Comparing painative care knowledge in metropolitan and non-

metropolitan areas of the United States

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Background

- Despite recent growth in access to specialty palliative care (PC) services, awareness of PC by patients and caregivers is limited and misconceptions about PC persist
- Little is known about the prevalence and predictors of PC knowledge among US residents living in rural areas

How does knowledge of palliative care compare between metropolitan and non-metropolitan areas of the United States?

Study Design

Used data from National Cancer Institute's 2018
Health Information National Trends Survey
(HINTS) 5 Cycle 2, which contains questions
assessing understanding of PC

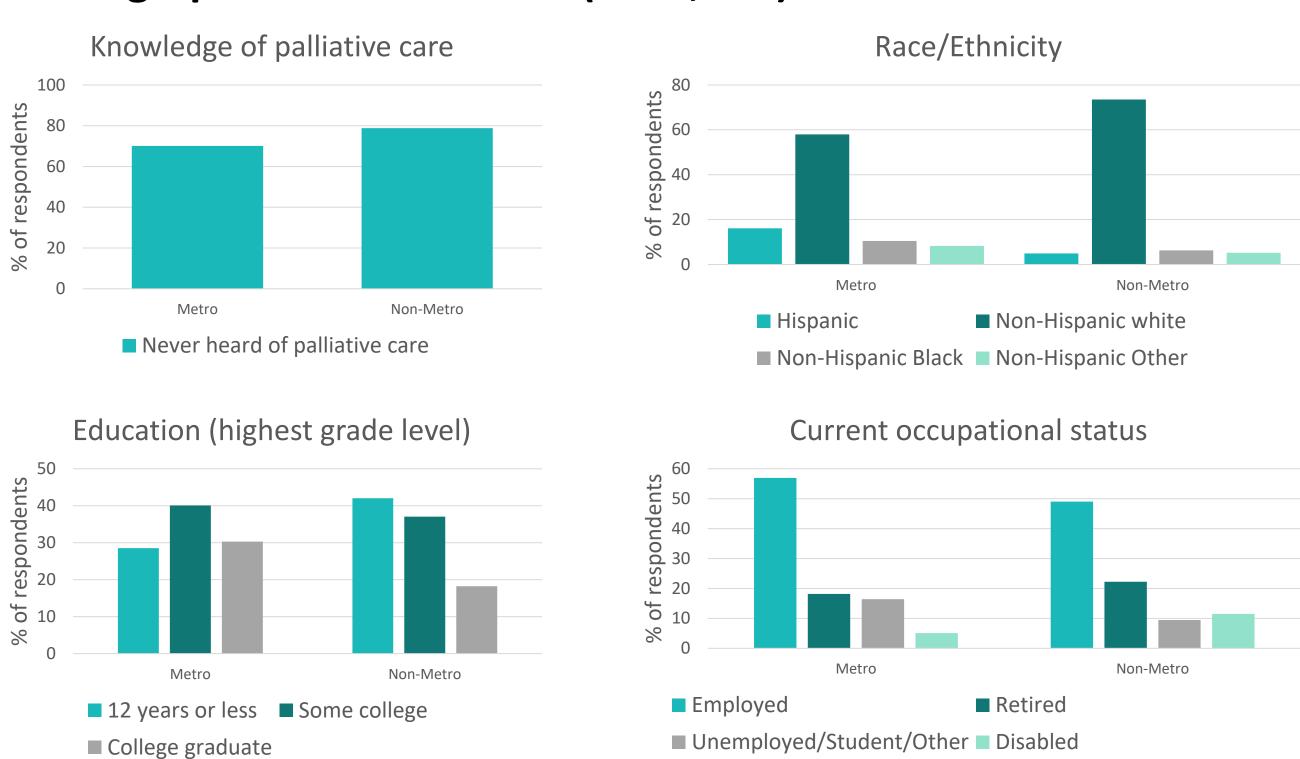
Identified metropolitan (>50,000 population) and non-metropolitan (≤50,000 population) respondents using the 2013 Urban-Rural Classification Scheme for Counties

Compared prevalence and predictors of PC knowledge and misconceptions for non-metropolitan and metropolitan residents

Estimated association between non-metropolitan status and knowledge of PC using multivariable regression, adjusted for respondent characteristics and geographic variation

Results

Demographic characteristics (n = 3,445)



Respondent characteristics associated with self-reported knowledge of palliative care

	Odds Ratio	95% CI
Non-metropolitan residence ^a	0.59	(0.37, 0.94)
Married	1.15	(0.84, 1.57)
Female ^c	2.20	(1.60, 3.03)
Race/ethnicity		
Hispanic ^b	0.47	(0.27, 0.83)
Non-Hispanic white	REF	
Non-Hispanic Black	0.66	(0.38, 1.14)
Non-Hispanic other race ^a	0.55	(0.34, 0.88)
Age, years		
18-34	REF	
35-49 b	1.77	(1.16, 2.71)
50-64 ^c	2.27	(1.45, 3.57)
65-74 ^c	2.77	(1.91, 4.03)
75+ ^c	2.56	(1.60, 4.11)
Education, highest grade level		
12 years or less	REF	
Some college ^c	2.57	(1.64, 4.02)
College graduate c	5.98	(3.97, 9.01)
Doctor visits, 5+	1.17	(0.87, 1.59)
Caregiver ^a	1.60	(1.05, 2.45)
		a p<0.05, b p<0.01, c p<0.001, REF = reference category

Prevalence of misconceptions among metropolitan and nonmetropolitan respondents

	Metro (n = 1,019)	Non-Metro (n = 143)
	% agree	% agree
1. Accepting palliative care means giving up	15.16	20.39
2. If you accept palliative care, you must stop other treatments	15.97	27.56
3. Palliative care is the same as hospice care	37.01	41.22
4. When I think of "palliative care," I automatically think of death	43.72	48.45
Agreed with at least one item	58.50	63.90

Key Findings

Non-metro respondents were more likely than metro respondents to be non-Hispanic White, less likely to be collegeeducated, and less likely to be employed

More respondents reported that they had never heard of PC in nonmetro (78.8%) than metro (70.1%) areas

Non-metro respondents
had 41% lower odds of PC
knowledge and Hispanic
respondents demonstrated
53% lower odds of PC
knowledge

63.9% of non-metro and 58.5% of metro respondents reported at least one of four misconceptions about PC

Implications for Policy/Practice

- Patient- and community- facing educational campaigns are needed to improve awareness and reduce misperceptions of PC, particularly in rural and micropolitan areas.
- Across levels of rurality, health literacy and cultural competency should be considered in developing interventions to address gaps in knowledge.