



Paul Coverdell National Acute Stroke Program Grant

*Implementing the Kentucky Stroke
Improvement Cooperative (KSIC)
to Advance Stroke Care Across the
Care Continuum in Kentucky*

COVERDELL AIM

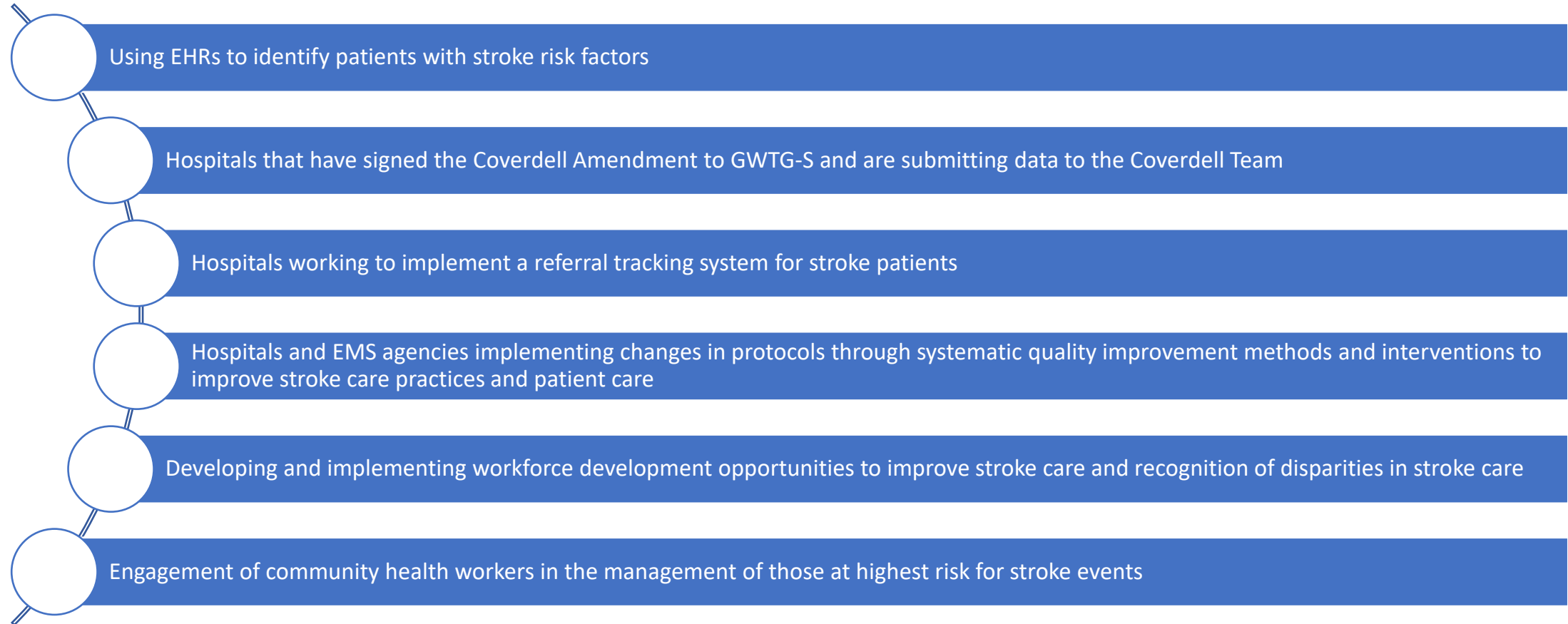
Purpose

- Coordination and expansion of existing efforts in Kentucky to improve stroke-related health outcomes
- Work with Kentucky health care systems and community providers to implement comprehensive stroke systems
 - Prevention in high risk populations
 - Optimize care delivery for those who have had a stroke

