

Hospital Acquired Condition Reduction Program – FY 2020

Implications for Rural Hospitals

April 28, 2020

Session Agenda

- **Overview of Hospital-Acquired Condition Reduction Program (HACRP).**
- **HACRP penalties in each state's rural hospitals.**
- **Methodological issues in the HACRP – implications for rural hospitals performance measurement.**
- **State HACRP profiles – *what they contain and how to use them.***
- **Summary.**

Hospital-Acquired Condition Reduction Program (HACRP)

- The HACRP is a Medicare performance-based payment adjustment which assesses IPPS hospital performance related to patient safety and hospital acquired infections (HAIs). Based upon an annual assessment, the lowest performing hospitals are penalized 1% of their Medicare payment rate for a full year.
- THE HACRP excludes facilities in several hospital categories, including: Critical access hospitals (CAHs), rehabilitation hospitals and units, long-term care hospitals (LTCHs), psychiatric hospitals and units, children's hospitals, Prospective Payment System (PPS)-exempt cancer hospitals and Veterans Affairs (VA) hospitals.
- HACRP measures hospital performance in 6 separate domains – a patient safety combined index and five health care associated infection measures.

HACRP Patient Safety Measures – PSI (90)

- **CMS Patient Safety Indicator (PSI) 90** - CMS calculates the CMS PSI 90 measure using Medicare Fee-for-service claims for discharges from July 1, 2016 through June 30, 2018. The CMS PSI 90 measure includes:
 - PSI 03 — Pressure Ulcer Rate.
 - PSI 06 — Iatrogenic Pneumothorax Rate.
 - PSI 08 — In-Hospital Fall with Hip Fracture Rate.
 - PSI 09 — Perioperative Hemorrhage or Hematoma Rate.
 - PSI 10 — Postoperative Acute Kidney Injury Requiring Dialysis Rate.
 - PSI 11 — Postoperative Respiratory Failure Rate.
 - PSI 12 — Perioperative Pulmonary Embolism or Deep Vein Thrombosis Rate.
 - PSI 13 — Postoperative Sepsis Rate.
 - PSI 14 — Postoperative Wound Dehiscence Rate.
 - PSI 15 — Unrecognized Abdominopelvic Accidental Puncture/Laceration Rate.

HACRP Care-Related Infection Measures

- CMS calculates the following HAI measures using chart-abstracted surveillance data reported to the National Healthcare Safety Network (NHSN) for infections from January 1, 2017 through December 31, 2018:
 - Central Line-Associated Bloodstream Infection (CLABSI)
 - Catheter-Associated Urinary Tract Infection (CAUTI)
 - Surgical Site Infection (SSI) (colon and hysterectomy)
 - Methicillin-resistant Staphylococcus aureus (MRSA) bacteremia
 - Clostridium difficile Infection (CDI)

HACRP Domain and Total HAC Scoring

- Patient Safety and Infection measures are assessed to produce up to 6 domain scores for each hospital. A hospital's domain scores are subsequently combined into an Total HAC Score.
- A hospital must have a minimum of reportable instances to receive a domain score.
- Weights are applied to each domain score to produce each hospital's Total HAC Score. When a hospital does not have a particular domain score, the weights of other domains are adjusted to produce the Total HAC Score. This methodology is described in a following slide.
- Hospitals are ranked by their Total HAC Score and hospitals in the lowest quartile of all scored hospitals are subject to a 1% performance penalty.

HACRP Weighted Scoring Methodology

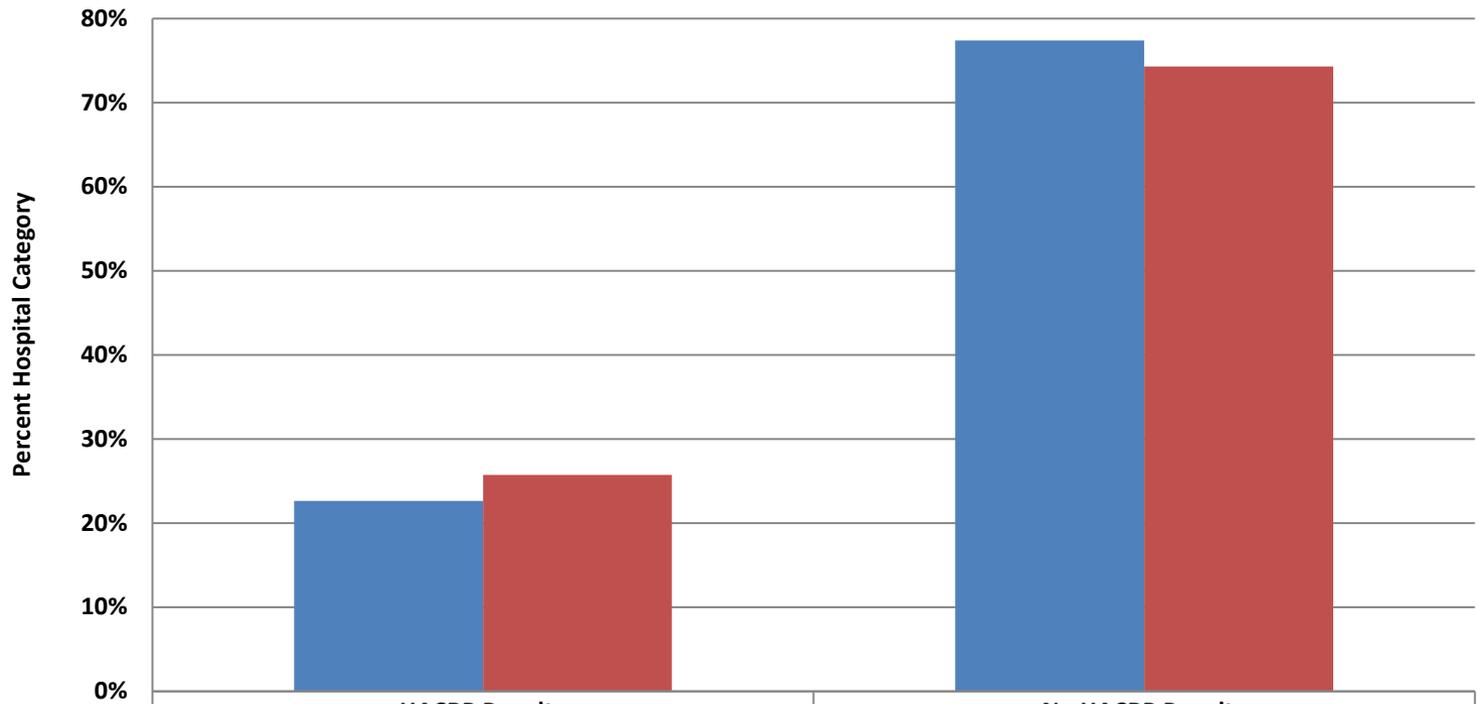
- With the Equal Measure Weights approach, CMS calculates each hospital's Total HAC Score as the equally weighted average of each hospital's available domain measure scores.

