⁴

Work Impair

% Work Hours Missed % Reduced Productivity while Worki % Overall Work Impairment

 $^{\dagger}n = 7/30$ employed at time of the survey; 73% not employed due to disability

substantial emotional, physical, social, and cognitive quality of life impairments, high work absenteeism, reduced ting significant unmet needs.

rough advocacy partnerships, suggesting high feasibility of future research with larger communities of individuals living

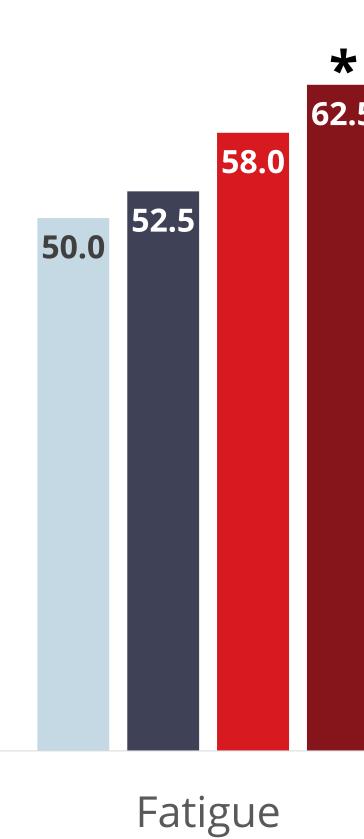
ults indicate a clear need for supportive care programs that leverage collaborative efforts between community-based als to address the health-related quality of life and work impairments experienced by those living with HER2+ BMBC.

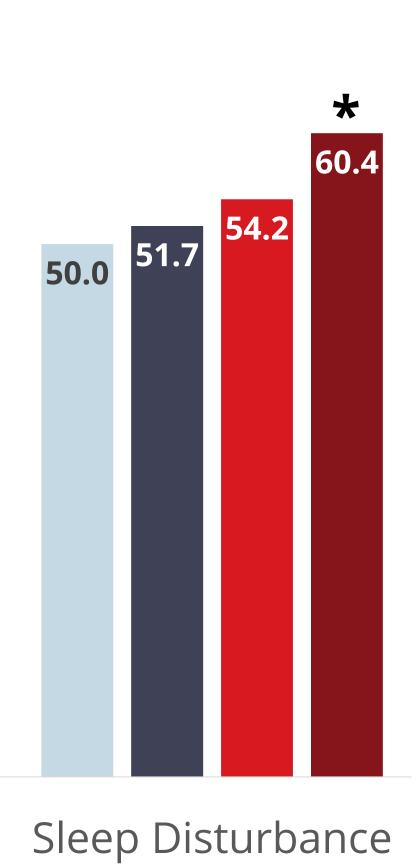
cancer. (2020, April 07). Retrieved September 18, 2020, from https://www.mayoclinic.org/breast-cancer/expert-answers/faq-20058066 Oliveira, M. (2021). Brain metastases in HER2-positive breast cancer: Current and novel treatment strategies. Cancers, 13(12), 2927. I. (2019). Central nervous system metastasis in patients with HER2-positive metastatic breast cancer: Patient characteristics, treatment, and survival from SystHERs. Clin Cancer Res., 25,

., Lobo, T., Cella, D., Hahn, E. A., ... & Reeve, B. B. (2017). United States population-based estimates of patient-reported outcomes measurement information system symptom and functional cancer. Journal of Clinical Oncology, 35(17), 1913.

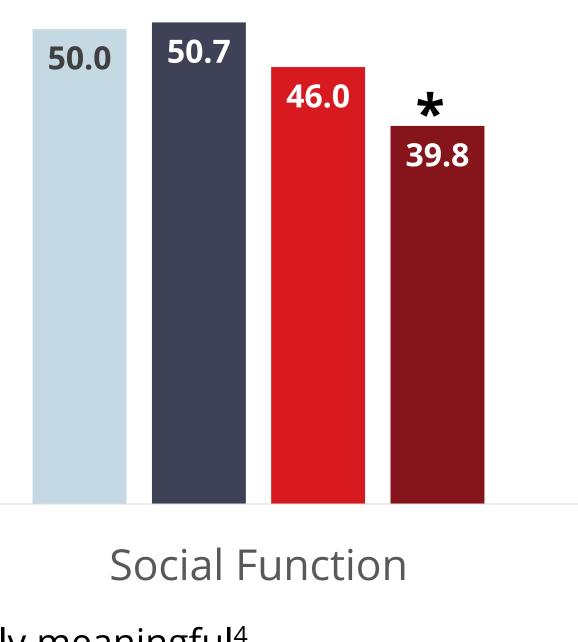
■ General U.S. Population ■ Breast Cancer Population ■ MBC without Brain Mets ■ HER2+ BMBC Sample

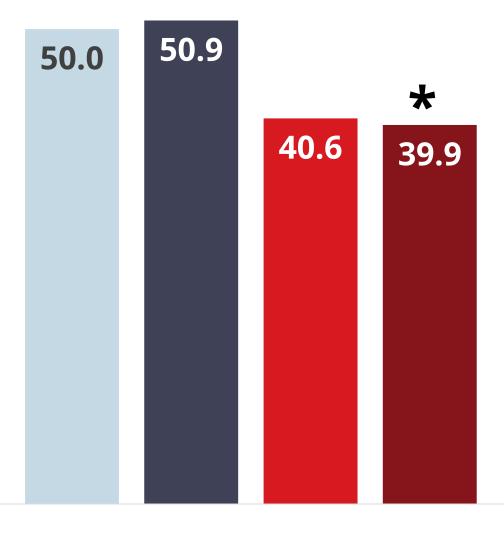
HER2+ BMBC Symptom Burden vs. Population Benchmarks





HER2+ BMBC Functioning vs. Population Benchmarks





Cognitive Function

'ment [†]	Mean	Range
	37%	14-74%
king	39%	0-80%
	60%	39-95%