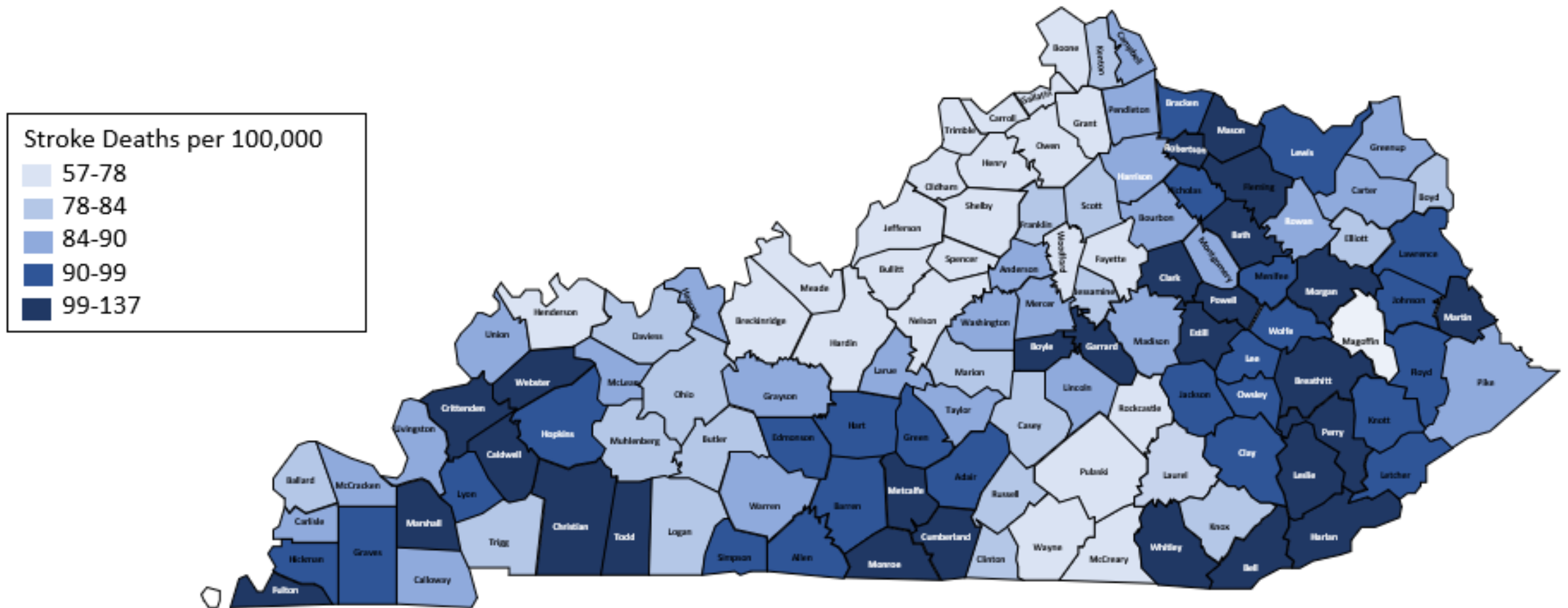
Strategy

- Creation of the Kentucky Stroke Improvement Cooperative (KSIC)
- Initially target counties with highest stroke mortality