Table 4 – Weights applied to each Winsorized z-score under Equal Measure Weights approach.

Number of Measures with a Winsorized z-score	Weight Applied to Each Winsorized z-score (as a percentage)
0	N/A
1	100.0
2	50.0
3	33.3
4	25.0
5	20.0
6	16.7

- Note that a hospital need only have measurements in one of six domains to receive a Total HAC Score.

Hospitals With HACRP Penalty - FY 2020



■ Rural Hospitals

22.6%

77.4%

■ Urban Hospitals

25.7%

74.3%

- For FY 2020 174 rural hospitals and 612 urban hospitals were scored under the HACRP.
- 22.6% of scored rural hospitals and 25.7% of scored urban hospitals were penalized.
- These are comparable percentages for rural and urban hospitals.

HACRP Penalties in the States

- There is substantial variation between states in the percent of rural IPPS hospitals subject to the HACRP penalty for FY 2020.
- In 11 states one-third or more of the rural IPPS hospitals are penalized under the HACRP in FY 2020.
- In a different 11 states fewer than one in eight rural IPPS hospitals are subject to a penalty for FY 2020.
- These percentages are displayed in the following charts. They suggest potential focal points for targeting quality improvement efforts.

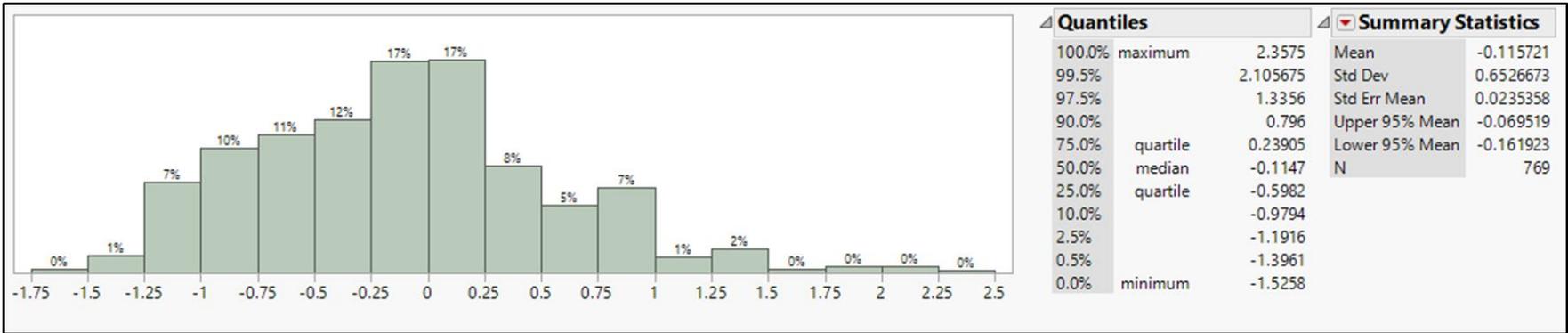
Rural Hospitals Penalized Under HACRP - 1

State	Rural Hospitals	Penalized Rural Hospitals	PCT Rural Penalized
AK	3	2	66.7%
CT	2	1	50.0%
UT	6	3	50.0%
WA	4	2	50.0%
IA	14	6	42.9%
LA	24	10	41.7%
MN	17	7	41.2%
WY	8	3	37.5%
CO	11	4	36.4%
IN	17	6	35.3%
AZ	6	2	33.3%
MO	23	7	30.4%
NY	25	7	28.0%
NC	30	8	26.7%
HI	4	1	25.0%
KY	40	10	25.0%
NE	8	2	25.0%
NH	4	1	25.0%
SC	12	3	25.0%
VT	4	1	25.0%
WI	16	4	25.0%
GA	38	9	23.7%
OH	34	8	23.5%

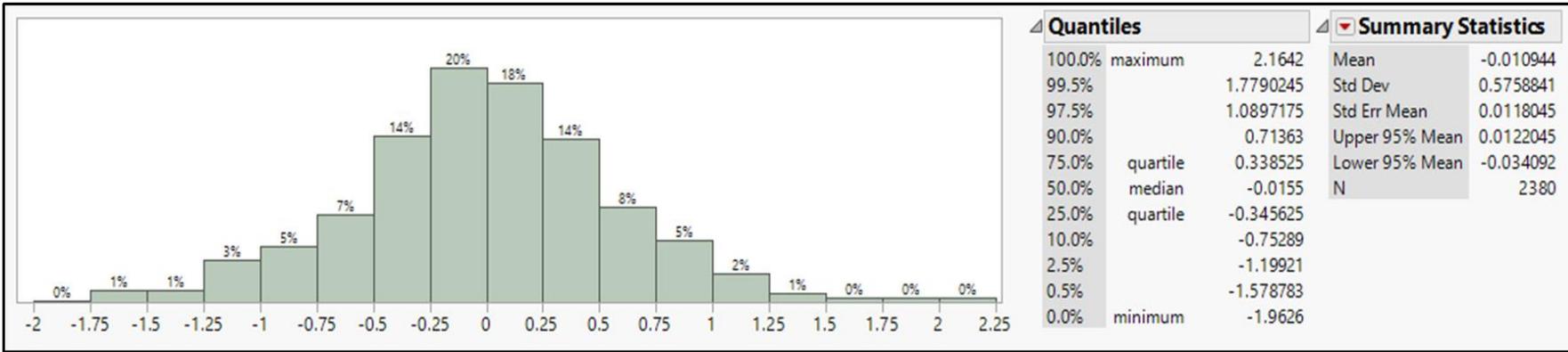
Rural Hospitals Penalized Under HACRP - 2

State	Rural Hospitals	Penalized Rural Hospitals	PCT Rural Penalized
IL	22	5	22.7%
TN	31	7	22.6%
CA	9	2	22.2%
SD	10	2	20.0%
KS	21	4	19.0%
OK	33	6	18.2%
TX	62	11	17.7%
MS	40	7	17.5%
AL	35	6	17.1%
VA	18	3	16.7%
WV	12	2	16.7%
NM	19	3	15.8%
ME	8	1	12.5%
PA	25	3	12.0%
FL	9	1	11.1%
AR	20	2	10.0%
MI	25	2	8.0%
ID	2	0	0.0%
MA	2	0	0.0%
MT	8	0	0.0%
ND	2	0	0.0%
NV	1	0	0.0%
OR	5	0	0.0%

