

## Supplementary Online Content

Bagley AF, Anscher MS, Choi S, et al. Association of sociodemographic and health-related factors with receipt of nondefinitive therapy among younger men with high-risk prostate cancer. *JAMA Netw Open*. 2020;3(3):e201255. doi:10.1001/jamanetworkopen.2020.1255

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This supplementary material has been provided by the authors to give readers additional information about their work.

**eTable.** Univariate and Multivariate Regression Analyses for Factors Associated With Receipt of Definitive Local Therapy<sup>a</sup>

Characteristic	Definitive Therapy					
	Univariate			Multivariate		
	OR	95% CI	P	OR	95% CI	P
<b>Insurance Status</b>						
Private insurance/managed care	1 (Reference)			1 (Reference)		
Not Insured	0.23	0.20 – 0.25	<.0001	0.31	0.27 – 0.35	<.0001
Medicaid	0.29	0.26 – 0.33	<.0001	0.43	0.38 – 0.49	<.0001
Medicare	0.72	0.67 – 0.76	<.0001	0.82	0.76 – 0.89	<.0001
Other government	1.96	1.51 – 2.54	<.0001	2.41	1.83 – 3.19	<.0001
<b>Income Level<sup>b</sup></b>						
\$63,000+	1 (Reference)			1 (Reference)		
\$48,000 - \$62,999	0.87	0.80 – 0.94	0.0005	0.87	0.79 – 0.96	0.006
\$38,000 - \$47,999	0.69	0.64 – 0.75	<.0001	0.75	0.67 – 0.83	<.0001
< \$38,000	0.51	0.47 – 0.55	<.0001	0.73	0.65 – 0.82	<.0001
<b>Race/Ethnicity</b>						
White (Non-Hispanic)	1 (Reference)			1 (Reference)		
Black	0.44	0.41 – 0.47	<.0001	0.59	0.55 – 0.64	<.0001
Hispanic/Spanish	0.50	0.45 – 0.57	<.0001	0.74	0.65 – 0.84	<.0001
Asian	0.73	0.59 – 0.90	0.003	0.88	0.71 – 1.09	0.23
<b>Age, yrs</b>						
≤ 60	1 (Reference)			1 (Reference)		
61 – 65	0.92	0.86 – 0.99	0.02	0.89	0.82 – 0.96	0.002
66 - 70	0.87	0.81 – 0.93	<.0001	0.81	0.74 – 0.89	<.0001

<b>Population without high school degree, %<sup>c</sup></b>						
< 7	1 (Reference)			1 (Reference)		
7 - 12.9	0.96	0.88 – 1.04	0.30	1.09	0.99 – 1.20	0.09
13 - 20.9	0.70	0.65 – 0.76	<.0001	1.00	0.89 – 1.11	0.94
> 21	0.51	0.47 – 0.56	<.0001	0.94	0.83 – 1.07	0.33
<b>Clinical T-Stage</b>						
1	1 (Reference)			1 (Reference)		
2	1.32	1.24 – 1.42	<.0001	1.29	1.21 – 1.39	<.0001
3	1.92	1.76 – 2.10	<.0001	1.77	1.61 – 1.94	<.0001
4	0.31	0.27 – 0.37	<.0001	0.31	0.26 – 0.37	<.0001
<b>Charlson Comorbidity Index</b>						
0	1 (Reference)			1 (Reference)		
1	1.14	1.05 – 1.24	0.002	1.20	1.10 – 1.32	<.0001
2	0.79	0.66 – 0.95	0.01	0.89	0.73 – 1.08	0.23
<b>Great Circle Distance (miles)</b>						
0 - 4.9	1 (Reference)			1 (Reference)		
5.0 - 11.4	1.27	1.18 – 1.37	<.0001	1.10	1.01 – 1.19	0.03
11.5 - 27.9	1.50	1.39 – 1.63	<.0001	1.16	1.07 – 1.27	0.0006
> 28.0	1.55	1.43 – 1.68	<.0001	1.29	1.18 – 1.41	<.0001
<b>Facility Type</b>						
Academic/Research Program	1 (Reference)			1 (Reference)		
Community Cancer Program	0.78	0.72 – 0.86	<.0001	0.87	0.79 – 0.96	0.005
Comprehensive Community Cancer Program	1.74	1.63 – 1.86	<.0001	1.72	1.61 – 1.85	<.0001
Integrated Network Cancer Program	1.35	1.22 – 1.49	<.0001	1.38	1.24 – 1.53	<.0001
<b>Urban/Rural Group<sup>d</sup></b>						

