# 1. Objectives

### **Primary Objective**

The primary objective of the study is to evaluate the disparities in survival for cervical cancer among Hispanic subgroups under guideline-concordant care using the NCDB database.

### Secondary Objective

The secondary objectives include but not limited to (1) capture potential confounders (i.e. age, treatments, etc.) that affect survival of cervical cancer for Latino subgroups, (2) compare survival of cervical cancer for Latino subgroups to other groups in U.S., and (3) evaluate effects of <u>guideline-concordant care</u> on cancer survival regarding Latino subgroups.

#### 2. Guideline-concordant care table

Quality metric	Eligibility	Guideline compliance	Year analyzed	Total analyzed	Adherent %
Non-radical surgery	Stage IA1 without LVSI patients undergoing surgery	Patients undergoing conization, trachelectomy, or simple hysterectomy as primary treatment	2010-2019	2593	77.71%
Radical hysterectomy	Stage IA2 - IIA2 patients undergoing hysterectomy as primary treatment	Patients undergoing modified radical hysterectomy or radical hysterectomy	2004-2019	16174	53.41%
Lymph node assessment	Stage IA2 - IIA2 patients undergoing hysterectomy as primary treatment	Any surgical lymph node assessment	2004-2019	16174	88.58%
Adjuvant chemoradiation	Stage IA2 - IIA2 patients undergoing surgery with positive lymph nodes or positive margins	Patients receiving chemotherapy and radiation within 60 days of surgery	2004-2019	2678	60.34%
Primary chemoradiation	Stage IB2-IVA patients undergoing primary radiation	Receipt of concurrent chemotherapy	2004-2019	31067	81.08%
Chemotherapy	Stage IVB patients without undergoing surgery as primary treatment	Receipt of chemotherapy at any time point	2004-2019	6714	82.93%
Timely initiation of treatment in early-stage disease	Stage IA1–IIA patients	Receipt of primary treatment within 60 calendar days of diagnosis	2004-2019	36592	81.91%
Timely initiation of treatment in locally advanced disease	Stage IIB–IVA patients	Receipt of primary treatment within 60 calendar days of diagnosis	2004-2019	30223	78.03%
Treatment for locally advanced disease	Stage IIB-IIIB patients	Patients receiving primary treatment	2004-2019	27448	92.91%

### 3. Demographic table

	White, NH (n = 58328;%)	Black, NH (n = 14876;%)	Hispanic (n = 4363;%)	Mexican (n = 2445;%)	Cuban (n = 165;%)	Dominican (n = 160;%)	Puerto Rican (n = 442;%)	South or Central America (n = 1151;%)	P-value (Total)	P-value (Latino)
Age [mean (SD)]	50.97 (14.6)	52.46 (14.99)	50.24 (14.3)	49.4 (13.85)	55.68 (15.41)	56.29 (15.22)	51.01 (14.7)	50.11 (14.44)	< 0.001	0.61
Education										
No HSD >=17.6%	11266 (19.31%)	6412 (43.1%)	2680 (61.43%)	1622 (66.34%)	85 (51.52%)	103 (64.38%)	225 (50.9%)	645 (56.04%)	< 0.001	< 0.001
No HSD 10.9% - 17.5%	15354 (26.32%)	4292 (28.85%)	728 (16.69%)	366 (14.97%)	35 (21.21%)	25 (15.62%)	102 (23.08%)	200 (17.38%)		
No HSD 6.3% - 10.8%	14757 (25.3%)	2045 (13.75%)	439 (10.06%)	211 (8.63%)	25 (15.15%)	18 (11.25%)	53 (11.99%)	132 (11.47%)	< 0.001	<b>\ 0.001</b>
No HSD < 6.3%	10952 (18.78%)	754 (5.07%)	235 (5.39%)	86 (3.52%)	10 (6.06%)	4 (2.5%)	30 (6.79%)	105 (9.12%)		
Neighborhood Income										
< \$40,227	10165 (17.43%)	6786 (45.62%)	1292 (29.61%)	750 (30.67%)	47 (28.48%)	57 (35.62%)	172 (38.91%)	266 (23.11%)		
\$40,227 - \$50,353	13341 (22.87%)	2916 (19.6%)	961 (22.03%)	572 (23.39%)	49 (29.7%)	42 (26.25%)	86 (19.46%)	212 (18.42%)	< 0.001	< 0.001
\$50,354 - \$63,332	12568 (21.55%)	1947 (13.09%)	1006 (23.06%)	595 (24.34%)	37 (22.42%)	21 (13.12%)	82 (18.55%)	271 (23.54%)	0.001	
>= \$63,333	16150 (27.69%)	1835 (12.34%)	823 (18.86%)	368 (15.05%)	22 (13.33%)	30 (18.75%)	70 (15.84%)	333 (28.93%)		
Missing	6104 (10.46%)	1392 (9.36%)	281 (6.44%)	160 (6.54%)	10 (6.06%)	10 (6.25%)	32 (7.24%)	69 (5.99%)		
<b>Insurance Status</b>										
No	3827 (6.56%)	1538 (10.34%)	836 (19.16%)	487 (19.92%)	13 (7.88%)	12 (7.5%)	33 (7.47%)	291 (25.28%)		
Other Government	692 (1.19%)	139 (0.93%)	34 (0.78%)	20 (0.82%)	(1.21%)	(0.62%)	(0.9%)	(0.61%)		
Medicaid	11035 (18.92%)	4538 (30.51%)	1692 (38.78%)	1042 (42.62%)	42 (25.45%)	72 (45%)	160 (36.2%)	376 (32.67%)	< 0.001	< 0.001
Medicare	11527 (19.76%)	3233 (21.73%)	615 (14.1%)	294 (12.02%)	46 (27.88%)	34 (21.25%)	101 (22.85%)	140 (12.16%)		
Private Insurance	29890 (51.24%)	4956 (33.32%)	1016 (23.29%)	482 (19.71%)	61 (36.97%)	39 (24.38%)	137 (31%)	297 (25.8%)		
Unknown	1357 (2.33%)	472 (3.17%)	170 (3.9%)	120 (4.91%)	(0.61%)	2 (1.25%)	7 (1.58%)	40 (3.48%)		
Urban/Rural										
Rural	1167 (2%)	143 (0.96%)	12 (0.28%)	11 (0.45%)	0 (0%)	0 (0%)	0 (0%)	1 (0.09%)		
Urban	9965 (17.08%)	1314 (8.83%)	125 (2.87%)	102 (4.17%)	3 (1.82%)	3 (1.88%)	6 (1.36%)	11 (0.96%)	< 0.001	< 0.001
Metro	44936 (77.04%)	13115 (88.16%)	4170 (95.58%)	2307 (94.36%)	161 (97.58%)	153 (95.62%)	429 (97.06%)	1120 (97.31%)		
Missing	2260	304	56	25	1	4	7	19		