Total HAC Score - Rural Hospitals - FY 2020



Total HAC Score - Urban Hospitals - FY 2020

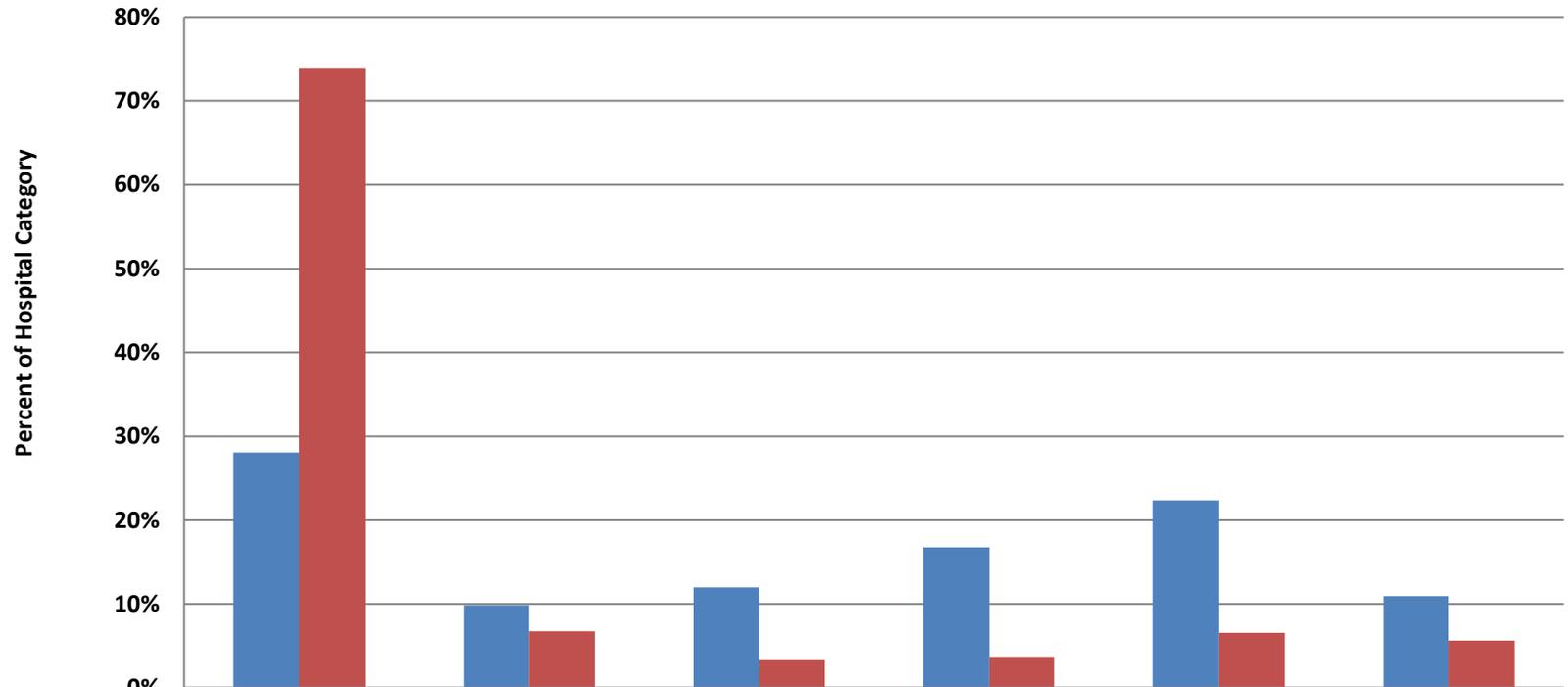


- The distribution of the HAC Total Score displays some differences between rural and urban hospitals.
- The median and mean of the rural hospital scores are lower than those of the urban hospitals [lower is better]. The shape of the distribution shows a larger percent of rural hospitals with lower [better] Total HAC Scores than urban hospitals – note the differences in quartile breaks.
- This would suggest that the overall performance of rural hospitals on HAC issues is better than that of urban hospitals.

HACRP Methodological Issues - 1

- There are several methodological issues which may cloud conclusions about the relative performance of rural/urban hospitals on HAC.
- The missing measure adjustment mechanism for the HACRP is a major complicating factor in interpreting the HAC scores of hospitals. As mentioned previously, while there are 6 different domain scores, a hospital will be receive a Total HAC Score based upon as few as a single domain score.
- As displayed in the following chart, only 28.1% of rural hospitals were scored based upon all 6 domain scores, compared with 73.9% of urban hospitals. Further, more than 50% of rural hospitals were scored on 3 or fewer domains, compared to only 15.9% of urban hospitals.
- The adjustment mechanism used in re-weighting the Total HAC Score for missing measures is resulting in rural and urban hospitals being assessed on very different mixes of HAC measures.