Metro Counties	1 (Reference)			NI		
Urban Counties	1.06	0.98 – 1.15	0.14			
Rural Counties	1.01	0.83 – 1.22	0.93			

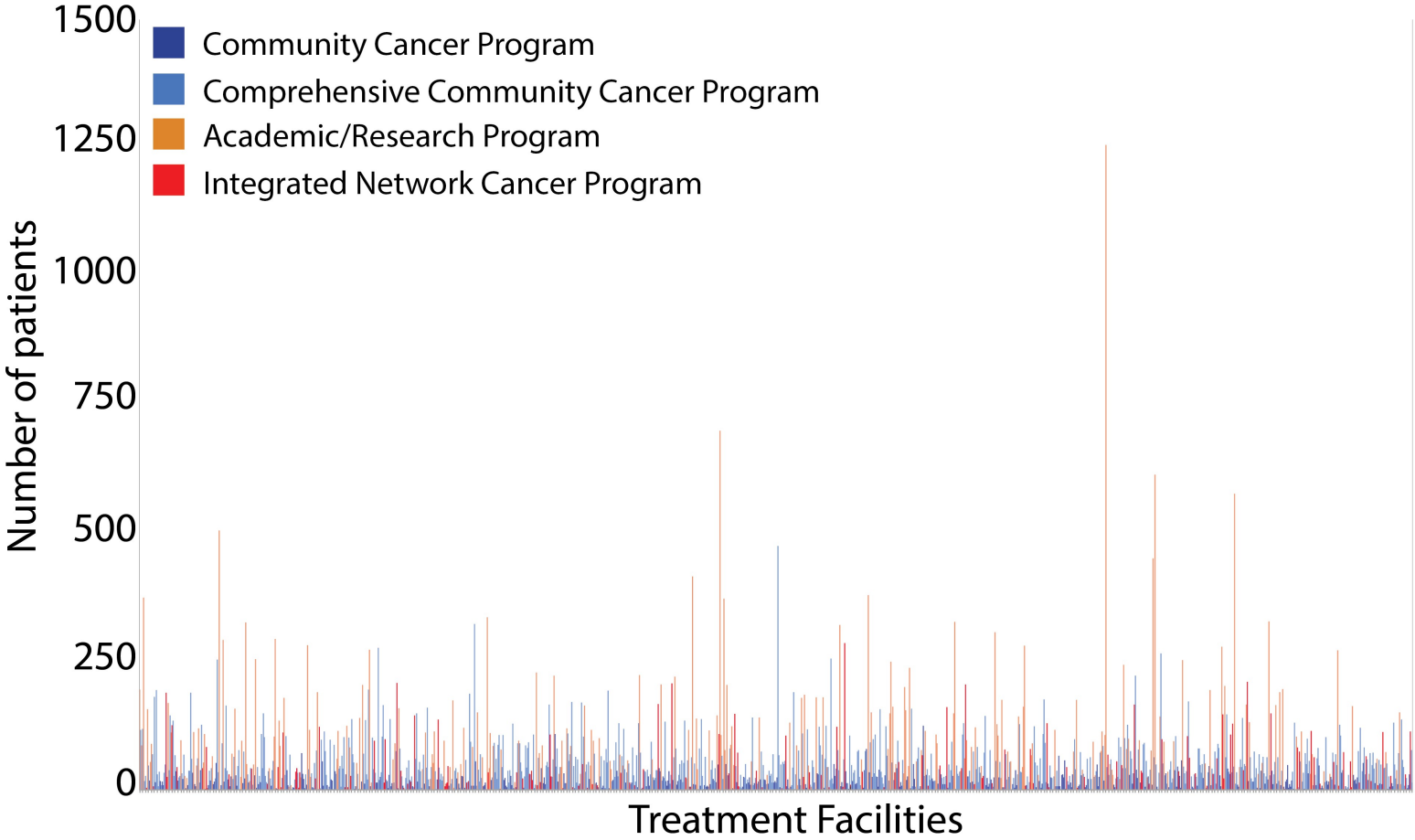
<sup>a</sup>A logistic regression model was used for univariate and multivariate analyses. NI, Not included