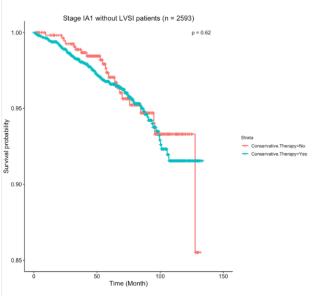
Γ	(2.87%)	(2.04%)	(1.28%)	(1.02%)	(0.61%)	(2.5%)	(1.58%)	(1.65%)		
Charlson/Deyo Index	(3.87%)	(2.04%)	(1.28%)	(1.02%)	(0.01%)	(2.5%)	(1.58%)	(1.65%)		
0	49821	11964	3821	2164	142	136	347	1032		
	(85.42%) 6444	(80.42%) 2049	(87.58%) 429	(88.51%) 228	(86.06%)	(85%) 16	(78.51%) 68	(89.66%) 96		
1	(11.05%) 1440	(13.77%) 474	(9.83%) 77	(9.33%) 37	(12.73%)	(10%)	(15.38%) 19	(8.34%)	< 0.001	< 0.001
2	(2.47%) 623	(3.19%)	(1.76%)	(1.51%)	(1.21%)	(3.12%)	(4.3%)	(1.22%)	_	
3 T	(1.07%)	(2.61%)	(0.83%)	(0.65%)	(0%)	(1.88%)	(1.81%)	(0.78%)		
Tumor Histology	13295	1748	860	487	31	29	68	245		
Adenocarcinoma	(22.79%) 39574	(11.75%) 11735	(19.71%) 3094	(19.92%) 1735	(18.79%) 119	(18.12%) 113	(15.38%) 331	(21.29%) 796	_	
Squamous Cell Carcinoma	(67.85%)	(78.89%)	(70.91%)	(70.96%)	(72.12%)	(70.62%)	(74.89%)	(69.16%)		
Unspecified Carcinoma	1554 (2.66%)	467 (3.14%)	102 (2.34%)	46 (1.88%)	(3.03%)	(3.12%)	(3.17%)	32 (2.78%)	< 0.001	0.08
Other	271 (0.46%)	82 (0.55%)	16 (0.37%)	9 (0.37%)	(1.21%)	0 (0%)	4 (0.9%)	(0.09%)	_	
Unknown	3634 (6.23%)	844 (5.67%)	291 (6.67%)	168 (6.87%)	8 (4.85%)	13 (8.12%)	25 (5.66%)	77 (6.69%)		
Tumor Grade		1		125	1				1	
Grade I	5559 (9.53%)	816 (5.49%)	352 (8.07%)	197 (8.06%)	11 (6.67%)	13 (8.12%)	37 (8.37%)	94 (8.17%)		
Grade II	18413 (31.57%)	4639 (31.18%)	1376 (31.54%)	764 (31.25%)	47 (28.48%)	51 (31.87%)	143 (32.35%)	371 (32.23%)	< 0.001	0.97
Grade III	17471 (29.95%)	4902 (32.95%)	1335 (30.6%)	755 (30.88%)	51 (30.91%)	54 (33.75%)	136 (30.77%)	339 (29.45%)	< 0.001	0.97
Grade IV	940 (1.61%)	219 (1.47%)	100 (2.29%)	57 (2.33%)	4 (2.42%)	(1.25%)	6 (1.36%)	31 (2.69%)	_	
Missing	15945	4300	1200	672 (27.48%)	52 (31.52%)	40 (25%)	120	316		
Facility Type	(27.34%)	(28.91%)	(27.5%)	(27.48%)	(31.32%)	(23%)	(27.15%)	(27.45%)		
Community Cancer Program	2280 (3.91%)	403 (2.71%)	182 (4.17%)	122 (4.99%)	3 (1.82%)	5 (3.12%)	22 (4.98%)	30 (2.61%)		
Comprehensive Community	15990	3086	627	340	45	29	70	143		
Cancer Program	(27.41%) 17398	(20.74%) 6236	(14.37%) 2027	(13.91%) 1138	(27.27%)	(18.12%)	(15.84%) 195	(12.42%)	< 0.001	< 0.001
