

LINEBERGER **COMPREHENSIVE CANCER CENTER**

A comparison of demographic and clinical characteristics of Medicare Fee-for-Service and Medicare Advantage enrollees with breast cancer in North Carolina Chris D Baggett^{1,2}, Bradford E Jackson¹, Jenny L. Lund^{1,2}, Katie E. Reeder-Hayes¹

BACKGROUND

- In North Carolina, the proportion of Medicare beneficiaries enrolled in Medicare Advantage plans (MA) more than doubled from 2013 to 2021, increasing from 20% to 45% of all Medicare beneficiaries.
- There is little comparative information available about demographic and clinical characteristics of MA versus traditional fee-for-service (FFS) beneficiaries particularly as it relates to conditionspecific populations such as breast cancer patients.

Objective: To compare demographic, tumor characteristics, and receipt of cancer specific treatment among North Carolina MA and FFS beneficiaries for the years 2015-2020

METHODS

- We studied a population-based, retrospective cohort (n=8,116) of female breast cancer patients in North Carolina for the years 2015 to 2020 enrolled in either MA or FFS.
- Data provided by the Cancer Information and Population Health Resource, which links the North Carolina Central Cancer Registry to insurance claims and sociodemographic data.
- We included patients >18 years with Stage I-III breast cancer who received cancer-related surgery within 6 months of date of diagnosis.
- Patients were required to be enrolled in MA or FFS for 6 months before diagnosis, the month of- and 6 months after diagnosis.
- All patients received either Breast Conserving Surgery (BCS) or Mastectomy (MAST), and we calculated the most frequently occurring codes found on claims and the time in days between the initial cancer diagnosis and the time of their first surgery.

Table1. D

Age at diag Race

Hispanic E

Urban ZIP

SDI quarte

Stage at di

Figure 1.

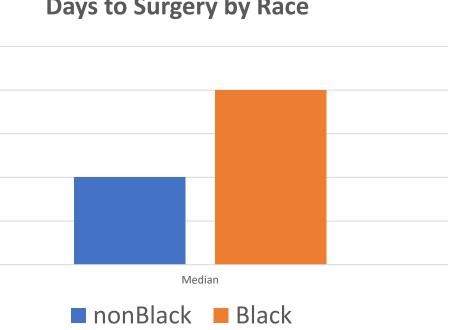
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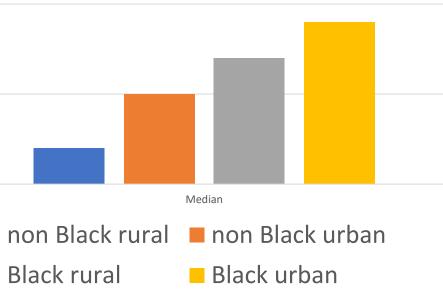
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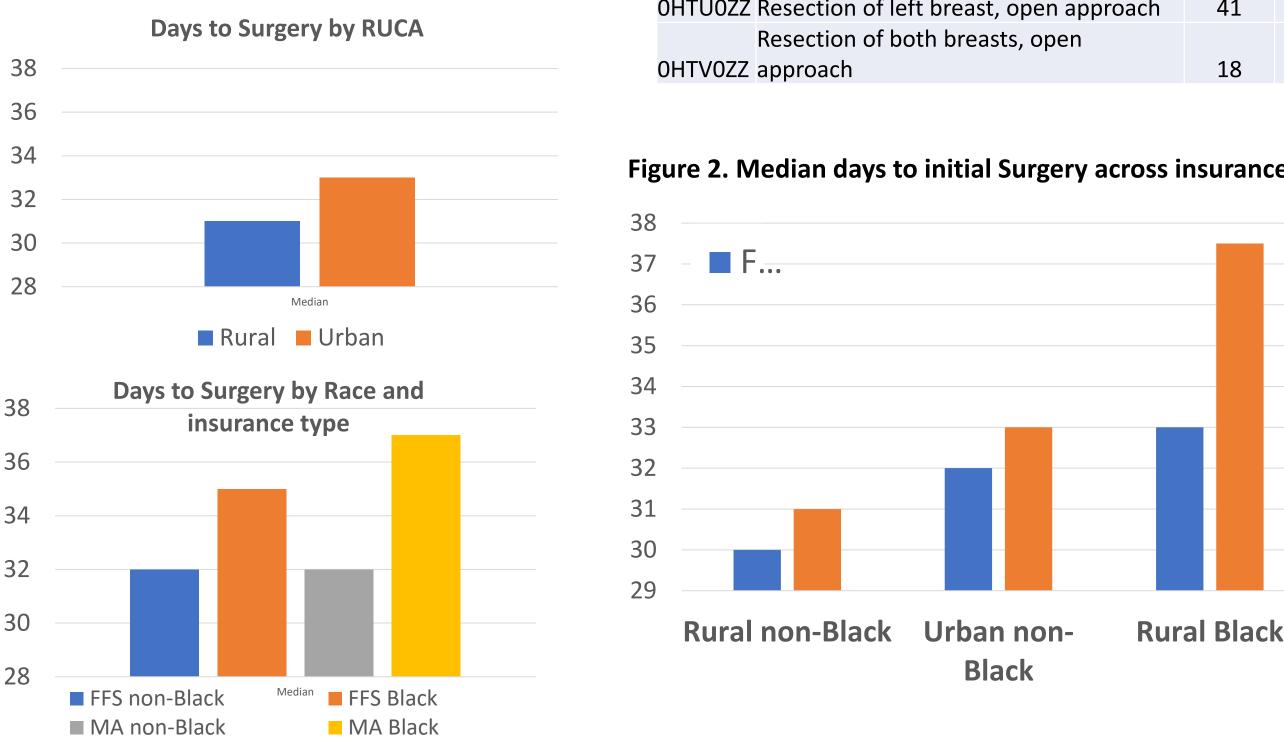
RESULTS

