

Supplemental Digital Content 5: Sensitivity and positive predictive value (PPV) of SEER to identify treatment by cancer site and stage<sup>a</sup>.

Legend:		≤60%	60-90%	>90%	Chemotherapy		Radiation Therapy		Hormone Therapy	
		Sensitivity		PPV	Sensitivity		PPV	Sensitivity	PPV	
<b>Bladder</b>	Localized	11.0 (10.4, 11.7)	87.9 (85.9, 89.8)		24.0 (20.7, 27.2)	84.2 (79.0, 89.4)				
	Regional	53.5 (51.4, 55.6)	91.6 (90.1, 93.2)		63.0 (60.7, 65.3)	94.8 (93.5, 96.1)				
	Distant	76.6 (72.6, 80.6)	86.9 (83.4, 90.3)		70.3 (65.4, 75.2)	94.4 (91.6, 97.3)				
	Unstaged	18.6 (12.3, 25.0)	79.4 (65.8, 93.0)	--						
<b>Female Breast</b>	In situ	5.6 (2.2, 9.0)	18.2 (8.0, 28.4)		82.3 (81.2, 83.3)	97.8 (97.3, 98.2)				
	Localized	58.6 (57.3, 60.0)	87.8 (86.7, 88.9)		82.2 (81.7, 82.7)	97.7 (97.5, 97.9)				
	Regional	76.5 (75.5, 77.4)	94.4 (93.9, 95.0)		74.0 (73.1, 74.9)	96.9 (96.4, 97.3)				
	Distant	70.7 (68.8, 72.7)	89.1 (87.5, 90.6)		72.1 (70.0, 74.1)	96.6 (95.6, 97.5)				
	Unstaged	45.2 (37.6, 52.8)	78.1 (69.9, 86.4)		39.2 (33.1, 45.3)	93.2 (88.3, 98.1)				
<b>Colorectal</b>	In situ	--	--		--					
	Localized	64.9 (63.3, 66.5)	88.3 (87.0, 89.5)		66.7 (65.0, 68.5)	95.2 (94.2, 96.1)				
	Regional	72.1 (71.2, 72.9)	92.3 (91.8, 92.9)		71.1 (69.6, 72.5)	93.8 (93.0, 94.7)				
	Distant	76.3 (75.2, 77.4)	91.6 (90.9, 92.4)		59.3 (57.0, 61.6)	91.6 (90.0, 93.3)				
	Unstaged	53.2 (49.0, 57.3)	85.5 (81.7, 89.2)		59.6 (55.2, 64.0)	93.2 (90.3, 96.0)				
<b>Lung</b>	In situ									
	Localized	65.8 (64.2, 67.4)	88.7 (87.4, 89.9)		71.5 (70.3, 72.8)	93.1 (92.3, 93.9)				
	Regional	81.6 (80.9, 82.3)	91.6 (91.0, 92.1)		81.2 (80.5, 81.9)	94.2 (93.8, 94.6)				
	Distant	83.3 (82.8, 83.8)	88.5 (88.1, 89.0)		78.9 (78.4, 79.4)	94.5 (94.1, 94.8)				
	Unstaged	55.7 (53.1, 58.3)	87.1 (84.9, 89.2)		48.5 (46.0, 51.1)	89.7 (87.6, 91.8)				
<b>Ovary</b>	In situ	--	--							
	Localized	69.6 (64.6, 74.5)	95.1 (92.3, 97.8)							
	Regional	78.7 (74.3, 83.1)	95.9 (93.6, 98.3)							
	Distant	86.6 (85.6, 87.6)	94.8 (94.2, 95.5)							
	Unstaged	73.3 (67.2, 79.4)	89.2 (84.4, 93.9)							
<b>Pancreas</b>	Localized	73.3 (69.4, 77.2)	91.0 (88.1, 93.8)		73.1 (68.8, 77.4)	98.3 (96.9, 99.8)				
	Regional	80.8 (79.1, 82.4)	92.5 (91.4, 93.7)		77.9 (76.0, 79.9)	96.3 (95.3, 97.2)				
	Distant	77.6 (76.3, 78.9)	90.5 (89.5, 91.5)		60.5 (57.5, 63.5)	94.7 (93.0, 96.5)				
	Unstaged	60.0 (55.6, 64.5)	91.7 (88.5, 94.8)		47.8 (41.5, 54.0)	95.1 (91.3, 98.9)				
<b>Prostate</b>	In situ	--	--		--	--				
	Localized/Regional	4.9 (4.0, 5.8)	30.3 (25.4, 35.1)		86.8 (86.5, 87.1)	93.2 (93.0, 93.5)				
	Distant	13.6 (11.1, 16.1)	55.2 (48.0, 62.5)		62.5 (60.1, 64.9)	87.1 (85.1, 89.0)				
	Unstaged	8.3 (3.8, 12.8)	57.1 (36.0, 78.3)		46.2 (43.0, 49.4)	85.2 (82.2, 88.3)				

-- Cell size less than 5

<sup>a</sup>A 12-month post-diagnosis window was used to identify treatment using Medicare claims (gold standard); SEER historic stage A

<sup>b</sup>95% confidence intervals computed using normal approximation

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69.2 (68.8, 69.6)	87.3 (87.0, 87.7)	
79.5 (78.2, 80.9)	74.9 (73.5, 76.3)	
43.9 (41.6, 46.1)	80.0 (77.5, 82.4)	