Number of HAC Measures Scored - FY 2020



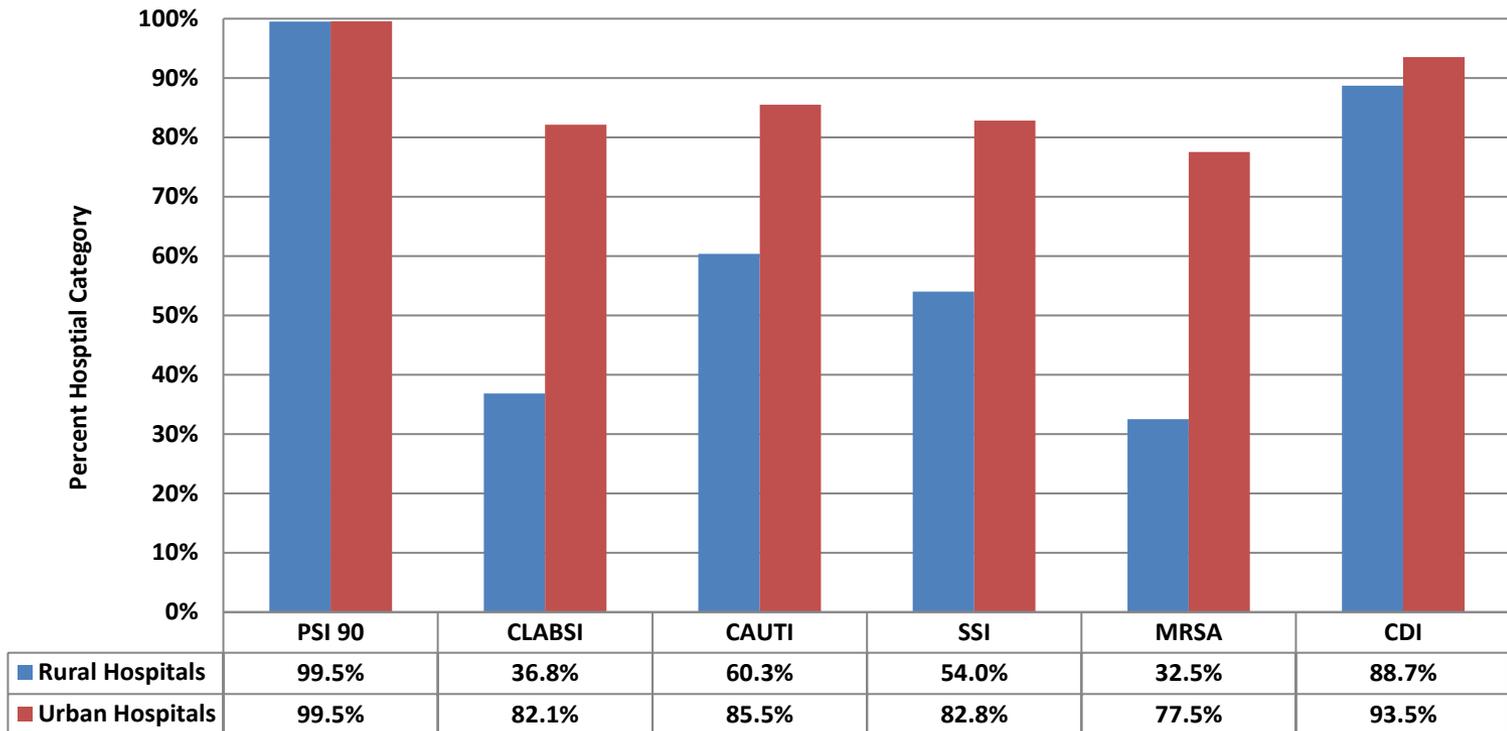
	6	5	4	3	2	1
■ Rural Hospitals	28.1%	9.9%	12.0%	16.8%	22.4%	10.9%
■ Urban Hospitals	73.9%	6.8%	3.4%	3.7%	6.6%	5.6%

- Only 28.1% of rural hospitals are scored on all 6 HAC measures, compared to 73.9% of urban hospitals.
- More than half of rural hospitals are scored on 3 or fewer of the 6 HAC measures compared to only 15.9% of urban hospitals.

HACRP Methodological Issues - 2

- Analysis also shows that rural hospitals and urban hospitals have very different rates of reporting for each of the 6 scoring domains.
- As displayed on the following chart, only 32.5% of rural hospitals had reporting volume sufficient to be scored on the MRSA measure. This compares to 77.5% of urban hospitals.
- Similarly, only 36.8% of rural hospitals had reporting volume sufficient to be scored on the CLABSI measure. This compares to 82.1% of urban hospitals.
- 99.5% of both rural and urban hospitals have been scored on the PSI-90 Patient Safety Index. There is no data on the reporting sufficiency for the multiple measures within that index.

Percent Hospitals Reporting Individual HAC Measures



- Fewer than 1 in 3 rural hospitals had reporting volumes sufficient to be scored on the MRSA measure. This compares with more than three quarters of urban hospitals.
- Only 36.8% of rural hospitals had reporting volumes sufficient to be scored on the CLABSI measure. This compares to more than 80% of urban hospitals.
- Just over half of rural hospitals had reporting volumes sufficient to be scored on the SSI measure. This compares with more than 80% of urban hospitals.

HACRP Methodological Issues - 3

- Note that the evaluations used in HACRP do not measure objective improvement of a hospital against a fixed standard – either a hospital specific performance baseline or normative national standard.
- HACRP uses a comparative measurement of a single hospital against the performance of all hospitals. This is a standard which can change from year to year.
- This continually changing standard of comparison makes HACRP scoring of limited use for assessing multi-year changes in HAC performance of individual hospitals.

Individual State Profile Worksheet - 1

A	B	C	D	E	F	G	H
Facility ID	Facility Name	County/Parish	State	Payment Reduction	Total HAC Score	HAC Score Quartile	Total Missed Measures
450155	HEREFORD REGIONAL MEDICAL CENTER	DEAF SMITH	TX	Yes	2.3575	4	5
670113	HUMBLE SURGICAL HOSPITAL, LLC	HARRIS	TX	Yes	2.1401	4	1
670099	EMIL J FREIREICH CANCER CENTER	MONTGOMERY	TX	Yes	1.7970	4	0
670102	AD HOSPITAL EAST, LLC	HARRIS	TX	Yes	1.7705	4	0
450565	PALO PINTO GENERAL HOSPITAL	PALO PINTO	TX	Yes	1.5273	4	3
450347	HUNTSVILLE MEMORIAL HOSPITAL	WALKER	TX	Yes	1.3973	4	0
450219	BAYLOR SCOTT & WHITE MEDICAL CENTER - LLANO	LLANO	TX	Yes	1.3968	4	5
450694	EL CAMPO MEMORIAL HOSPITAL	WHARTON	TX	Yes	1.2303	4	4
670031	ST LUKE'S PATIENTS MEDICAL CENTER	HARRIS	TX	Yes	1.0942	4	0
670093	ASPIRE BEHAVIORAL HEALTH OF CONROE, LLC	MONTGOMERY	TX	Yes	1.0922	4	4
670115	CLEVELAND EMERGENCY HOSPITAL	LIBERTY	TX	Yes	1.0904	4	4
450042	PROVIDENCE HEALTH CENTER	MC LENNAN	TX	Yes	1.0308	4	0
450803	UNITED MEMORIAL MEDICAL CENTER	HARRIS	TX	Yes	0.9972	4	2
450840	TEXAS HEALTH PRESBYTERIAN HOSPITAL ALLEN	COLLIN	TX	Yes	0.9916	4	1
450755	COVENANT HOSPITAL LEVELLAND	HOCKLEY	TX	Yes	0.9819	4	4

- All Urban and Rural scored hospitals in a state are ranked by Column F Total HAC Score – higher score is worse performing.
- Column H shows the number of measure domains missing – out of 6 possible domains.
- Note filter arrows in column headings.