Academic/Research Program  Integrated Network Cancer	(29.83%) 8366	(41.92%)	(46.46%) 425	(46.54%) 195	(30.91%)	(56.88%) 14	(44.12%) 42	(47.96%) 135		
Program	(14.34%)	(13.49%)	(9.74%)	(7.98%)	(23.64%)	(8.75%)	(9.5%)	(11.73%)		
Missing	14294 (24.51%)	3144 (21.13%)	1102 (25.26%)	650 (26.58%)	27 (16.36%)	21 (13.12%)	113 (25.57%)	291 (25.28%)		
Facility Location	8752	2330	672	61	23	118	219	251		
Northeast	(15%)	(15.66%)	(15.4%)	(2.49%)	(13.94%)	(73.75%)	(49.55%)	(21.81%) 187		
South	17001 (29.15%)	6555 (44.06%)	698 (16%)	306 (12.52%)	108 (65.45%)	18 (11.25%)	79 (17.87%)	(16.25%)	< 0.001	< 0.001
Midwest	11663 (20%)	2255 (15.16%)	216 (4.95%)	158 (6.46%)	3 (1.82%)	3 (1.88%)	24 (5.43%)	28 (2.43%)		0.001
West	6618 (11.35%)	592 (3.98%)	1675 (38.39%)	1270 (51.94%)	4 (2.42%)	0 (0%)	7 (1.58%)	394 (34.23%)		
Missing	14294 (24.51%)	3144 (21.13%)	1102 (25.26%)	650 (26.58%)	27 (16.36%)	21 (13.12%)	113 (25.57%)	291 (25.28%)		
Cancer Stage			(======)		(= 0.0 0)	(=====)	[ (=0.0, 1.5) [		I	
1	3401 (5.83%)	614 (4.13%)	235 (5.39%)	147 (6.01%)	7 (4.24%)	6 (3.75%)	24 (5.43%)	51 (4.43%)		
1A	2425 (4.16%)	495 (3.33%)	192 (4.4%)	116 (4.74%)	7 (4.24%)	5 (3.12%)	14 (3.17%)	50 (4.34%)		
1A1	3410 (5.85%)	648 (4.36%)	158 (3.62%)	80 (3.27%)	5 (3.03%)	6 (3.75%)	15 (3.39%)	52 (4.52%)		
1A2	1046	178	62	33	2	5	7	15		
1B	(1.79%) 5038	(1.2%)	(1.42%) 492	(1.35%)	(1.21%)	(3.12%)	(1.58%)	(1.3%)		
1B1	(8.64%) 7808	(7.09%) 1330	(11.28%) 501	(11.94%) 280	(4.85%)	(7.5%)	(6.56%) 42	(13.12%) 138		
1B2	(13.39%)	(8.94%) 921	(11.48%) 255	(11.45%) 142	(12.73%)	(12.5%)	(9.5%) 27	(11.99%) 77		
	(5.44%) 568	(6.19%) 131	(5.84%)	(5.81%)	(3.64%)	(1.88%)	(6.11%)	(6.69%) 10		
2		131						(0.070/)		
	(0.97%)	(0.88%)	(0.87%)	(0.94%)	(0%)	(1.25%)	(0.68%)	(0.87%)		
2A	1453 (2.49%)	(0.88%) 339 (2.28%)	(0.87%) 128 (2.93%)	67 (2.74%)	6 (3.64%)	5 (3.12%)	16 (3.62%)	34 (2.95%)	< 0.001	0.003
2A 2A1	1453 (2.49%) 353 (0.61%)	(0.88%) 339 (2.28%) 66 (0.44%)	(0.87%) 128 (2.93%) 20 (0.46%)	67 (2.74%) 11 (0.45%)	6	5	16 (3.62%) 4 (0.9%)	34 (2.95%) 3 (0.26%)	< 0.001	0.003
