

### Background

• There are significant challenges with recruiting racial/ethnic minority patients, who are often underrepresented in this research, into cancer clinical trials (CCTs).

### Aims

• The objective of this study was to compare perceptions about CCTs among the largest racial and ethnic groups in a US-based cancer registry sample.

## Methods

- 3,167 individuals diagnosed with cancer, enrolled in the Cancer Support Community's Cancer Experience Registry, answered questions about their experiences with and views on CCTs. Participants provide sociodemographic information and rated their level of agreement (0 = strongly disagree to 4 = 1strongly agree) with eight statements related to CCTs.
- Individuals that endorsed Hispanic or Latino ethnicity were coded as such regardless of race. Black or African American, Asian, and White racial groups consist of non-Hispanic or Latino individuals only.
- Bivariate associations between sociodemographics and CCT item ratings were examined. MANCOVA was used to determine associations between race and ethnicity and beliefs about CCTs after controlling for significant covariates, as well as age and gender. Statistical significance was adjusted for multiple comparisons with Bonferroni corrections.

## Participants

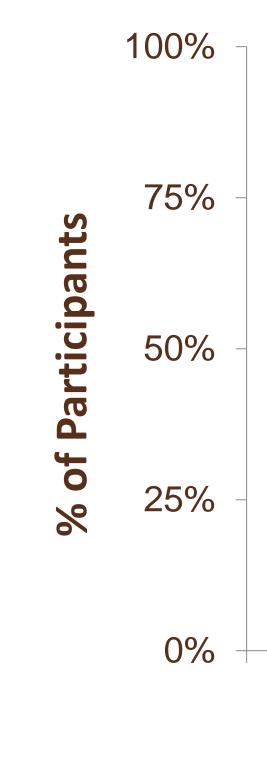
N = 3167	Mean/ n
Age (years)	57
	Range:
Female	2379
College degree or higher	2048
Non-Hispanic or Latino Ethnicity	3073
White	2766
Black or African American	108
Asian	44
Multiple races	32
Hispanic or Latino Ethnicity	94
White	52
Black	3
Asian	1
American Indian or Alaska Native	7
Other	20
Multiple races	8
Time since diagnosis (years)	5
Ever experienced recurrence	692
History of metastatic disease	445
Treatment history	
Surgery	1943
Chemotherapy (past)	1858
Chemotherapy (current)	265
Radiation therapy (past)	1369
Radiation therapy (current)	65
knowledgments	References
s work is sponsored by AbbVie, Amgen Corporation, Bayer, Boehringer	1. Jimenez, R., Z majority patier
elheim, Bristol-Myers Squibb, Celgene Corporation, Eli Lilly and mpany, Genentech, Inc., Janssen Biotech, Inc., Novartis, Pfizer	2. Byrne, M. M.,
cology, Pharmacyclics, Inc., and Takeda Oncology.	<i>Making, 34</i> (1), 3. Murthy, V. H.,
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American Psychological Association Annual Convention, Washington, DC, August 3 – 6, 2017

