

February 25, 2019

## **CINA Deluxe Data Quality Profile**

**Date DQP produced:** February 25, 2019

**Variable examined:** Site-specific factor 3 (NAACCR Data Item #:2900) and site-specific factor 8 (NAACCR Data Item #:2862)

**Filters:** Microscopically confirmed invasive cases only; excluded lymphoma, leukemia, DCO, and autopsy cases

**Diagnosis Years covered:** 2011-2015

**Cancer Sites:** Prostate

**Database citation:** CINA Analytic File, 1995-2015, Expanded Races

**Number of Registries included:** 46 State Registries. Four state cancer registries (Kansas, Minnesota, Nevada, and New Mexico) and DC cancer registry that did not meet the NAACCR CINA data fit for use between 2011 and 2015 were excluded.)

**Data Dictionary:** NAACCR Data Dictionary 16

(<http://www.naacr.org/LinkClick.aspx?fileticket=xSH32ZzIzGI%3d&tabid=133&mid=473>)

**Members:** Meichin Hsieh, Bin Huang, Ahmedin Jemal, Carol Kruchko, Quinn Ostrom, Baozhen Qiao, Recinda Sherman, Helmneh Sineshaw, Brad Wohler, Manxia Wu, Xiaocheng Wu, Qingzhao Yu

### **Contact Information:**

Meichin Hsieh, PhD, MSPH, CTR  
Phone: (504) 568-5850  
Email: [mhsieh@lsuhsc.edu](mailto:mhsieh@lsuhsc.edu)