	1453 (2.49%) 353 (0.61%) 614 (1.05%)	(0.88%) 339 (2.28%) 66 (0.44%) 146 (0.98%)	(0.87%) 128 (2.93%) 20 (0.46%) 37 (0.85%)	67 (2.74%) 11 (0.45%) 18 (0.74%)	6 (3.64%) 0 (0%) 1 (0.61%)	5 (3.12%) 2 (1.25%) 1 (0.62%)	16 (3.62%) 4 (0.9%) 7 (1.58%)	34 (2.95%) 3 (0.26%) 10 (0.87%)	< 0.001	0.003
2A1	1453 (2.49%) 353 (0.61%) 614	(0.88%) 339 (2.28%) 66 (0.44%) 146	(0.87%) 128 (2.93%) 20 (0.46%) 37	67 (2.74%) 11 (0.45%) 18	6 (3.64%) 0 (0%) 1	5 (3.12%) 2 (1.25%)	16 (3.62%) 4 (0.9%) 7	34 (2.95%) 3 (0.26%)	< 0.001	0.003
2A1 2A2	1453 (2.49%) 353 (0.61%) 614 (1.05%) 7014 (12.03%) 452	(0.88%) 339 (2.28%) 66 (0.44%) 146 (0.98%) 2096 (14.09%)	(0.87%) 128 (2.93%) 20 (0.46%) 37 (0.85%) 616 (14.12%) 36	67 (2.74%) 11 (0.45%) 18 (0.74%) 353 (14.44%)	6 (3.64%) 0 (0%) 1 (0.61%) 19 (11.52%) 4	5 (3.12%) 2 (1.25%) 1 (0.62%) 21 (13.12%) 0	16 (3.62%) 4 (0.9%) 7 (1.58%) 60 (13.57%)	34 (2.95%) 3 (0.26%) 10 (0.87%) 163 (14.16%)	< 0.001	0.003
2A1 2A2 2B	1453 (2.49%) 353 (0.61%) 614 (1.05%) 7014 (12.03%) 452 (0.77%) 763	(0.88%) 339 (2.28%) 66 (0.44%) 146 (0.98%) 2096 (14.09%) 131 (0.88%) 250	(0.87%) 128 (2.93%) 20 (0.46%) 37 (0.85%) 616 (14.12%) 36 (0.83%) 71	67 (2.74%) 11 (0.45%) 18 (0.74%) 353 (14.44%) 18 (0.74%) 38	6 (3.64%) 0 (0%) 1 (0.61%) 19 (11.52%) 4 (2.42%) 3	5 (3.12%) 2 (1.25%) 1 (0.62%) 21 (13.12%) 0 (0%) 4	16 (3.62%) 4 (0.9%) 7 (1.58%) 60 (13.57%) 2 (0.45%)	34 (2.95%) 3 (0.26%) 10 (0.87%) 163 (14.16%) 12 (1.04%)	< 0.001	0.003
2A1 2A2 2B	1453 (2.49%) 353 (0.61%) 614 (1.05%) 7014 (12.03%) 452 (0.77%) 763 (1.31%) 11372	(0.88%) 339 (2.28%) 66 (0.44%) 146 (0.98%) 2096 (14.09%) 131 (0.88%) 250 (1.68%) 3699	(0.87%) 128 (2.93%) 20 (0.46%) 37 (0.85%) 616 (14.12%) 36 (0.83%) 71 (1.63%) 948	67 (2.74%) 11 (0.45%) 18 (0.74%) 353 (14.44%) 18 (0.74%) 38 (1.55%) 499	6 (3.64%) 0 (0%) 1 (0.61%) 19 (11.52%) 4 (2.42%) 3 (1.82%)	5 (3.12%) 2 (1.25%) 1 (0.62%) 21 (13.12%) 0 (0%) 4 (2.5%)	16 (3.62%) 4 (0.9%) 7 (1.58%) 60 (13.57%) 2 (0.45%) 7 (1.58%)	34 (2.95%) 3 (0.26%) 10 (0.87%) 163 (14.16%) 12 (1.04%) 19 (1.65%)	< 0.001	0.003