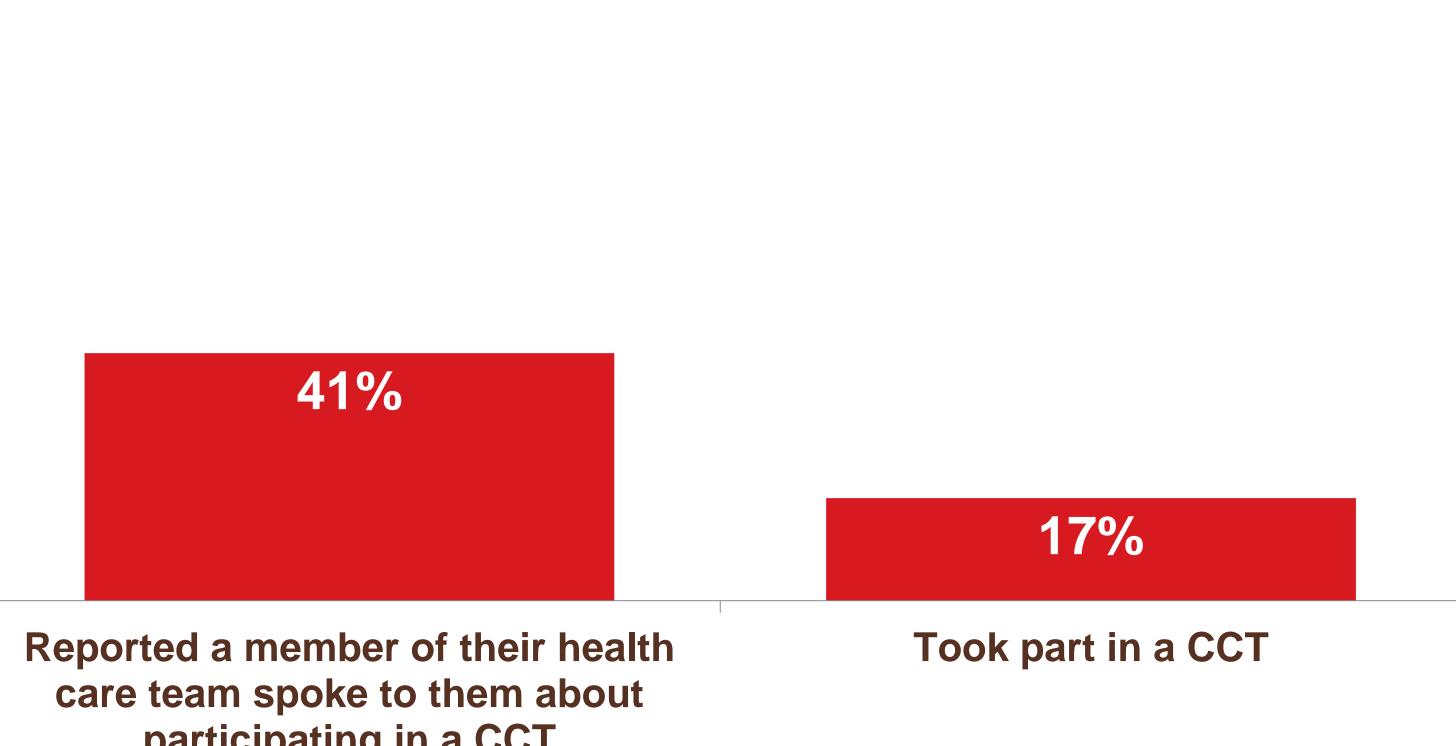
# Perceptions of Cancer Clinical Trials Among Racial and Ethnic **Minority Cancer Survivors**

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### Results



# **Cancer Clinical Trials Participation and Communication**



# participating in a CCT

- Fewer than half (41%) of registrants reported that a member of their health care team spoke to them about participating in CCTs
- 17% reported that they took part in a CCT
- The proportion of registrants that reported a member of their health care team spoke to them about participating in CCTs did not differ by race or ethnicity (ps > .05)

#### **Beliefs and Perceptions about Cancer Clinical Trials**

SD/% 11	Belief	Number of Participants (n)	Percent of Participants
%	Feeling uncomfortable with being randomly assigned to a treatment (n = 3033)	1846	61%
	Fearing receiving a placebo (n = 3020)	1714	57%
	<b>Fearing side effects that may come with treatment</b> ( <i>n</i> = 3002)	1516	51%
	Believing that health insurance would not cover a cancer clinical trial (n = 2917)	695	24%
	Believing that there are not any clinical trials available in the community (n = 2958)	578	20%
	Fearing being used as a "guinea pig" and mistrusting the medical establishment (n = 3024)	521	17%
	Believing there are logistical barriers making it impossible to fulfill trial requirements (n = 3009)	539	18%
	Not understanding what clinical trials are (n = 3010)	285	10%
	Note: % indicating Agree or Strongly Agree		
	<ul> <li>More than half (61%) of registrants reported feeling uncomfortable with being randomly assigned to treatment in a cancer clinical trial</li> </ul>		
	<ul> <li>Many registrants expressed strong fear about the chance they would receive a potentially ineffective placebo (57%) and about side effects (50%)</li> </ul>		
	<ul> <li>Almost a quarter of registrants (24%) believed that their insurance would not cover a trial, despite rules requiring many insurance providers to consider a trial as they would any other form of treatmen</li> </ul>		

