## Appendix A

## 2013 Rural-urban Continuum Codes (RUCC)

Metrop	Metropolitan Counties		
Code	Description		
1	Counties in metro areas of 1 million population or more		
2	Counties in metro areas of 250,000 to 1 million population		
3	Counties in metro areas of fewer than 250,000 population		
Nonme	Nonmetropolitan Counties		
4	Urban population of 20,000 or more, adjacent to a metro area		
5	Urban population of 20,000 or more, not adjacent to a metro area		
6	Urban population of 2,500 to 19,999, adjacent to a metro area		
7	Urban population of 2,500 to 19,999, not adjacent to a metro area		
8	Completely rural or less than 2,500 urban population, adjacent to a metro area		
9	Completely rural or less than 2,500 urban population, not adjacent to a metro area		

*Source:* Economic Research Service, US Department of Agriculture. https://www.ers.usda.gov/data-products/rural-urban-continuum-codes/documentation/

## Categorical primary variables in quartiles

Variable:	1 <sup>st</sup> quartile	2 <sup>nd</sup> quartile	3 <sup>rd</sup> quartile	4 <sup>th</sup> quartile
Active MDs and DOs	0-2	3-6	6-18	19+
Primary care physicians	0-1	2-4	5-9	10+

Kansas Counties by 2013 RUCC and Rurality Categories Used in this Study Study code key:

- 1. Urban
- 2. Rural
- 3. Frontier

Kansas county:	2013 RUCC:	Rurality
		<b>Categories:</b>
Allen	7	3
Anderson	6	2
Atchison	6	2
Barber	9	3
Barton	7	3
Bourbon	6	2
Brown	6	2
Butler	2	1
Chase	9	3
Chautauqua	8	3

Cherokee	6	2
Cheyenne	9	3
Clark	9	3
Clay	6	2
Cloud	7	3
Coffey	6	2
Comanche	9	3
Cowley	4	2
Crawford	4	2
Decatur	9	3
Dickinson	7	3
Doniphan	3	1
Douglas	3	1
Edwards	9	3
Elk	8	3
Ellis	5	2
Ellsworth	7	3
Finney	5	2
Ford	5	2
Franklin	6	2
Geary	4	2
Gove	9	3
Graham	9	3
Grant	7	3
Gray	9	3
Greeley	9	3
Greenwood	6	2
Hamilton	9	3
Harper	8	3
Harvey	2	1
Haskell	9	3
Hodgeman	9	3
Jackson	3	1
Jefferson	3	1
Jewell	9	3
Johnson	1	1
Kearny	9	3
Kingman	2	1
Kiowa	9	3

Labette	7	3
Lane	9	3
Leavenworth	1	1
Lincoln	9	3
Linn	1	1
Logan	9	3
Lyon	4	2
Marion	7	3
Marshall	6	2
McPherson	6	2
Meade	9	3
Miami	1	1
Mitchell	7	3
Montgomery	5	2
Morris	8	3
Morton	9	3
Nemaha	6	2
Neosho	7	3
Ness	9	3
Norton	7	3
Osage	3	1
Osborne	9	3
Ottawa	9	3
Pawnee	7	3
Phillips	7	3
Pottawatomie	3	1
Pratt	7	3
Rawlins	9	3
Reno	4	2
Republic	9	3
Rice	7	3
Riley	3	1
Rooks	9	3
Rush	9	3
Russell	7	3
Saline	5	2
Scott	7	3
Sedgwick	2	1
Seward	5	2

Shawnee	3	1
Sheridan	9	3
Sherman	7	3
Smith	9	3
Stafford	9	3
Stanton	9	3
Stevens	7	3
Sumner	2	1
Thomas	7	3
Trego	9	3
Wabaunsee	3	1
Wallace	9	3
Washington	9	3
Wichita	9	3
Wilson	7	3
Woodson	9	3
Wyandotte	1	1

Source: Area Health Resource File, 2018-2019 release. <u>https://data.hrsa.gov/topics/health-workforce/ahrf</u>