

Supplementary materials

Table S1. Access levels to mammography calculated by E2SFCA excluding 50% of eligible American Indian or Alaska Native women: Oklahoma 2024

Level of spatial access	Block groups number (%)	Women \geq40 years old number (%)	Areal size km² (%)
High	1,000 (29.6)	246,969 (26.3)	1,677 (0.9)
Moderate	995 (29.5)	316,421 (33.7)	16,374 (9.0)
Low	1,007 (29.8)	279,497 (29.8)	69,763 (38.5)
Zero	372 (11.0)	95,905 (10.2)	93,225 (51.5)
Total	3,374	938,792	181,038

Figure S1. An enhanced two-step floating catchment analysis (E2SFCA) output block groups by high, moderate, low, and zero quartiles by block group recommended women aged 40 and older excluding 50% of eligible American Indian or Alaska Natives women Oklahoma 2024

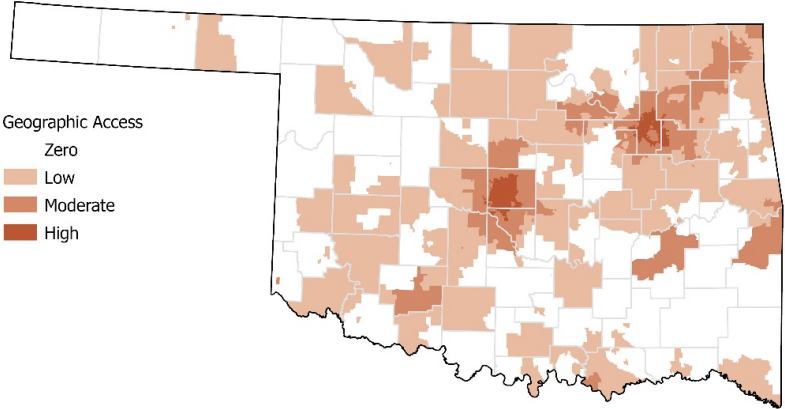


Figure S2. An enhanced two-step floating catchment analysis (E2SFCA) output block groups by high, moderate, low, and zero quartiles by block group recommended women aged 40 or more removing 20% American Indian or Alaska Native women: Oklahoma 2024

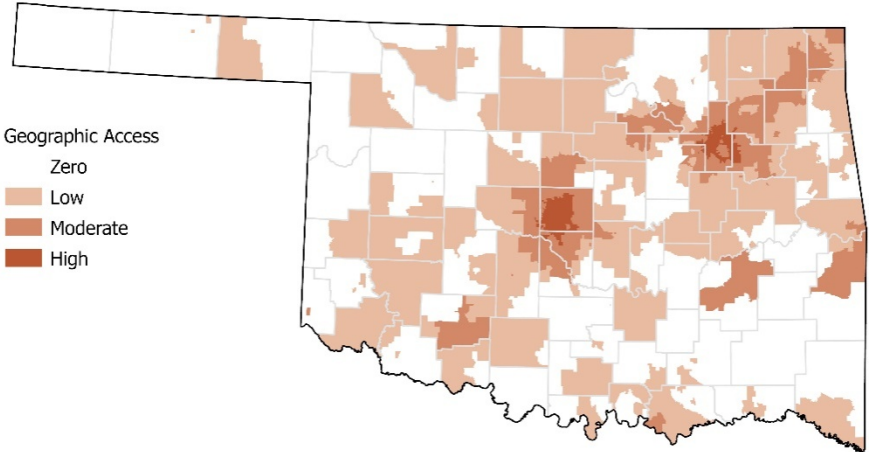


Table S2. Access levels to mammography by areal residency for women calculated by E2SFCA excluding 50% of eligible American Indian or Alaska Native women: Oklahoma 2024

Area	E2SFCA			
	High	Moderate	Low	Zero
	number (%)			
Block group				
Urban	1,000 (100)	880 (88.4)	250 (24.8)	66 (17.7)
Large rural		78 (7.8)	496 (49.3)	78 (21.0)
Small rural		37 (3.7)	261 (25.9)	228 (61.3)
Population				
Urban	246,969 (100%)	282,117 (89.2)	74,326 (26.6)	19,285 (20.1)
Large rural		25,129 (7.9)	139,322 (49.8)	19,012 (19.8)
Small rural		9,175 (2.9)	65,849 (23.6)	57,608 (60.1)
Arial size (km²)				
Urban	1,677 (100%)	10,342 (63.2)	17,180 (24.6)	11,055 (11.9)
Large rural		4,315 (26.4)	21,827 (31.3)	11,626 (12.5)
Small rural		1,717 (10.5)	30,756 (44.1%)	70,544 (75.7)

Table S3. Access levels to mammography calculated by E2SFCA excluding 20% of eligible American Indian or Alaska Native women: Oklahoma 2024

Level of spatial access	Block groups	Women ≥ 40 years old	Areal size
	number (%)	number (%)	km ² (%)
High	1,000 (29.6)	247,523 (26.3)	1,677 (0.9)
Moderate	995 (29.5)	316,842 (33.7)	16,374 (9.0)
Low	1,007 (29.8)	279,956 (29.8)	69,763 (38.5)
Zero	372 (11.0)	96,052 (10.2)	93,225 (51.5)
Total	3,374	940,373	181,038

Table S4. Access levels to mammography by areal residency for women calculated by E2SFCA excluding 20% of eligible American Indian or Alaska Native women: Oklahoma 2024

Area	E2SFCA			
	High	Moderate	Low	Zero
	number (%)			
Block group				
Urban	1,000 (100)	880 (88.4)	250 (24.8)	66 (17.7)
Large Rural		78 (1.8)	496 (49.3)	78 (21.0)
Small Rural		37 (3.7)	261 (25.9)	228 (61.3)

Population				
Urban	247,523 (100)	282,490 (89.2)	74,422 (26.6)	19,308 (20.1)
Large Rural		25,162 (7.9)	139,554 (49.8)	19,052 (19.8)
Small Rural		9,190 (2.9)	65,980 (23.6)	57,692 (60.1)
Arial size (km²)				
Urban	1,677 (100)	10,342 (63.2)	17,180 (24.6)	11,055 (11.9)
Large Rural		4,315 (26.4)	21,827 (31.3)	11,626 (12.5)
Small Rural		1,717 (10.5)	30,756 (44.1)	70,544 (75.7)