2A1 2A2 2B 3 3A 3A	1453 (2.49%) 353 (0.61%) 614 (1.05%) 7014 (12.03%) 452 (0.77%) 763 (1.31%) 11372 (19.5%)	(0.88%) 339 (2.28%) 66 (0.44%) 146 (0.98%) 2096 (14.09%) 131 (0.88%) 250 (1.68%) 3699 (24.87%)	(0.87%) 128 (2.93%) 20 (0.46%) 37 (0.85%) 616 (14.12%) 36 (0.83%) 71 (1.63%) 948 (21.73%)	67 (2.74%) 11 (0.45%) 18 (0.74%) 353 (14.44%) 18 (0.74%) 38 (1.55%) 499 (20.41%)	6 (3.64%) 0 (0%) 1 (0.61%) 19 (11.52%) 4 (2.42%) 3 (1.82%) 49 (29.7%)	5 (3.12%) 2 (1.25%) 1 (0.62%) 21 (13.12%) 0 (0%) 4 (2.5%) 49 (30.63%)	16 (3.62%) 4 (0.9%) 7 (1.58%) 60 (13.57%) 2 (0.45%) 7 (1.58%) 124 (28.05%)	34 (2.95%) 3 (0.26%) 10 (0.87%) 163 (14.16%) 12 (1.04%) 19 (1.65%) 227 (19.72%)	< 0.001	0.003
2A1 2A2 2B 3 3A 3A 4	1453 (2.49%) 353 (0.61%) 614 (1.05%) 7014 (12.03%) 452 (0.77%) 763 (1.31%) 11372 (19.5%) 699 (1.2%) 2052	(0.88%) 339 (2.28%) 66 (0.44%) 146 (0.98%) 2096 (14.09%) 131 (0.88%) 250 (1.68%) 3699 (24.87%) 187 (1.26%) 617	(0.87%) 128 (2.93%) 20 (0.46%) 37 (0.85%) 616 (14.12%) 36 (0.83%) 71 (1.63%) 948 (21.73%) 87 (1.99%)	67 (2.74%) 11 (0.45%) 18 (0.74%) 353 (14.44%) 18 (0.74%) 38 (1.55%) 499 (20.41%) 54 (2.21%)	6 (3.64%) 0 (0%) 1 (0.61%) 19 (11.52%) 4 (2.42%) 3 (1.82%) 49 (29.7%) 1 (0.61%)	5 (3.12%) 2 (1.25%) 1 (0.62%) 21 (13.12%) 0 (0%) 4 (2.5%) 49 (30.63%) 1 (0.62%)	16 (3.62%) 4 (0.9%) 7 (1.58%) 60 (13.57%) 2 (0.45%) 7 (1.58%) 124 (28.05%) 6 (1.36%)	34 (2.95%) 3 (0.26%) 10 (0.87%) 163 (14.16%) 12 (1.04%) 19 (1.65%) 227 (19.72%) 25 (2.17%)	< 0.001	0.003
2A1 2A2 2B 3 3A 3A	1453 (2.49%) 353 (0.61%) 614 (1.05%) 7014 (12.03%) 452 (0.77%) 763 (1.31%) 11372 (19.5%) 699 (1.2%)	(0.88%) 339 (2.28%) 66 (0.44%) 146 (0.98%) 2096 (14.09%) 131 (0.88%) 250 (1.68%) 3699 (24.87%) 187 (1.26%)	(0.87%) 128 (2.93%) 20 (0.46%) 37 (0.85%) 616 (14.12%) 36 (0.83%) 71 (1.63%) 948 (21.73%) 87 (1.99%)	67 (2.74%) 11 (0.45%) 18 (0.74%) 353 (14.44%) 18 (0.74%) 38 (1.55%) 499 (20.41%) 54 (2.21%)	6 (3.64%) 0 (0%) 1 (0.61%) 19 (11.52%) 4 (2.42%) 3 (1.82%) 49 (29.7%) 1 (0.61%)	5 (3.12%) 2 (1.25%) 1 (0.62%) 21 (13.12%) 0 (0%) 4 (2.5%) 49 (30.63%) 1 (0.62%)	16 (3.62%) 4 (0.9%) 7 (1.58%) 60 (13.57%) 2 (0.45%) 7 (1.58%) 124 (28.05%) 6 (1.36%)	34 (2.95%) 3 (0.26%) 10 (0.87%) 163 (14.16%) 12 (1.04%) 19 (1.65%) 227 (19.72%) 25 (2.17%)	< 0.001	0.003