Individual State Profile Worksheet - 2

I	J	K	L	M	N	O	P	Q	R	S	T	U
PSI 90 Z-Score	PSI 90 Quartile	CLABSI Z-Score	CLABSI Quartile	CAUTI Z-Score	CAUTI Quartile	SSI Z-Score	SSI Quartile	MRSA Z-Score	MRSA Quartile	CDI Z-Score	CDI Quartile	Rural-Urban Description
2.3575	4											RURAL
		2.1941	4	2.1854	4	2.0996	4	2.2502	4	1.9710	4	URBAN
0.0819	3	2.1941	4	2.1854	4	2.0996	4	2.2502	4	1.9710	4	URBAN
-0.0774	3	2.1941	4	2.1854	4	2.0996	4	2.2502	4	1.9710	4	URBAN
0.4254	3			2.1854	4					1.9710	4	RURAL
2.0038	4	1.6928	4	0.9027	4	1.6280	4	2.2502	4	-0.0935	2	RURAL
1.3968	4											RURAL
0.4896	4									1.9710	4	RURAL
0.8736	4	2.1941	4	2.1854	4	-0.1147	2	-0.5444	2	1.9710	4	URBAN
0.0848	3					2.0996	4					URBAN
0.0811	3					2.0996	4					URBAN
1.8966	4	0.8773	4	0.9312	4	-0.0834	3	2.1246	4	0.4384	3	URBAN
-0.1699	2	2.1941	4	1.5982	4					0.3663	3	URBAN
-0.9304	1	0.9648	4	0.8533	4	2.0996	4			1.9710	4	URBAN
-0.0071	3									1.9710	4	RURAL
-0.3127	2	1.2353	4	2.1854	4					0.5736	3	URBAN

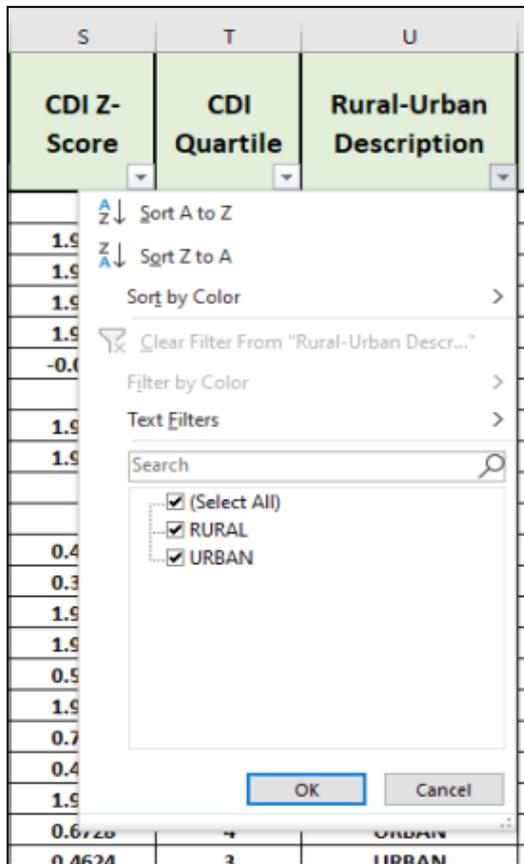
- Columns I thru T provide information on the 6 component measures of the Total HAC Score
- The first column for each measure shows its component score. Positive numbers show worse than national average performance. Negative numbers show better than average performance.
- Scores show the number of standard deviations above or below national average.
- The second column for each measure shows the national quartile for the hospital. The fourth quartile is the worst performing quartile – first quartile is the best.

Selecting Rural Scored Hospitals - 1

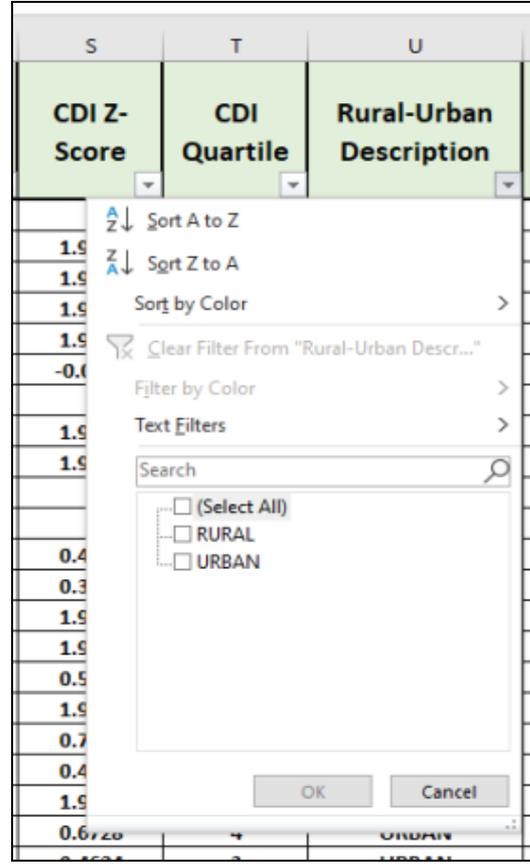
I	J	K	L	M	N	O	P	Q	R	S	T	U
PSI 90 Z-Score	PSI 90 Quartile	CLABSI Z-Score	CLABSI Quartile	CAUTI Z-Score	CAUTI Quartile	SSI Z-Score	SSI Quartile	MRSA Z-Score	MRSA Quartile	CDI Z-Score	CDI Quartile	Rural-Urban Description
2.3575	4											RURAL
		2.1941	4	2.1854	4	2.0996	4	2.2502	4	1.9710	4	URBAN
0.0819	3	2.1941	4	2.1854	4	2.0996	4	2.2502	4	1.9710	4	URBAN
-0.0774	3	2.1941	4	2.1854	4	2.0996	4	2.2502	4	1.9710	4	URBAN
0.4254	3			2.1854	4					1.9710	4	RURAL
2.0038	4	1.6928	4	0.9027	4	1.6280	4	2.2502	4	-0.0935	2	RURAL
1.3968	4											RURAL
0.4896	4									1.9710	4	RURAL
0.8736	4	2.1941	4	2.1854	4	-0.1147	2	-0.5444	2	1.9710	4	URBAN
0.0848	3					2.0996	4					URBAN
0.0811	3					2.0996	4					URBAN
1.8966	4	0.8773	4	0.9312	4	-0.0834	3	2.1246	4	0.4384	3	URBAN
-0.1699	2	2.1941	4	1.5982	4					0.3663	3	URBAN
-0.9304	1	0.9648	4	0.8533	4	2.0996	4			1.9710	4	URBAN
-0.0071	3									1.9710	4	RURAL
-0.3127	2	1.2353	4	2.1854	4					0.5736	3	URBAN

- Scroll to Column U – Rural-Urban Description.
- Click filter arrow in Column U.