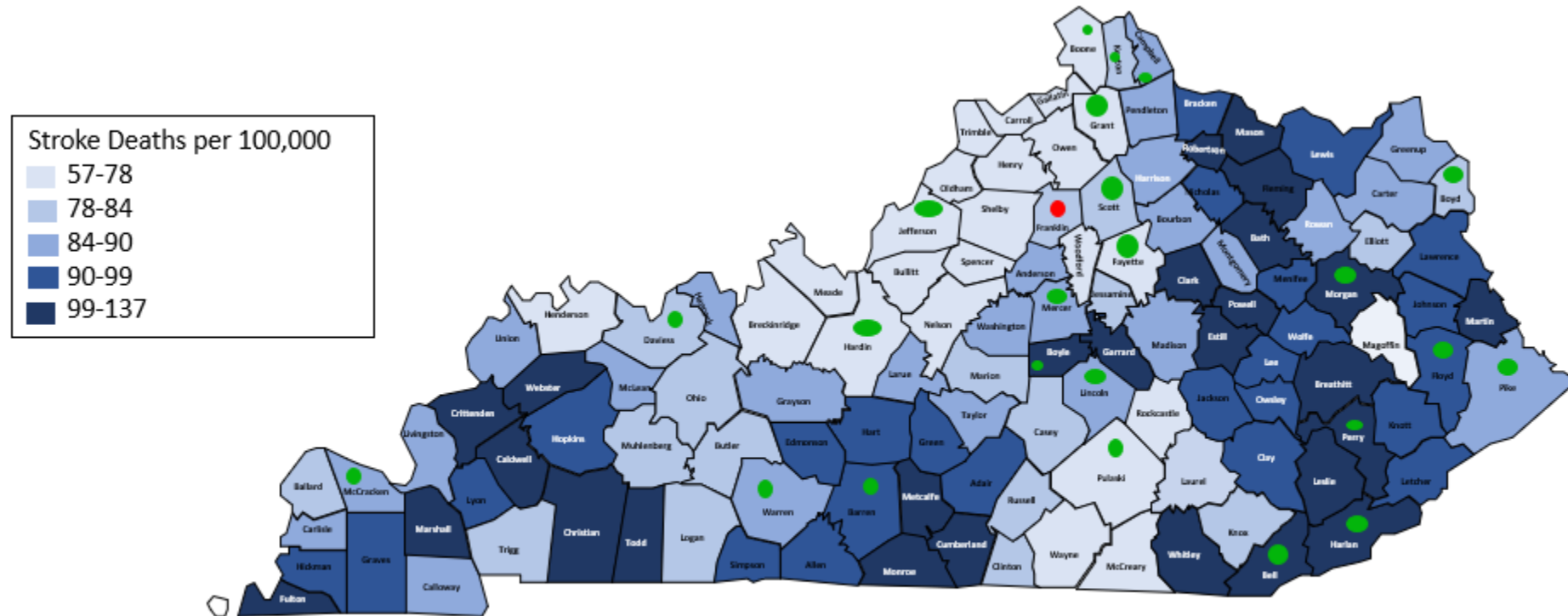
IMPLEMENTING THE COVERDELL GRANT



STROKE MORTALITY RATES IN KENTUCKY



HOSPITALS SHARING GWTG-S DATA



MATCHING RATES 2021 & 2022

2021

	EMS Arrival	R1 Match	R2 Match	Total	Match %
January	428	115	226	341	79.67%
February	330	90	191	281	85.15%
March	384	90	212	302	78.65%
April	376	113	192	305	81.12%
May	393	132	192	324	82.44%
June	390	143	191	334	85.64%
July	369	93	201	294	79.67%
August	407	113	221	334	82.06%
September	391	105	214	319	81.59%
October	388	120	194	314	80.93%
November	396	119	214	333	84.09%
December	427	127	221	348	81.50%
Total	4679	1360	2469	3829	81.83%

2022

	EMS Arrival	R1 Match	R2 Match	Total	Match %
January	438	123	236	359	81.96%
February	379	110	206	316	83.38%
March	397	98	226	324	81.61%
April	435	105	260	365	83.91%
May	410	105	230	335	81.71%
June	376	88	212	300	79.79%
July	406	102	219	321	79.06%
August	427	125	223	348	81.50%
September	411	89	184	273	66.42%
October	406	108	204	312	76.85%
November	410	103	221	324	79.02%
December	461	131	204	335	72.67%
Total	4956	1287	2625	3912	78.93%