<sup>b</sup>Median household income for patient’s area of residence

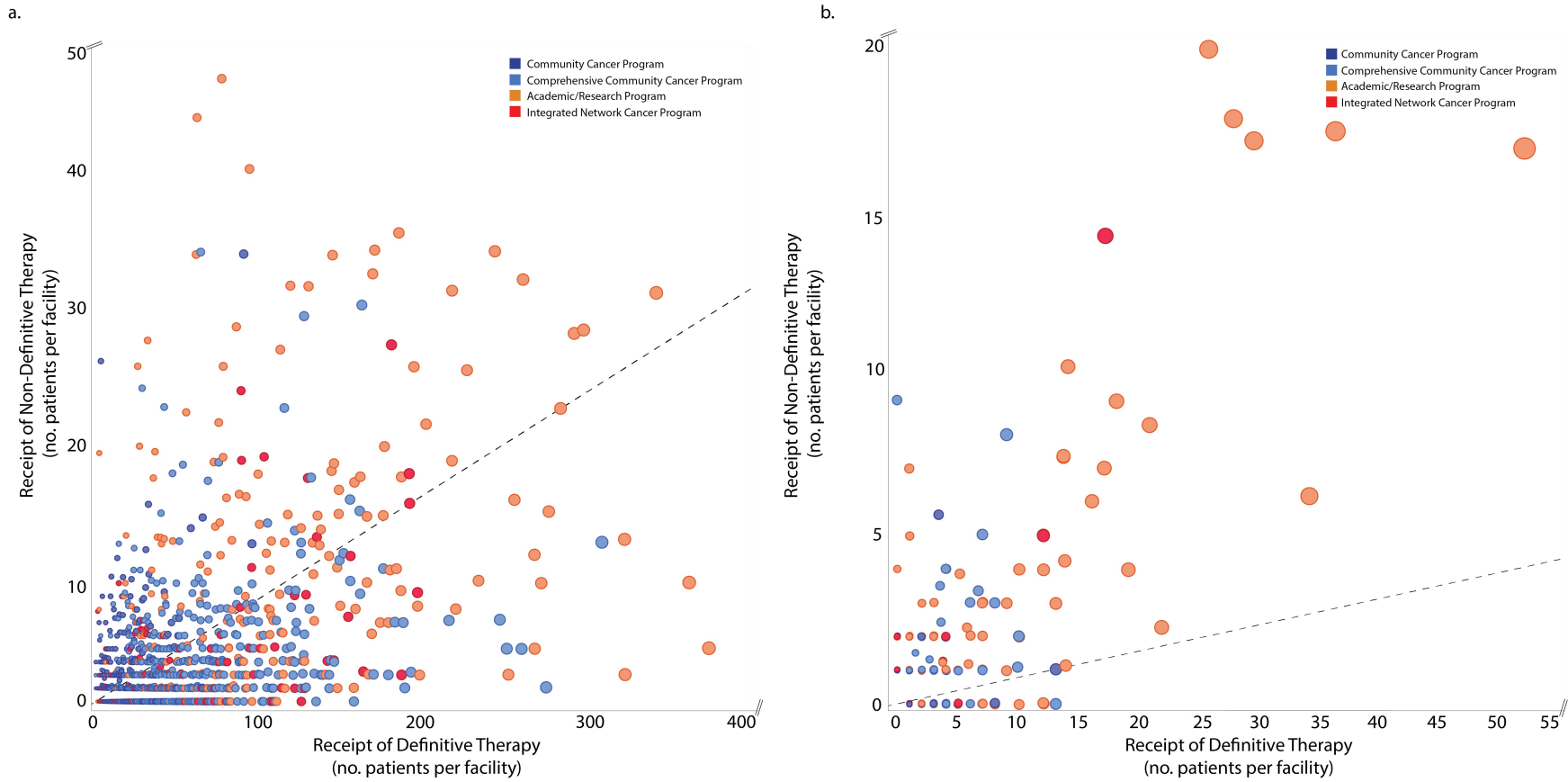
<sup>c</sup>Percentage of adults in the patient’s zip code who did not graduate from high school

<sup>d</sup>Data estimated by population of patient’s county using data from 2013 published by United States Department of Agriculture Economic Research Service. Metropolitan represents counties in metropolitan areas with a population range of fewer than 250 000 to greater than 1 million; urban represents populations of 2500 to greater than 20 000, either adjacent or not adjacent to a metropolitan area; rural represents completely rural populations or areas with less than 2500 residents.