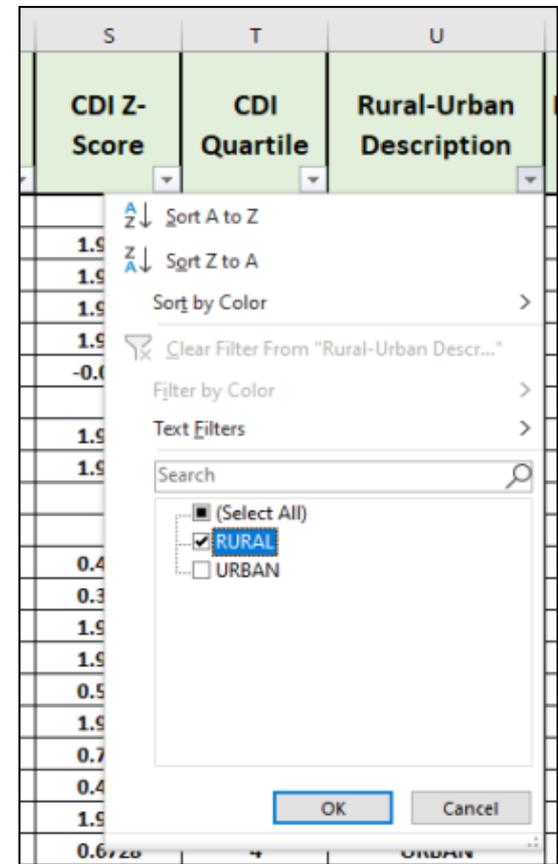
Selecting Rural Scored Hospitals - 2



S	T	U
CDI Z-Score	CDI Quartile	Rural-Urban Description
1.9		
1.9		
1.9		
1.9		
-0.0		
1.9		
1.9		
0.4		
0.3		
1.9		
1.9		
0.5		
1.9		
0.7		
0.4		
1.9		
0.6720	4	URBAN
0.4624	3	URBAN



S	T	U
CDI Z-Score	CDI Quartile	Rural-Urban Description
1.9		
1.9		
1.9		
1.9		
-0.0		
1.9		
1.9		
0.4		
0.3		
1.9		
1.9		
0.5		
1.9		
0.7		
0.4		
1.9		
0.6720	4	URBAN
0.4624	3	URBAN



S	T	U
CDI Z-Score	CDI Quartile	Rural-Urban Description
1.9		
1.9		
1.9		
1.9		
-0.0		
1.9		
1.9		
0.4		
0.3		
1.9		
1.9		
0.5		
1.9		
0.7		
0.4		
1.9		
0.6720	4	URBAN
0.4624	3	URBAN

- Click Select All box. This clears the selection.
- Click Rural box. This will filter out all but rural hospitals.

Selecting Rural Scored Hospitals - 3

Facility ID	Facility Name	County/Parish	State	Payment Reduction	Total HAC Score	HAC Score Quartile	Total Missed Measures	PSI 90 Z-Score	PSI 90 Quartile
450155	HEREFORD REGIONAL MEDICAL CENTER	DEAF SMITH	TX	Yes	2.3575	4	5	2.3575	4
450565	PALO PINTO GENERAL HOSPITAL	PALO PINTO	TX	Yes	1.5273	4	3	0.4254	3
450347	HUNTSVILLE MEMORIAL HOSPITAL	WALKER	TX	Yes	1.3973	4	0	2.0038	4
450219	BAYLOR SCOTT & WHITE MEDICAL CENTER - LLANO	LLANO	TX	Yes	1.3968	4	5	1.3968	4
450694	EL CAMPO MEMORIAL HOSPITAL	WHARTON	TX	Yes	1.2303	4	4	0.4896	4
450755	COVENANT HOSPITAL LEVELLAND	HOCKLEY	TX	Yes	0.9819	4	4	-0.0071	3
450085	GRAHAM REGIONAL MEDICAL CENTER	YOUNG	TX	Yes	0.8292	4	4	-0.3125	2
450370	COLUMBUS COMMUNITY HOSPITAL	COLORADO	TX	Yes	0.5285	4	4	-0.0876	3
450447	NAVARRO REGIONAL HOSPITAL	NAVARRO	TX	Yes	0.4169	4	1	0.7008	4
450508	MEMORIAL HOSPITAL	NACOGDOCHES	TX	Yes	0.4112	4	0	-0.3193	2
450196	PARIS REGIONAL MEDICAL CENTER	LAMAR	TX	Yes	0.3383	4	0	0.1351	3
450539	COVENANT HOSPITAL PLAINVIEW	HALE	TX	No	0.2896	3	2	-1.0385	1
450654	STARR COUNTY MEMORIAL HOSPITAL	STARR	TX	No	0.2186	3	4	-0.2386	2
450007	PETERSON REGIONAL MEDICAL CENTER	KERR	TX	No	0.1823	3	0	2.2247	4
450187	SCOTT & WHITE HOSPITAL BRENHAM	WASHINGTON	TX	No	0.1284	3	3	-0.1189	3
450163	CHRISTUS SPOHN HOSPITAL KLEBERG	KLEBERG	TX	No	0.1123	3	0	0.4920	4
670108	BAYLOR SCOTT & WHITE MEDICAL CENTER - MARBLE FALLS	BURNET	TX	No	0.0915	3	2	0.0707	3
670117	TEXAS GENERAL HOSPITAL- VZRMIC LP	VAN ZANDT	TX	No	0.0844	3	5	0.0844	3
450746	KNOX COUNTY HOSPITAL	KNOX	TX	No	0.0804	3	5	0.0804	3
450090	NORTH TEXAS MEDICAL CENTER	COOKE	TX	No	0.0751	3	3	-0.2102	2