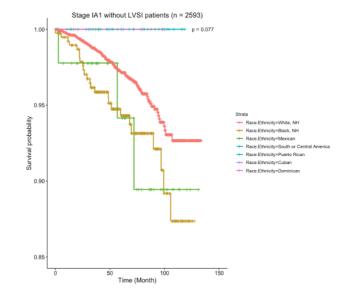
1	Frequency table of treatments stratified b	v quality matric groups
4.	rrequency table of treatments strainled b	ov quanty metric groups

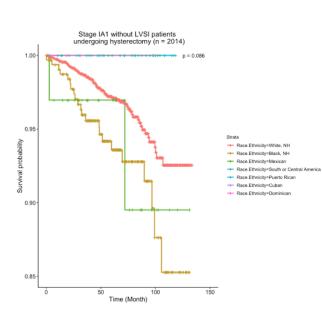
4. Frequer	icy table of trea	itilielits stratilieu i	<u>y quality metric gro</u>	ups				
Quality Metric Group	Stage IA1 without LVSI patients undergoing surgery (n = 2593; %)	Stage IA2-IIA2 patients undergoing hysterectomy as primary treatment (n = 16174; %)	Stage IA2-IIA2 patients undergoing surgery with positive lymph nodes or positive margins (n = 2678; %)	Stage IB2- IVA patients undergoing primary radiation (n = 31067; %)	Stage IVB patients without undergoing surgery as primary treatment (n = 6714; %)	Stage IA1-IIA patients (n = 36592; %)	Stage IIB- IIIB patients (n = 27448; %)	Stage IIB- IVA patients (n = 30223; %)
Primary Treatment: the	first course of tre	eatment						
	2593	16174	2678	0	0	26418	3148	3316
Surgery	(100%)	(100%)	(100%)	(0%)	(0%)	(72.2%)	(11.47%)	(10.97%)
Radiation	0	0	0	26516	4019	6911	18326	20001
	(0%)	(0%)	(0%)	(85.35%) 4551	(59.86%) 2695	(18.89%) 1488	(66.77%) 4028	(66.18%) 4537
Chemotherapy	(0%)	(0%)	(0%)	(14.65%)	(40.14%)	(4.07%)	(14.68%)	(15.01%)
Unknown	0	0	0	0	0	1775	1946	2369
	(0%)	(0%)	(0%)	(0%)	(0%)	(4.85%)	(7.09%)	(7.84%)
Non-radical Surgery: re				<b>T</b>	T	T	I	I
No	579	10607	1877	29931	6620	22236	24761	27419
	(22.33%)	(65.58%) 5567	(70.09%) 801	(96.34%) 1136	(98.6%) 94	(60.77%) 14356	(90.21%) 2687	(90.72%) 2804
Yes	(77.67%)	(34.42%)	(29.91%)	(3.66%)	(1.4%)	(39.23%)	(9.79%)	(9.28%)
Radical Hysterectomy:				(= )		(======	(= ====	(
<u>-</u>	2204	7535	1134	30526	6646	26058	26599	29284
No	(85%)	(46.59%)	(42.35%)	(98.26%)	(98.99%)	(71.21%)	(96.91%)	(96.89%)
Yes	389	8639	1544	541	68	10534	849	939
	(15%)	(53.41%)	(57.65%)	(1.74%)	(1.01%)	(28.79%)	(3.09%)	(3.11%)
<b>Hysterectomy: received</b>	the treatment at a	ny time point						
No	657	0	0	29261	6536	13567	25178	27799
110	(25.34%)	(0%)	(0%)	(94.19%)	(97.35%)	(37.08%)	(91.73%)	(91.98%)
Yes	1936 (74.66%)	16174 (100%)	2678 (100%)	1806 (5.81%)	178 (2.65%)	23025 (62.92%)	2270 (8.27%)	2424 (8.02%)
Lymph node assessment				(5.0170)	(2.0370)	(02.5270)	(0.2770)	(0.0270)
	1906	1847	182	27972	6172	17345	23531	26066
No	(73.51%)	(11.42%)	(6.8%)	(90.04%)	(91.93%)	(47.4%)	(85.73%)	(86.25%)
Yes	687	14327	2496	3095	542	19247	3917	4157
168	(26.49%)	(88.58%)	(93.2%)	(9.96%)	(8.07%)	(52.6%)	(14.27%)	(13.75%)
Adjuvant Chemoradiati								
No	2570	12992	1062	31067	6714	32012	25345	28041
110	(99.11%)	(80.33%)	(39.66%) 1616	(100%)	(100%)	(87.48%)	(92.34%)	(92.78%)
Yes	(0.89%)	(19.67%)	(60.34%)	(0%)	(0%)	4580 (12.52%)	2103 (7.66%)	2182 (7.22%)
Surgery: received the tr			(0012 170)	(0,0)	(0,0)	(12.0270)	(7.0070)	(1.2270)
	0	0	0	29099	6505	9021	23264	25781
No	(0%)	(0%)	(0%)	(93.67%)	(96.89%)	(24.65%)	(84.76%)	(85.3%)
Yes	2593	16174	2678	1968	209	27571	4184	4442
	(100%)	(100%)	(100%)	(6.33%)	(3.11%)	(75.35%)	(15.24%)	(14.7%)
Radiation: received the	treatment at any t	ime point						
No	2521	10990	682	0	1625	21281	3383	4069
110	(97.22%)	(67.95%)	(25.47%)	(0%)	(24.2%)	(58.16%)	(12.33%)	(13.46%)
Yes	72 (2.78%)	5184 (32.05%)	1996 (74.53%)	31067 (100%)	5089 (75.8%)	15311 (41.84%)	24065 (87.67%)	26154 (86.54%)
Chemotherapy: received			(11.5570)	(10070)	(10.070)	(.1.01/0)	(07.0770)	(00.01/0)
	2561	12482	867	4662	1146	24464	5610	6504
No	(98.77%)	(77.17%)	(32.37%)	(15.01%)	(17.07%)	(66.86%)	(20.44%)	(21.52%)
Yes	32	3692	1811	26405	5568	12128	21838	23719
	(1.23%)	(22.83%)	(67.63%)	(84.99%)	(82.93%)	(33.14%)	(79.56%)	(78.48%)
Chemoradiation: chemo			ert of radiation, vice vers					
No	2570	12992	1062	5879	3528	25760	7514	8743
	(99.11%)	(80.33%)	(39.66%) 1616	(18.92%) 25188	(52.55%) 3186	(70.4%) 10832	(27.38%) 19934	(28.93%) 21480
Yes	(0.89%)	(19.67%)	(60.34%)	(81.08%)	(47.45%)	(29.6%)	(72.62%)	(71.07%)
	(0.0270)	(27.07.49)	(00.0.70)	(52.0070)	(.,)	(=>.070)	(.2.02/0)	(. 2.0.70)