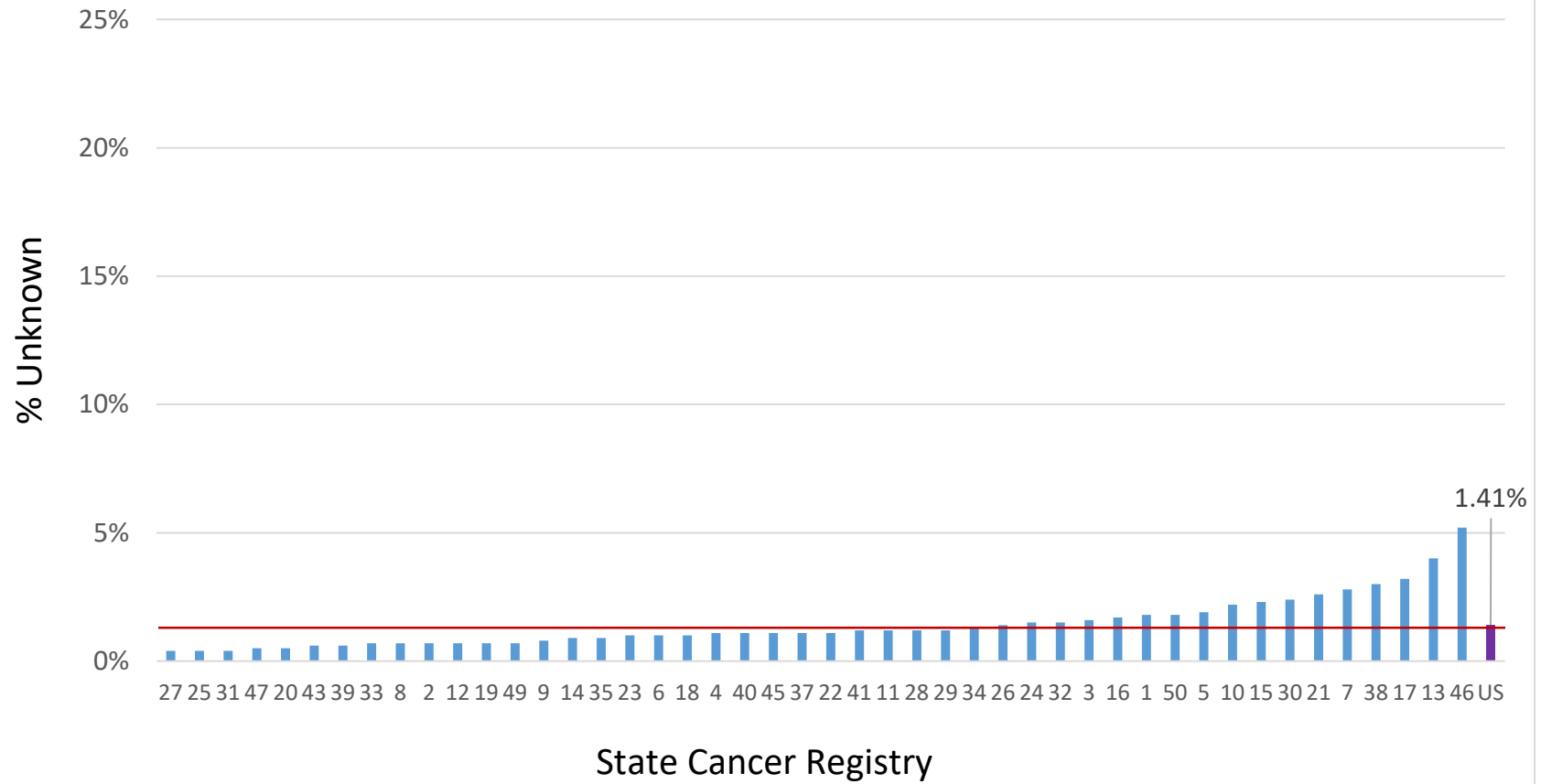
### **Technical Notes:**

1. The unknown site-specific factor (SSF) was based on data items with unknown or blank values.

February 25, 2019

- a. SSF3 (CS extension): We selected prostate cancer patients who received prostatectomy with surgery codes 30 to 80 and microscopically confirmed. SSF3 codes 970, 980, and 985 were excluded. Unknown values included SSF3 codes 990 and blank value.
  - b. SSF8 (Gleason's Score on Needle Core Biopsy/Transurethral Resection of Prostate (TURP)): We selected prostate cancer cases with microscopically confirmed only. SSF8 codes 988 and 998 were excluded. Unknown values included codes 999 and blank value.
2. Upper Whisker: extends to largest data point within the boundary of  $Q3 + 1.5 * (Q3 - Q1)$ .
  3. Type of reporting source: Hospital includes hospital inpatient, radiation treatment centers/medical oncology centers, and other hospital outpatient units/surgery centers.
  4. Urban/Rural 2013: The definition of metropolitan area is based on county using 2013 Rural/Urban Continuum Code. Metropolitan area include county metro area with population  $\geq 1$ million, county metro area with population between 25,000 and 1 million, and county metro area with population  $< 25,000$ .