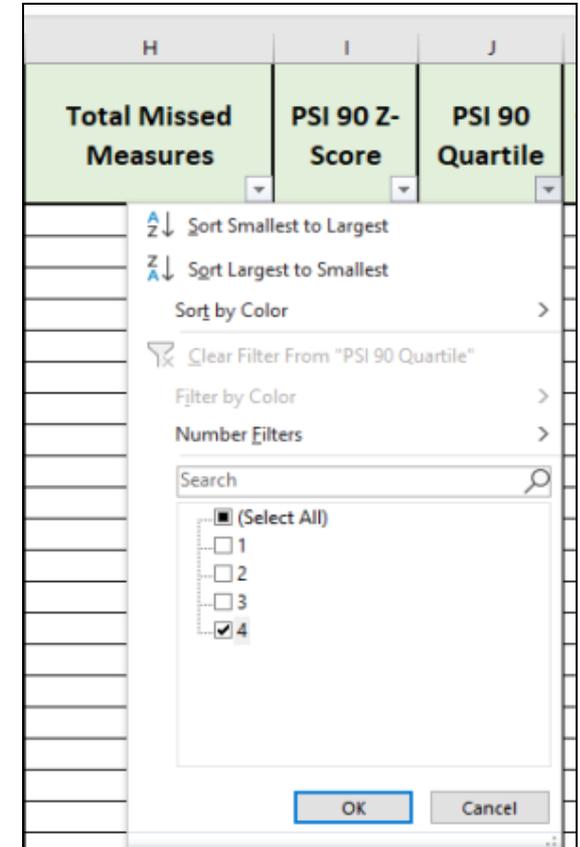
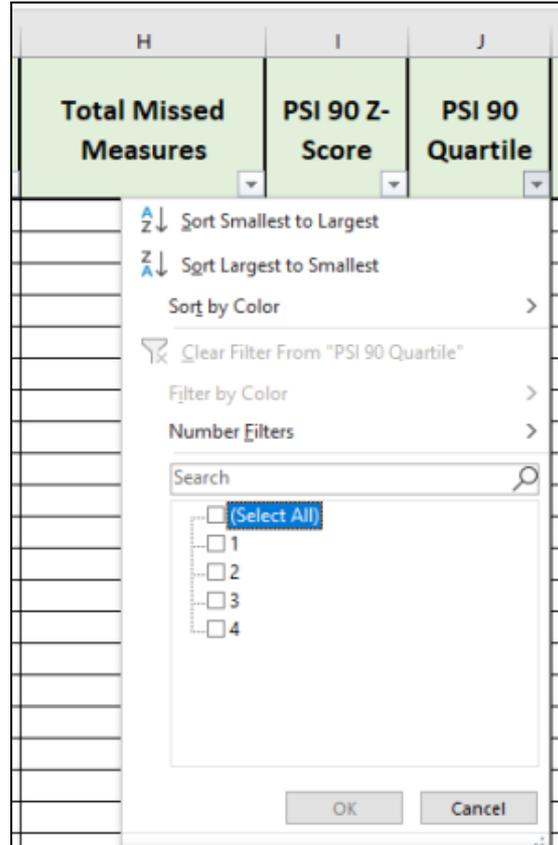
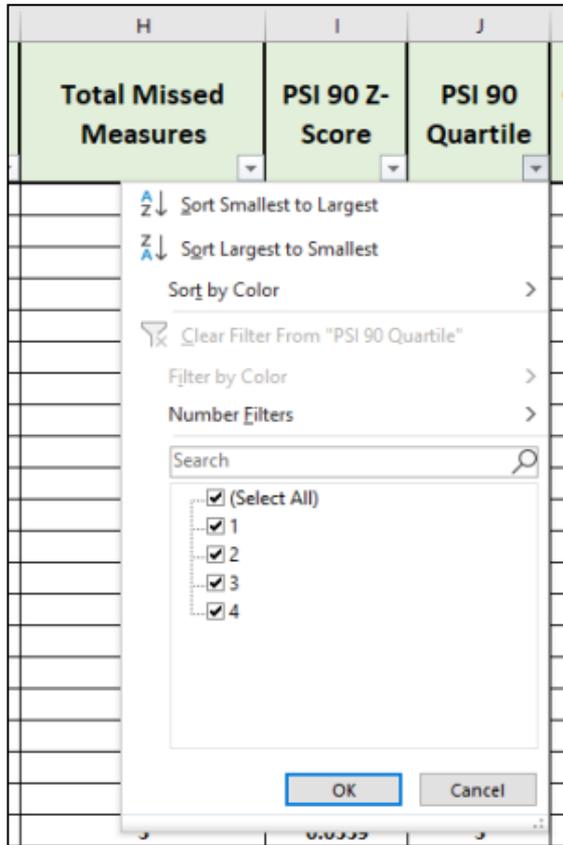
- This is a partial screen shot of the resulting display. It lists all Rural Scored Hospitals, ranked by Total HAC Score.
- The ranking is from Worst to Best.
- Note that the hospital with the worst score was evaluated on a single measure – i.e., five of the six measure domains were not scored.
- Compare this to the hospital with third worst score, which was evaluated on all 6 measures.

Selecting Single Measures for Analysis - 1

Facility ID	Facility Name	County/Parish	State	Payment Reduction	Total HAC Score	HAC Score Quartile	Total Missed Measures	PSI 90 Z-Score	PSI 90 Quartile
450155	HEREFORD REGIONAL MEDICAL CENTER	DEAF SMITH	TX	Yes	2.3575	4	5	2.3575	4
450565	PALO PINTO GENERAL HOSPITAL	PALO PINTO	TX	Yes	1.5273	4	3	0.4254	3
450347	HUNTSVILLE MEMORIAL HOSPITAL	WALKER	TX	Yes	1.3973	4	0	2.0038	4
450219	BAYLOR SCOTT & WHITE MEDICAL CENTER - LLANO	LLANO	TX	Yes	1.3968	4	5	1.3968	4
450694	EL CAMPO MEMORIAL HOSPITAL	WHARTON	TX	Yes	1.2303	4	4	0.4896	4
450755	COVENANT HOSPITAL LEVELLAND	HOCKLEY	TX	Yes	0.9819	4	4	-0.0071	3
450085	GRAHAM REGIONAL MEDICAL CENTER	YOUNG	TX	Yes	0.8292	4	4	-0.3125	2
450370	COLUMBUS COMMUNITY HOSPITAL	COLORADO	TX	Yes	0.5285	4	4	-0.0876	3
450447	NAVARRO REGIONAL HOSPITAL	NAVARRO	TX	Yes	0.4169	4	1	0.7008	4
450508	MEMORIAL HOSPITAL	NACOGDOCHES	TX	Yes	0.4112	4	0	-0.3193	2
450196	PARIS REGIONAL MEDICAL CENTER	LAMAR	TX	Yes	0.3383	4	0	0.1351	3
450539	COVENANT HOSPITAL PLAINVIEW	HALE	TX	No	0.2896	3	2	-1.0385	1
450654	STARR COUNTY MEMORIAL HOSPITAL	STARR	TX	No	0.2186	3	4	-0.2386	2
450007	PETERSON REGIONAL MEDICAL CENTER	KERR	TX	No	0.1823	3	0	2.2247	4
450187	SCOTT & WHITE HOSPITAL BRENHAM	WASHINGTON	TX	No	0.1284	3	3	-0.1189	3
450163	CHRISTUS SPOHN HOSPITAL KLEBERG	KLEBERG	TX	No	0.1123	3	0	0.4920	4
670108	BAYLOR SCOTT & WHITE MEDICAL CENTER - MARBLE FALLS	BURNET	TX	No	0.0915	3	2	0.0707	3
670117	TEXAS GENERAL HOSPITAL- VZVMC LP	VAN ZANDT	TX	No	0.0844	3	5	0.0844	3
450746	KNOX COUNTY HOSPITAL	KNOX	TX	No	0.0804	3	5	0.0804	3
450090	NORTH TEXAS MEDICAL CENTER	COOKE	TX	No	0.0751	3	3	-0.2102	2

- Scroll to Column J – PSI 90 Quartile. This shows the categorical ranking of scored hospitals on the composite Patient Safety Indicator measure.
- Click filter arrow in Column J.