CURRENT 2023 MATCHING RATES

Month	EMS Arrival	R1 Match	R2 Match	Total	Match %
January	447	96	243	339	75.84%
February	406	104	217	321	79.06%
March	435	79	261	340	78.16%
April	367	66	205	271	73.84%
May	350	75	203	278	79.43%
June	165	32	98	130	78.79%
Total	2170	452	1227	1679	77.37%

GWTG-S STROKE RISK FACTORS & PERFORMANCE OF SDOH

Risk Factor	YR 1 (n=11,060)	YR 2 (n=11,063)	Percent Change
Age	11,056 (99.96%)	11,061 (99.98%)	0.02%
Sex	11,056 (100%)	11,062 (100%)	0.00%
Race	10,133 (91.62%)	9,707 (87.74%)	-3.88%
Systolic BP	7,942 (71.81%)	8,333 (75.32%)	3.51%
Diastolic BP	7,940 (71.79%)	8,329 (75.29%)	3.50%
Cholesterol	5,774 (52.21%)	5,853 (52.91%)	0.70%
Triglycerides	5,774 (52.21%)	5,851 (52.89%)	0.68%
HDL	5,773 (52.2%)	5,851 (52.89%)	0.69%
LDL	8,574 (77.52%)	8,332 (75.31%)	-2.21%
SDOH Assessment	2,752 (24.88%)	3,089 (27.92%)	3.04%

EMS DOCUMENTATION OF STROKE RISK FACTORS

Risk Factors	YR 1 (n=3,935)	YR 2 (n=3,608)	Percent Change
Age	3,395 (100%)	3,608 (100%)	0.00%
Sex	3,932 (99.9%)	3,607 (100%)	0.01%
Race	3,931 (99.9%)	3,607 (100%)	0.01%
Systolic BP	1,829 (46.48%)	2,076 (57.54%)	11.06%
Diastolic BP	1,814 (46.1%)	2,059 (57.07%)	10.97%
Blood Glucose	960 (24.4%)	955 (26.47%)	2.07%



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QUALITY IMPROVEMENT ACTIVITIES

Hospitals

Door in Door Out

Communication

Improvement to Order Sets

Dysphagia Screening

TNK Administration

In Hospitals Code Stroke Alerts

EMS

Documentation

Communication



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Tableau Reports

Age

Patient Arrival / Prehospital Notification		
EMS Transportation		Self Transportation
No Notification	Notification	.
70.61 +- 14.10	70.92 +- 13.94	66.07 +- 13.90

Gender

Sex	Patient Arrival / Prehospital Notification		
	EMS Transportation		Self Transporta..
	No Notification	Notification	.
Female	2601 (25.19%)	3408 (33.01%)	4316 (41.80%)
Male	2453 (24.40%)	3045 (30.28%)	4557 (45.32%)