Distribution of	f characteristics in Fee	-for-service and A	dvantage enro	ollees (N=8,11	6)	Table	2. Frequency of breast conserving surg	gery cod	les by in	surance	2.
		FFS (n=4,942)		MA (n=3,174)				F	FS	N	IA
		n	%	n	%	CODE	Label	n	%	n	%
agnosis	Median, IQR	72	68, 77	71	68, 76	19301	Partial Mastectomy	4,690	80.97	2,995	81.59
	Not Black	4,153	84.03	2,504	2,504 78.89						
	Black	759	15.36	650	20.48	19125	Excision Breast Lesion	573	9.89	360	9.81
Ethnicity	Not Hispanic	4,853	98.2	3,115	98.14	19302	Partial mastectomy w/LN Removal	288	4.97	176	4.79
	Hispanic	32	0.65	33	1.04	19120	Removal of Breast Lesion	199	3.44	108	2.94
P code	No	1,406	28.45	691	21.77	19126					
	Yes	3,536	71.55	2,483	78.23		Excision, Addl Breast Lesion	20	0.35	15	0.41
ter	1	938	18.98	488	15.37	Table 3. Frequency of mastectomy surgery codes by insurance					
	2	1,221	24.71	803	25.3						
	3	1,727	34.95	1,137	35.82			FFS		MA	
	4	1,008	20.4	719	22.65	CODE	Label	n	%	n	%
diagnosis	1	3,833	77.56	2,488	78.39	19303	Mastectomy, Simple Complete	1,041	63.63	598	63.35
	2	980	19.83	606	19.09	19307	Mastastamy Madified Padical		26.47	256	27.12
	3	129	2.61	80	2.52		Mastectomy, Modified Radical	433	20.47	250	27.12
1. Median days to initial Surgery across patient characteristics					OHTTOZZ	Z Resection of right breast, open approach	47	2.87	16	1.69	
				OHTUOZ	Z Resection of left breast, open approach	41	2.51	25	2.65		
Days to Surgery by Race Days to Surgery by RUCA					Resection of both breasts, open						
38					OHTVOZ	Z approach	18	1.1	11	1.17	



ays to surgery By Race and Rurality





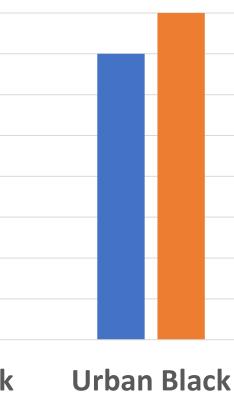
CONCLUSIONS

e found racial and geographic enrollment differences between the two types Medicare within North Carolina.

ithin insurance type, we observed racial differences in time to initial surgery. rther work is needed to examine whether the quality of services provided by ese plan types are similar across race/ethnicity and geography.

CIPHR

Figure 2. Median days to initial Surgery across insurance, race, and rurality



ACKNOWLEDGEMENTS

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