Figure 1.  
% Unknown of SSF 3 - CS Extension,  
Prostate Cancer 2011-2015

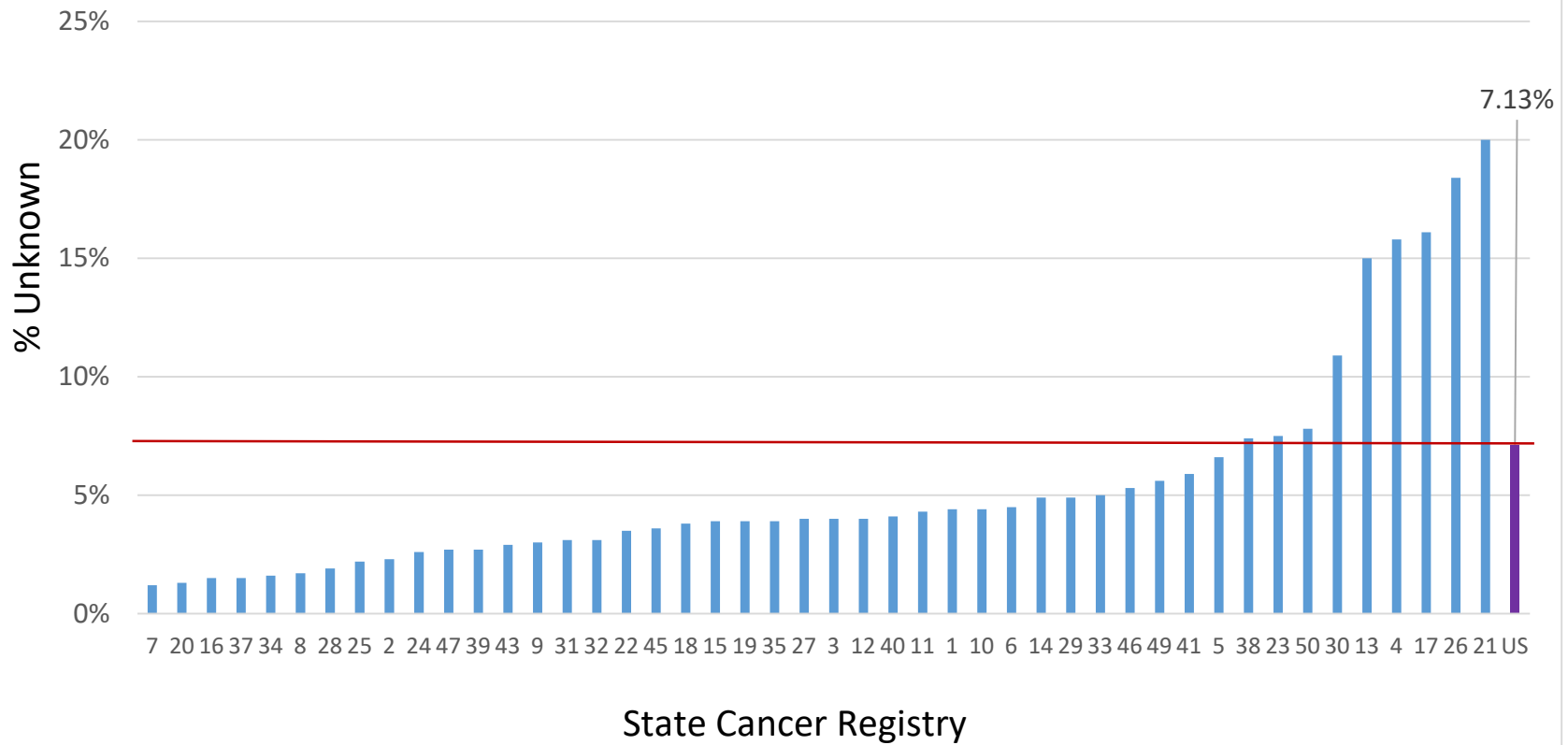


February 25, 2019

Table 1. Unknown SSF3 (CS extension) by diagnosis year: Prostate cancer 2011-2015

	2011		2012		2013		2014		2015	
<b>Registry Level</b>										
25-75% Percentile (IQR)	0.7-1.8%		0.6-1.3%		0.7-2.3%		0.3-1.7%		0.7-2.0%	
Minimum	0.0%		0.0%		0.0%		0.0%		0.0%	
Mean	1.5%		1.3%		1.6%		1.2%		1.4%	
Median	1.2%		0.9%		1.3%		1.0%		1.2%	
Maximum	7.5%		8.6%		7.7%		3.9%		5.4%	
Upper Whisker <sup>1</sup>	3.4%		2.4%		4.8%		3.9%		3.9%	
# outside of upper whisker	3		6		1		1		2	
<b>All cases combined</b>	<b>Total Count</b>	<b>% Unk</b>	<b>Total Count</b>	<b>% Unk</b>	<b>Total Count</b>	<b>% Unk</b>	<b>Total Count</b>	<b>% Unk</b>	<b>Total Count</b>	<b>% Unk</b>
<b>Race</b>										
White	62,053	1.4	49,908	1.5	46,987	1.6	44,812	1.2	45,805	1.2
Black	9,566	2.0	8,197	1.4	7,975	1.6	8,053	1.2	8,360	1.2
AI/AN	223	3.6	231	1.3	218	2.3	201	2.5	217	3.2
Asian or Pacific Islander	1,518	1.1	1,286	0.4	1,228	1.4	1,099	0.8	1,314	1.0
Unknown race	801	3.9	610	2.6	605	2.0	731	2.6	762	3.7
<b>Age</b>										
≤49 years	4,065	1.6	3,204	1.3	2,653	1.7	2,360	1.1	2,239	1.2
50-64 years	44,330	1.4	35,007	1.3	32,606	1.4	31,406	1.1	31,170	1.1
65-79 years	25,263	1.6	21,554	1.6	21,257	1.8	20,620	1.3	22,560	1.3
80+ years	502	8.0	467	10.7	497	9.1	509	8.6	489	5.9
<b>Type of reporting source<sup>3</sup></b>										
Hospital	72,667	1.4	59,292	1.4	56,023	1.4	53,880	1.1	55,482	1.1
Non-hospital	1,494	7.5	940	7.4	990	11.5	1,016	5.9	976	6.0
<b>Urban/Rural 2013<sup>4</sup></b>										
Metro	62,689	1.4	50,912	1.4	48,193	1.5	46,423	1.2	47,767	1.2
Non-Metro	11,434	1.9	9,307	1.8	8,814	2.1	8,458	1.6	8,678	1.3
Unknown	38	7.9	13	0.0	6	0.0	15	0.0	13	15.4
<b>Derived SEER SS2000</b>										
Localized	54,237	1.5	42,739	1.5	39,260	1.6	36,758	1.3	36,287	1.3
Regional	19,541	0.5	17,179	0.6	17,441	0.6	17,793	0.3	19,778	0.3
Distant	176	9.1	164	12.8	169	12.4	192	9.4	223	9.0
Unknown	207	86.5	150	94.7	143	93.0	153	88.2	170	79.4