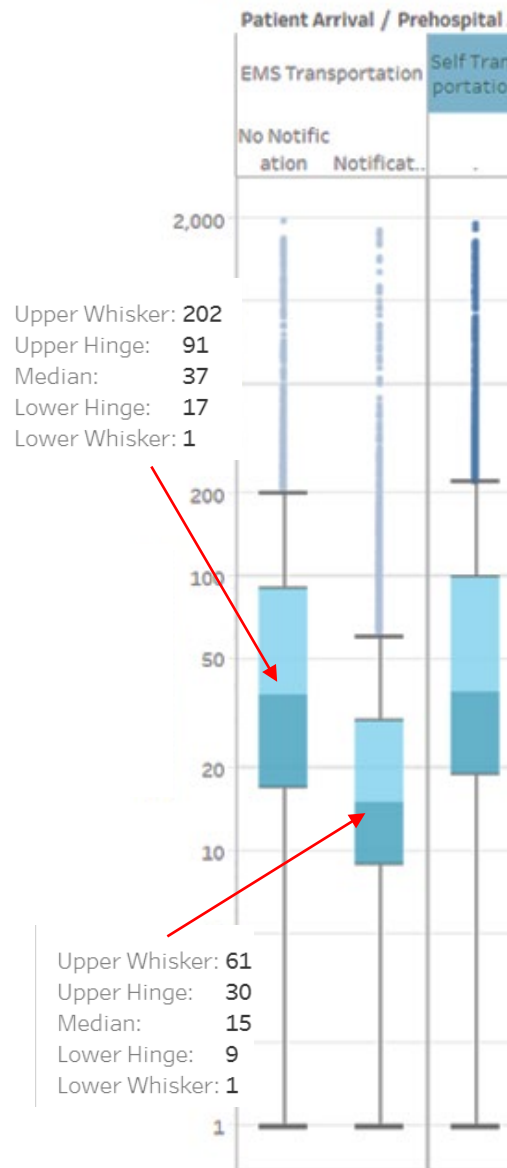
Stroke Type Prenot

Stroketype	Patient Arrival / Prehospital Notification		
	EMS Transportation		Self Transport
	No Notification	Notification	.
Intracerebral Hemorrhage	610 (34.98%)	706 (40.48%)	428 (24.54%)
Ischemic Stroke	3940 (24.75%)	5111 (32.10%)	6870 (43.15%)
No stroke related diagnosis	9 (22.50%)	13 (32.50%)	18 (45.00%)
Stroke not otherwise speci..	17 (22.37%)	17 (22.37%)	42 (55.26%)
Subarachnoid Hemorrhage	159 (37.32%)	105 (24.65%)	162 (38.03%)
Transient Ischemic Attack ..	321 (14.74%)	501 (23.00%)	1356 (62.26%)