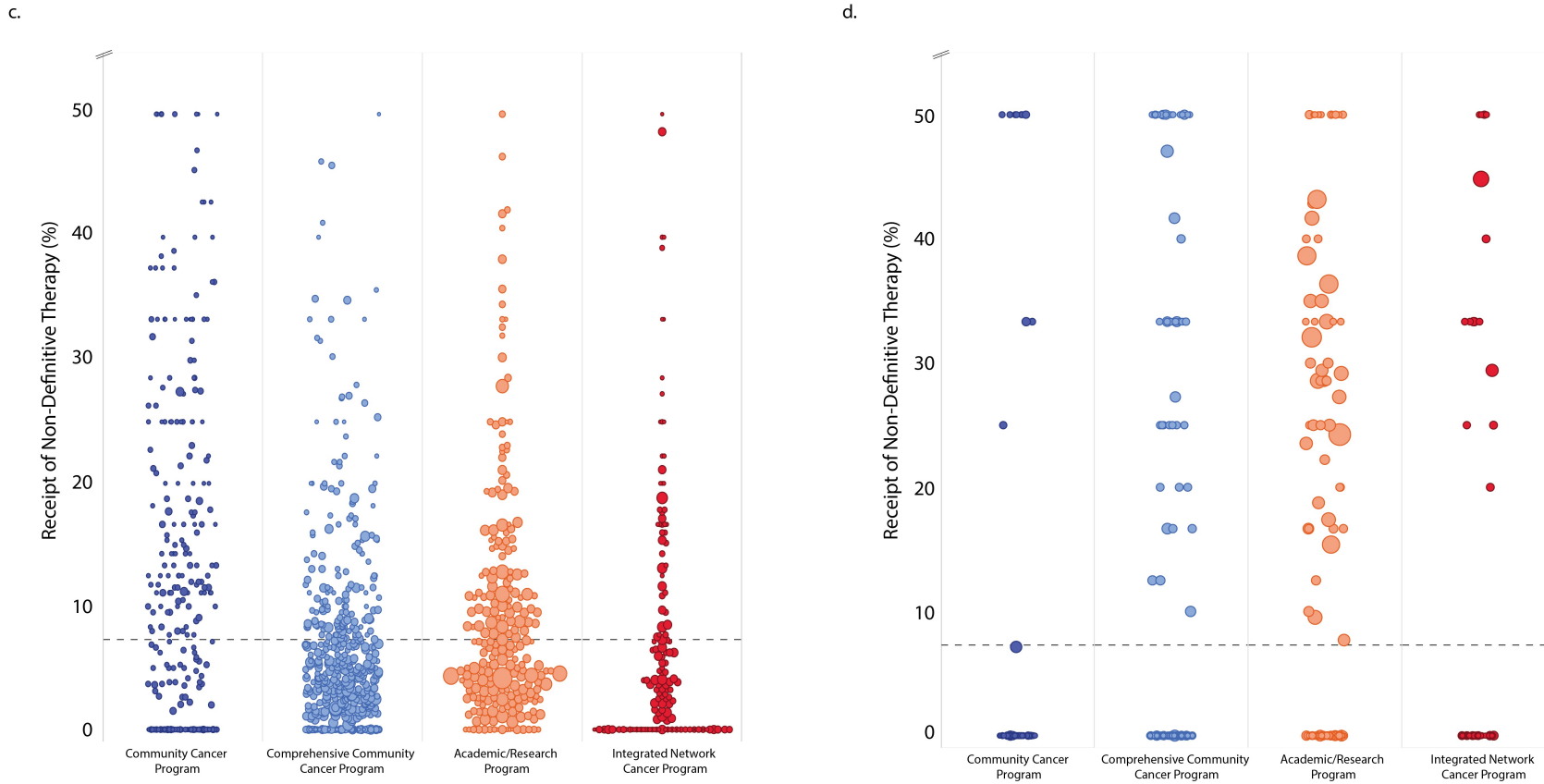
**eFigure 1.** Number of Patients Treated at Individual Treatment Facilities



**eFigure 2.** Patterns of Treatment by Facility Type for (A,C) All Patients and (B,D) Uninsured Patients



**eFigure 2. (Continued)** Patterns of Treatment by Facility Type for (A,C) All Patients and (B,D) Uninsured Patients



Symbols: Each circle represents an individual treatment facility; color of circle denotes treatment facility type; size of circle is proportional to total number of patients treated at facility; dashed line in (a) – (d) represents rate of non-definitive therapy in overall study population.

**eFigure 3.** Person-Years of Life Lost Based on Insurance Status Among (A) All Patients With High-Risk Prostate Cancer Aged 70 Years and Younger and (B) Those Receiving Definitive Therapy