# 5. Survival curves

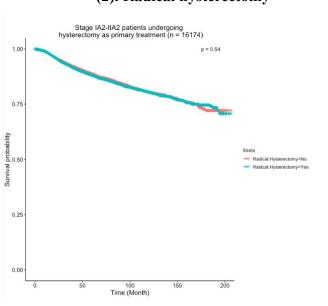
# (1). Non-radical surgery

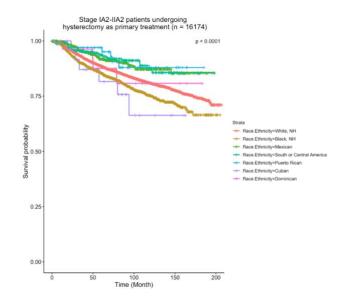


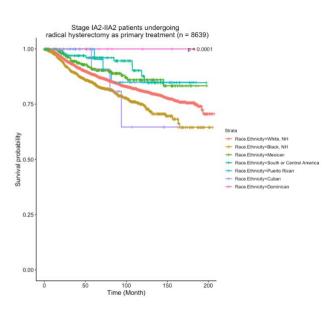




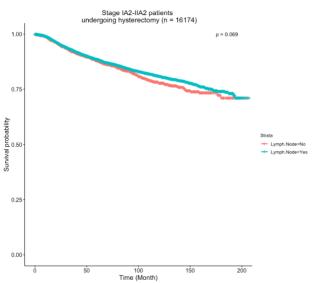
# (2). Radical hysterectomy

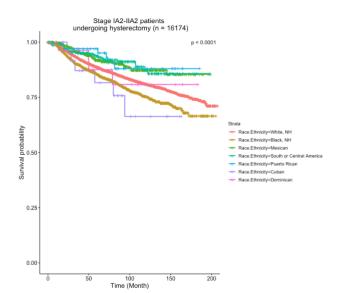


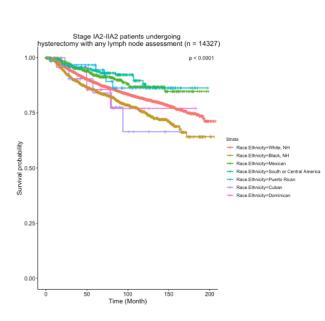




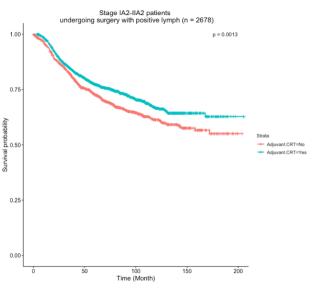
## (3). Lymph node assessment

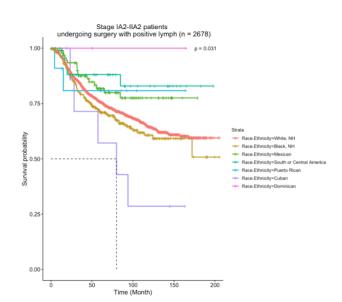


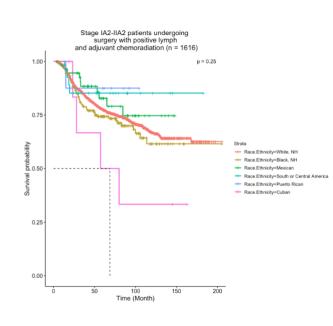




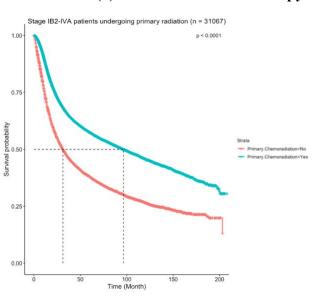
#### (4). Adjuvant chemoradiation

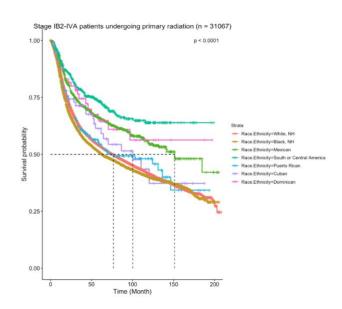


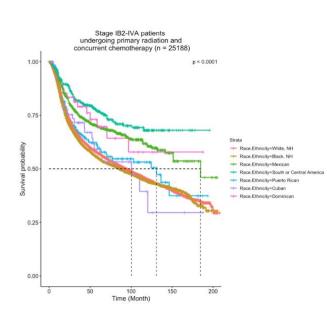




# (5). Concurrent chemotherapy







## (6). Chemotherapy Stage IVB patients (n = 6714) Stage IVB patients undergoing chemotherapy (n = 5568) Stage IVB patients (n = 6714) p < 0.0001 1.00 p < 0.0001 1.00 0.75 0.75 0.75 → Race.Ethnicity=White, NH → Race.Ethnicity=Black, NH Race.Ethnicity=Black, NH + Race.Ethnicity=Mexican - Race.Ethnicity=Mexican Race.Ethnicity=South or Cer Race.Ethnicity=Puerto Ricar → Race.Ethnicity=South or Central → Race.Ethnicity=Puerto Rican -- Race.Ethnicity=Cuban - Race.Ethnicity=Cuban - Race.Ethnicity=Domin - Race.Ethnicity=Dominican 0.25 0.00 100 Time (Month) 100 Time (Month) 100 Time (Month) (7). Timely initiation of treatment in early-stage