

Utilization of Radiography Services in an Academic Medical Center Partnership with a Federally Qualified Health Center Network: A Cross Sectional Study

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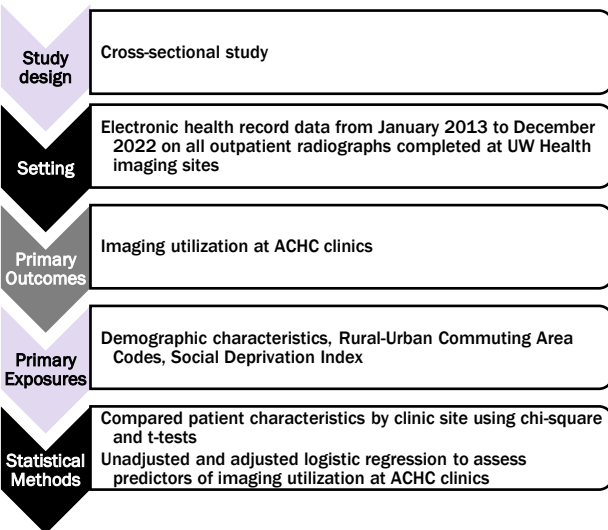
Background

- Federally Qualified Health Centers (FQHCs) serve medically underserved populations
- In 2013, UW Health, the integrated health system of the University of Wisconsin, partnered with Access Community Health Centers (ACHC), the FQHC network in Madison, WI to provide on-site outpatient imaging services

Purpose

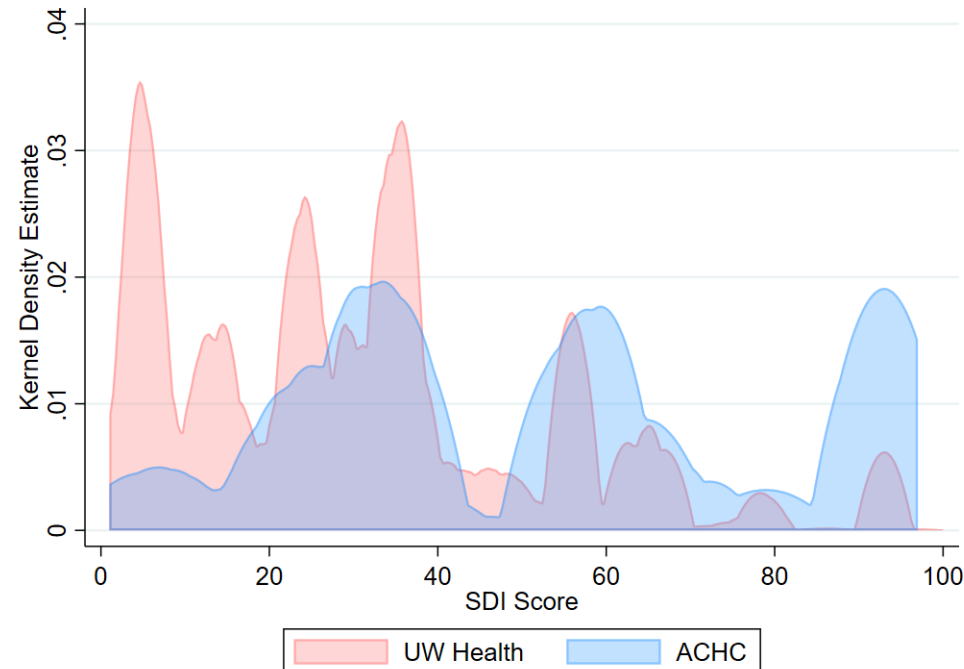
- This study characterized the utilization of radiography services associated with the UW Health-ACHC partnership in comparison with other UW Health outpatient imaging sites

Methods



Partnerships between academic institutions and FQHCs can *increase* geographic imaging access among medically underserved populations.

Figure 1. Distribution of Social Deprivation Index (SDI) scores between patients seen at Access Community Health Centers (ACHC) clinics versus patients seen only at non-ACHC UW Health clinics.



- Patients at ACHC clinics more often lived in areas with higher social deprivation ($p < 0.001$)

Table 1. Patient characteristics by UW Health or Access Community Health Centers (ACHC) group (N = 246,104)

	UW Health (n = 235,118)	ACHC (n = 10,986)	p-value
Age (years), mean (sd)	42 (22)	41 (19)	<0.001
Imaging type, n (%)			
Musculoskeletal x-ray	158,115 (67)	7,445 (68)	
Chest x-ray	59,229 (25)	3,068 (28)	<0.001
Abdominal x-ray	16,165 (7)	448 (4)	
Other x-ray	1,609 (0.7)	25 (0.2)	
Female, n (%)	124,731 (53)	6,082 (55)	<0.001
Race/ethnicity, n (%)			
White	198,486 (84)	3,950 (36)	
Black or African American	11,892 (5)	2,377 (22)	
Hispanic/Latino	10,234 (4)	3,745 (34)	<0.001
Asian	7,885 (3)	506 (5)	
American Indian or Alaska Native	681 (0.3)	45 (0.4)	
Other	5,940 (3)	363 (3)	
Insurance, n (%)			
Commercial	160,648 (68)	4,060 (37)	
No insurance	8,819 (4)	1,958 (18)	<0.001
Medicare	41,201 (18)	1,290 (12)	
Medicaid	20,785 (9)	3,635 (33)	
Other	3,665 (2)	43 (0.4)	
Metropolitan Rural-Urban Commuting Area (RUCA) code, n (%)	206,873 (88)	10,805 (98)	<0.001
Social Deprivation Index (SDI) score, mean (sd)	31 (22)	53 (28)	<0.001
Married or partner, n (%)	105,835 (45)	3,372 (31)	<0.001
Preferred language not English, n (%)	4,560 (2)	3,195 (29)	<0.001

Figure 2. Odds of utilization of radiographic imaging services at Access Community Health Centers by patient characteristics