Zhang, B., Joffe, S., Nilsson, M., Rivera, L., Mutchler, J., ... Prigerson, H. G. (2013). Clinical trial participation among ethnic/racial minority and ents with advanced cancer: what factors most influence enrollment? J Palliat Med, 16(3), 256-262. Tannenbaum, S. L., Glück, S., Hurley, J., & Antoni, M. H. (2014). Participation in cancer clinical trials: why are patients not participating? Med Decis I), 116-126.

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CANCER EXPERIENCE **REGISTRY** A PROGRAM of the CANCER SUPPORT COMMUNITY

#### **Associations between Race and Ethnicity and Beliefs about Clinical Trials**

#### Factor

**Race and Ethnic** 

#### Predictor

(compared to White pa Not understanding

 $(F(3,2371) = 18.07, eta^2)$ **Black of African** 

Asian

Latino or Hispan

Fearing being used  $(F(3,2371) = 10.29, eta^2)$ 

**Black of African** 

Asian

Latino or Hispan Believing that health  $(F(3,2371) = 4.52, eta^2 =$ 

**Black or African** 

- Asian, respectively; *p*s<.01)
- and misconceptions about CCTs

# Implications and Conclusions

- diverse needs and concerns.

	Wilks' Lambda	F(18,6693)	þ
city	.970	4.026	<.001

• The effects of race and ethnicity on the beliefs and perceptions of CCTs are significant, even after controlling for the effects of age, gender, education, and income.

rticipants)	Unstandardized beta	p	Part eta <sup>2</sup>		
what clinical tria <sup>2</sup> = .071, <i>p</i> <.01)	als are				
n American	.433	<.001	.005		
	.760	<.001	.007		
nic	.450	.001	.005		
I as a "guinea pig" and mistrusting the medical establishment <sup>2</sup> = .042, <i>p</i> <0.01)					
n American	.313	.019	.002		
	.570	.006	.003		
nic	.645	<.001	.008		
<i>th insurance would not cover the cost of a CCT</i> = .019, p<0.01)					
n American	299	.029	.002		
*0		. :			

\*Controlled for age, gender, education, and income \*\*Significant associations only are displayed

• Mistrust of the medical establishment and fear of being used as a "guinea pig" was a stronger belief among Black, Latino, and Asian participants

• All racial and ethnic minority participants more strongly endorsed lack of understanding of clinical trials compared to White participants ( $\beta$ =0.44, 0.43. 0.67 for Black, Latino and

• Lower income and lower level of education remained associated with negative beliefs

• While the proportion of cancer survivors reporting that their health care team discussed CCTs did not differ by race, there is elevated mistrust among ethnic and racial minorities about the medical establishment and fear of being used as a "guinea pig" in CCTs, as well as perceived poorer understanding of CCTs. Fear of receiving a placebo was consistently high across racial and ethnic groups.

• Race and ethnicity play a small yet statistically significant role in beliefs and perceptions about CCTs; future research needs to explore other factors contributing to differences in CCT perceptions.

• These findings highlight important outreach and educational opportunities for healthcare providers and patient advocacy organizations, including comprehensive treatment decision counseling that is sensitive to survivors'

The Cancer Experience Registry is an online research initiative that captures the immediate and ongoing or changing social and emotional experiences of cancer survivors and their caregivers. • The Registry is for all cancer survivors and caregivers, but also includes 10 disease-specific surveys.

• Findings contribute toward advancing research, health care and policy. • Over 12,000 cancer survivors and caregivers are registered in the Cancer Experience Registry.

Learn more or join the Registry at www.CancerExperienceRegistry.org