disease Stage IA1-IIA patients (n = 36592) Stage IA1-IIA patients (n = 36592) Stage IA1-IIA patients undergoing primary treatments within 60 calendar days of diagnosis (n = 29974) 1.00 p < 0.0001 1.00 0.75 → Race.Ethnicity=White, NH → Race.Ethnicity=Black, NH → Race.Ethnicity=Mexican Race.Ethnicity=White, NH Race.Ethnicity=Black, NH Race.Ethnicity=Mexican Race.Ethnicity=South or Centra Race.Ethnicity=South or Central Race.Ethnicity=Puerto Rican Race.Ethnicity=Cuban Race.Ethnicity=Dominican 0.50 Race.Ethnicity=Puerto Rican Race.Ethnicity=Cuban Race.Ethnicity=Dominican 0.25 0.25 100 Time (Month) (8). Timely initiation of treatment in locally advanced disease Stage IIB-IVA patients undergoing primary treatment within 60 calendar days of diagnosis (n = 23584) Stage IIB-IVA patients (n = 30223) Stage IIB-IVA patients (n = 30223) 1.00 p < 0.0001 0.75 0.75 Strata Race Ethnicity=White, NH Race Ethnicity=Black, NH Race Ethnicity=Mexican Race Ethnicity=South or Central An Race Ethnicity=Puerto Rican Race Ethnicity=Cuban Race Ethnicity=Cuban Race.Ethnicity=Black, NH Q 0.50 Race Ethnicity=Mexican Race Ethnicity=South or Centra 0.25 0.25 (9). Treatment for locally advanced disease Stage IIB-IIIB patients (n = 27448) Stage IIB-IIIB patients (n = 27448) Stage IIB-IIIB patients with primary treatments (n = 25502) 0.75 0.75 0.75