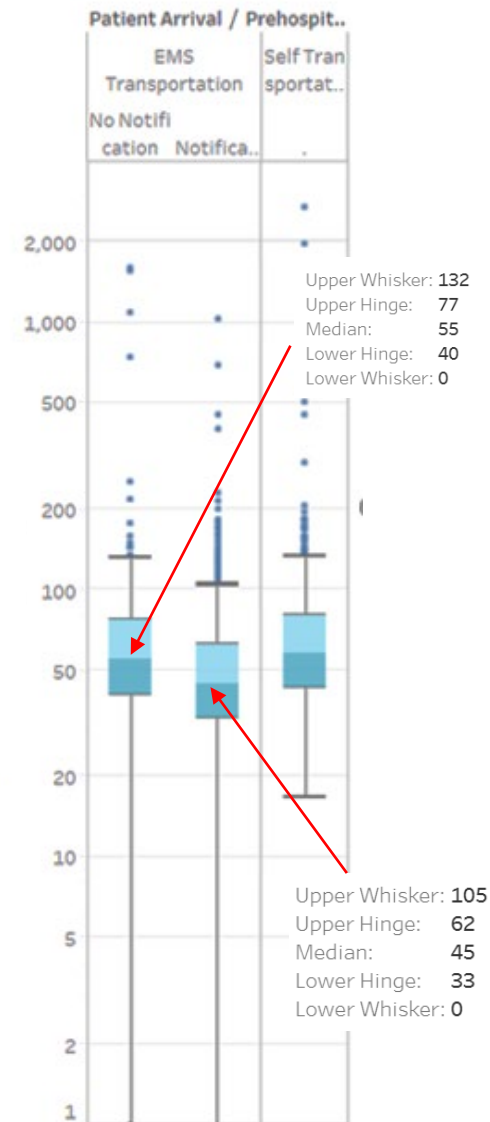
NIHSS Score

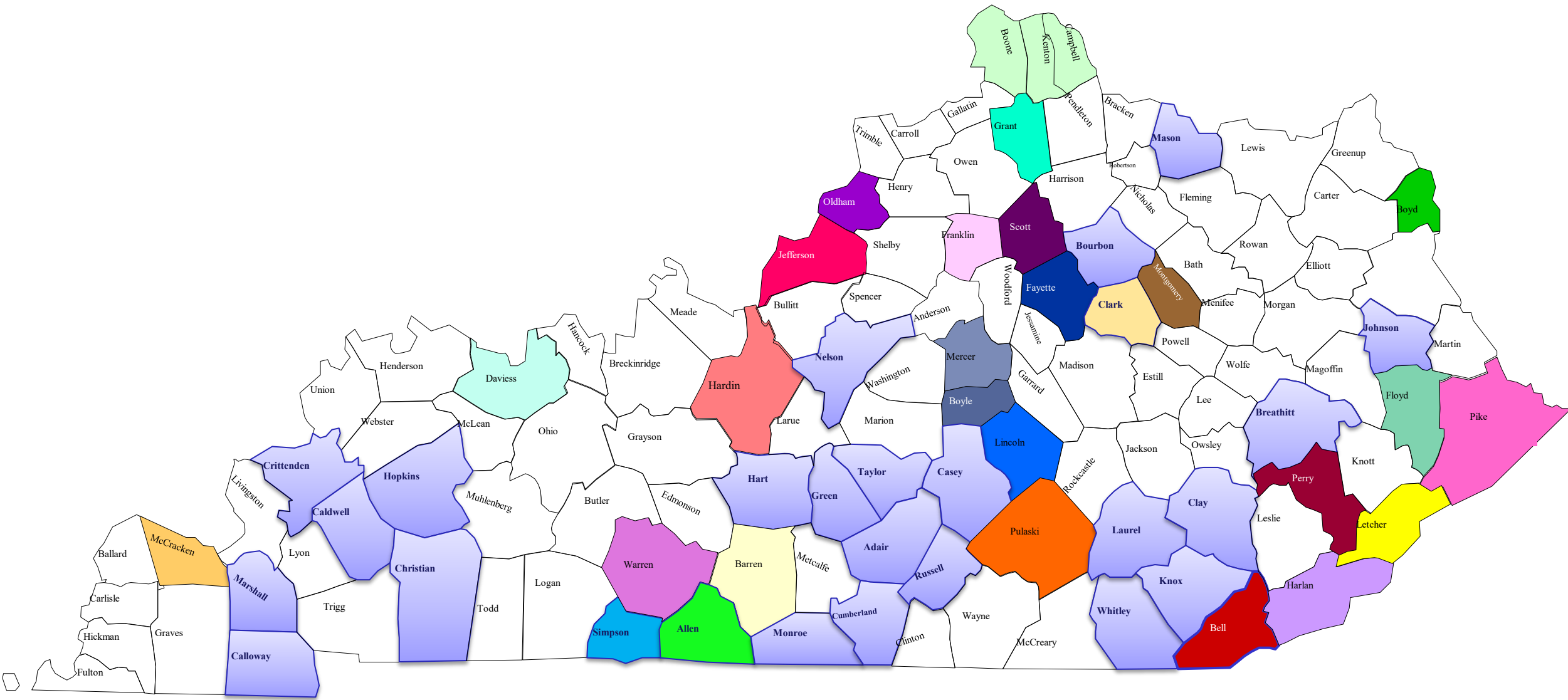
Patient Arrival / Prehospital Notification		
EMS Transportation		Self Transportation
No Notification	Notification	.
7.59 +- 8.78	9.61 +- 8.92	2.84 +- 12.03

Door to CT Time



Door to Thrombolytic Time





RECOGNIZING IMPLICIT BIAS

WELLNESSEQUITY ALLIANCE &
THE KENTUCKY COVERDELL TEAM PRESENT



WEA
The Future of Public Health

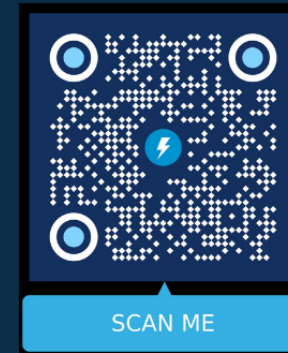


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