Selecting Single Measures for Analysis - 2



- Click **Select All** box. This clears the selection.
- Click **Quartile 4** box. This will filter out all but the worst scored hospitals.

Selecting Single Measures for Analysis - 3

Facility ID	Facility Name	County/Parish	State	Payment Reduction	Total HAC Score	HAC Score Quartile	Total Missed Measures	PSI 90 Z-Score	PSI 90 Quartile
450155	HEREFORD REGIONAL MEDICAL CENTER	DEAF SMITH	TX	Yes	2.3575	4	5	2.3575	4
450347	HUNTSVILLE MEMORIAL HOSPITAL	WALKER	TX	Yes	1.3973	4	0	2.0038	4
450219	BAYLOR SCOTT & WHITE MEDICAL CENTER - LLANO	LLANO	TX	Yes	1.3968	4	5	1.3968	4
450694	EL CAMPO MEMORIAL HOSPITAL	WHARTON	TX	Yes	1.2303	4	4	0.4896	4
450447	NAVARRO REGIONAL HOSPITAL	NAVARRO	TX	Yes	0.4169	4	1	0.7008	4
450007	PETERSON REGIONAL MEDICAL CENTER	KERR	TX	No	0.1823	3	0	2.2247	4
450163	CHRISTUS SPOHN HOSPITAL KLEBERG	KLEBERG	TX	No	0.1123	3	0	0.4920	4
450389	UT HEALTH EAST TEXAS ATHENS HOSPITAL	HENDERSON	TX	No	-0.1412	2	0	1.3862	4
450587	BROWNWOOD REGIONAL MEDICAL CENTER	BROWN	TX	No	-0.3368	2	2	1.8044	4
450653	SCENIC MOUNTAIN MEDICAL CENTER, A STEWARD FAMILY H	HOWARD	TX	No	-0.4576	1	3	0.5176	4
450747	PALESTINE REGIONAL MEDICAL CENTER	ANDERSON	TX	No	-0.4706	1	1	1.0904	4

- This is a partial screen shot of the resulting display. It lists all rural hospitals in the worst quartile of PSI 90 scores. They are still ranked Total HAC Score.
- The PSI 90 Z-Score give a good picture of the severity of problems on this measure. For example, the first listed hospital scores more than 2 standard deviations worse than the average for all hospitals in the nation.
- Note that some hospitals in this poorly scoring quartile rank fairly well in their Total HAC Score. More than half are not penalized.

Selecting Single Measures for Analysis - 4

A	B	C	D	E	F	G	H	I	J
Facility ID	Facility Name	County/Parish	State	Payment Reduction	Total HAC Score	HAC Score Quartile	Total Missed Measures	PSI 90 Z-Score	PSI 90 Quartile
450155	HEREFORD REGIONAL MEDICAL CENTER	DEAF SMITH	TX	Yes	2.3575	4	5	2.3575	4
450007	PETERSON REGIONAL MEDICAL CENTER	KERR	TX	No	0.1823	3	0	2.2247	4
450347	HUNTSVILLE MEMORIAL HOSPITAL	WALKER	TX	Yes	1.3973	4	0	2.0038	4
450587	BROWNWOOD REGIONAL MEDICAL CENTER	BROWN	TX	No	-0.3368	2	2	1.8044	4
450219	BAYLOR SCOTT & WHITE MEDICAL CENTER - LLANO	LLANO	TX	Yes	1.3968	4	5	1.3968	4
450389	UT HEALTH EAST TEXAS ATHENS HOSPITAL	HENDERSON	TX	No	-0.1412	2	0	1.3862	4
450747	PALESTINE REGIONAL MEDICAL CENTER	ANDERSON	TX	No	-0.4706	1	1	1.0904	4
450447	NAVARRO REGIONAL HOSPITAL	NAVARRO	TX	Yes	0.4169	4	1	0.7008	4
450653	SCENIC MOUNTAIN MEDICAL CENTER, A STEWARD FAMILY H	HOWARD	TX	No	-0.4576	1	3	0.5176	4
450163	CHRISTUS SPOHN HOSPITAL KLEBERG	KLEBERG	TX	No	0.1123	3	0	0.4920	4
450694	EL CAMPO MEMORIAL HOSPITAL	WHARTON	TX	Yes	1.2303	4	4	0.4896	4

- The resulting display may be sorted by PSI 90 Score.
- The single measure ranking can be used to identify priority hospitals for training and consultation by SORHs.
- After analysis is completed the PSI 90 Quartile filter can be cleared by clicking the *Select All* box under the Column J filter dropdown.

Selecting Single Measures for Analysis - 5

- Similar analysis can be conducted for the other five measure domains:
 - Column L - Central Line-Associated Bloodstream Infection (CLABSI) Quartile
 - Column N - Catheter-Associated Urinary Tract Infection (CAUTI) Quartile
 - Column P - Surgical Site Infection (SSI) (colon and hysterectomy) Quartile
 - Column R - Methicillin-resistant Staphylococcus aureus (MRSA) Quartile
 - Column T - Clostridium difficile Infection (CDI) Quartile
- Excel filters are *cumulative* and it is important to clear each of the single measure filters before initiating analysis of the next one.

Summary

- A similar percentage of scored rural and urban IPPS hospitals are penalized under the FY 2020 HACRP.
- There is substantial variation between the states in the percentage of scored rural IPPS hospitals penalized in the FY 2020 HACRP.
- There are multiple methodological issues which limit the potential use of the HACRP's Total HAC Score as a measure of hospital acquired condition performance.
 - While 73.9% of urban hospitals are scored on all 6 domain measures only 28.1% of rural hospitals are scored on all measures.
 - Similarly, 33.3% of rural hospitals are scored on only 1 or 2 of the 6 domains. This compares to 12.2% of urban hospitals.
- Despite the methodological limitations of scoring, the relative scoring of hospitals on individual domain measures can be used to target SORH quality improvement efforts.