Figure 2.  
% Unknown of SSF 8 - Gleason's Score on Needle Core Biopsy/TURP,  
Prostate Cancer 2011-2015



February 25, 2019

Table 2. Unknown SSF8 (Gleason's Score on Needle Core Biopsy/Transurethral Resection of Prostate [TURP]) by diagnosis year: Prostate cancer 2011-2015

	2011		2012		2013		2014		2015	
<b>Registry Level</b>										
25-75% Percentile (IQR)	2.8-5.9%		2.7-5.6%		2.8-7.7%		2.6-5.9%		2.3-4.2%	
Minimum	1.3%		0.4%		1.2%		0.3%		0.4%	
Mean	5.7%		5.4%		6.1%		5.2%		4.6%	
Median	3.7%		4.3%		4.1%		3.9%		3.0%	
Maximum	22.1%		22.3%		24.8%		21.6%		20.0%	
Upper Whisker <sup>1</sup>	10.6%		9.9%		15.2%		10.9%		7.1%	
# outside of upper whisker	6		7		5		5		8	
<b>All cases combined</b>	<b>Total Count</b>	<b>% Unk</b>	<b>Total Count</b>	<b>% Unk</b>	<b>Total Count</b>	<b>% Unk</b>	<b>Total Count</b>	<b>% Unk</b>	<b>Total Count</b>	<b>% Unk</b>
<b>Race</b>										
White	157,248	7.2	130,948	7.0	126,950	7.6	120,319	6.5	124,423	5.8
Black	30,551	7.2	27,445	7.2	27,041	8.6	26,257	6.8	26,934	6.7
AI/AN	717	10.7	657	7.3	669	8.5	652	9.2	667	7.5
Asian or Pacific Islander	4,318	7.5	3,699	7.7	3,701	8.6	3,375	6.7	3,847	7.7
Unknown race	6,439	12.3	5,556	9.7	5,252	13.7	5,574	10.1	6,908	13.9
<b>Age</b>										
≤49 years	5,875	7.4	4,960	7.4	4,241	7.1	3,757	6.9	3,568	6.8
50-64 years	83,903	6.7	70,380	6.4	67,421	7.0	64,587	6.2	65,520	5.6
65-79 years	95,346	7.1	81,671	6.8	80,879	7.9	77,306	6.4	82,955	6.3
80+ years	14,127	13.5	11,280	14.1	11,068	14.6	10,523	12.7	10,730	10.8
<b>Type of reporting source<sup>3</sup></b>										
Hospital	176,889	6.6	150,353	6.6	145,789	6.9	138,656	6.0	143,876	5.5
Non-hospital	22,384	13.4	17,952	12.0	17,824	16.4	17,521	12.8	18,903	12.7
<b>Urban/Rural 2013<sup>4</sup></b>										
Metro	167,611	7.6	141,937	7.4	138,049	8.4	131,601	7.0	136,997	6.6
Non-Metro	31,468	6.0	26,192	5.5	25,436	5.7	24,249	5.5	25,486	4.5
Unknown	194	10.3	176	10.2	128	10.9	327	3.7	296	22.3
<b>Derived SEER SS2000</b>										
Localized	159,050	4.4	132,450	4.2	125,499	3.9	118,162	3.8	121,292	2.9
Regional	22,920	5.6	20,270	5.2	20,680	4.8	21,266	4.7	23,425	3.6
Distant	6,440	14.1	6,658	13.9	6,955	12.2	7,374	12.0	7,782	10.3
Unknown	10,863	51.2	8,927	50.6	10,479	60.7	9,375	44.2	10,280	49.9