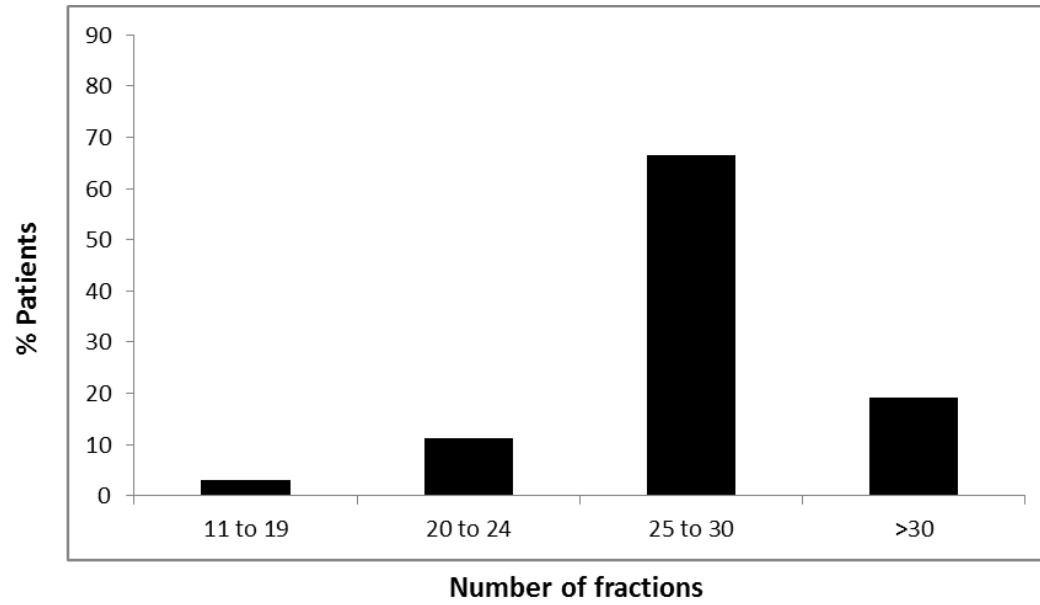


Figures**eFigure 1. Distribution of number of external beam radiation fractions.**

eTable 1. Predictors of receipt of brachytherapy, HDR brachytherapy, IMRT, and chemotherapy

Variable	Received Brachytherapy Boost Hosmer-Lemeshow P=0.96				Received HDR Brachytherapy Hosmer-Lemeshow P=0.99			
	Adjusted OR	95% CI		P	Adjusted OR	95% CI		P
<i>Patient attributes</i>								
Age	0.96	0.95 - 0.98		<0.001	1.01	1.00 - 1.03		0.04
Pelvic/paraortic node involved	0.54	0.36 - 0.80		0.002	1.01	0.71 - 1.46		0.94
Hydronephrosis	0.45	0.31 - 0.65		<0.001	0.64	0.44 - 0.93		0.02
<i>Treatment attributes</i>								
Year of treatment				0.75				<0.001
1999	0.54	0.08 - 3.63		0.53	0.126	0.013 - 1.27		0.08
2000	1.04	0.26 - 4.15		0.96	0.11	0.03 - 0.41		0.001
2001	0.86	0.28 - 2.60		0.78	0.17	0.07 - 0.44		0.002
2002	1.20	0.47 - 3.03		0.71	0.22	0.11 - 0.46		<0.001
2003	0.85	0.40 - 1.83		0.68	0.20	0.11 - 0.38		<0.001
2004	1.09	0.51 - 2.32		0.82	0.29	0.16 - 0.53		<0.001

2005	0.76	0.39	1.48	0.41	0.39	0.22	-	0.67	<0.001
2006	2.31	0.91	5.86	0.08	0.56	0.32	-	0.98	0.04
2007	0.92	0.46	1.83	0.81	0.70	0.41	-	1.20	0.19
2008	1.21	0.62	2.35	0.58	0.88	0.53	-	1.46	0.63
2009	1.17	0.60	2.29	0.65	0.88	0.53	-	1.45	0.62
2010	0.94	0.51	1.76	0.85	1.44	0.87	-	2.39	0.16
2011 (referent)	-				-				
Received concurrent chemotherapy	1.60	1.11	2.30	0.01	1.26	0.92		1.72	0.16
Received IMRT	2.84	1.62	5.01	<0.001	1.18	0.82		1.68	0.37
Received HDR brachytherapy	-				-				
<i>Sociodemographic attributes</i>									
HMO vs other insurance	0.92	0.57	1.49	0.74	1.16	0.80		1.67	0.44
Employee vs other	0.79	0.58	1.10	0.16	1.16	0.89		1.51	0.29
Geographic region				0.56					0.04
Northeast	0.70	0.41	1.20	0.19	1.21	0.81		1.81	0.35

Midwest	-				1.32	0.98	1.80	0.07
South (referent)	0.79	0.53	1.18	0.25	-			
West	0.79	0.46	1.37	0.40	1.80	1.16	2.80	0.009
Population, persons per county >1,000,000 vs ≤1,000,000	0.87	0.47	1.61	0.66	0.77	0.55	1.07	0.11
No. of radiation oncologists per HSA ≤10 vs >10	1.21	0.63	2.33	0.56	1.24	0.94	1.65	0.13

Abbreviations: HDR, high-dose rate; HMO, health maintenance organization; HSA, health services area; IMRT, intensity-modulated radiation therapy; OR, odds ratio.

eTable 1, continued

Variable	Received IMRT Hosmer-Lemeshow P=0.43				Received Chemotherapy Hosmer-Lemeshow P=0.94				
	Adjusted OR	95% CI		P	Adjusted OR	95% CI		P	
<i>Patient attributes</i>									
Age	1.01	0.99	1.03	0.10	0.97	0.96	0.99	<0.001	
Pelvic/ paraaortic node involved	1.64	1.12	2.39	0.01	1.36	0.92	2.01	0.12	
Hydronephrosis	0.89	0.58	1.37	0.59	1.13	0.78	1.64	0.53	
<i>Treatment attributes</i>									
Year of treatment				<0.001				0.15	
1999	-				0.15	0.02	0.88	0.04	
2000	-				0.83	0.24	2.82	0.76	
2001	-				0.47	0.19	1.14	0.10	
2002	-				0.63	0.30	1.35	0.24	
2003	0.02	0.003	0.18	<0.001	0.55	0.29	1.05	0.07	
2004	0.04	0.008	0.15	<0.001	0.58	0.31	1.09	0.09	

2005	0.12	0.05	0.27	<0.001	0.44	0.25	0.79	0.01
2006	0.29	0.15	0.56	<0.001	0.87	0.45	1.67	0.68
2007	0.27	0.15	0.50	<0.001	0.94	0.51	1.74	0.84
2008	0.40	0.24	0.66	<0.001	1.10	0.61	1.99	0.74
2009	0.64	0.40	1.03	0.06	0.95	0.53	1.70	0.86
2010	0.97	0.63	1.49	0.88	0.88	0.51	1.53	0.66
2011 (referent)	-				-			
Received concurrent chemotherapy	2.62	1.58	4.33	<0.001	-			
Received IMRT	-				2.31	1.51	3.54	<0.001
Received HDR	1.01	0.75	1.36	0.94		1.33	2.62	<0.001
<i>Sociodemographic attributes</i>								
HMO vs other insurance	1.26	0.82	1.93	0.30	1.10	0.73	1.67	0.60
Employee vs other	0.90	0.66	1.23	0.52	0.94	0.70	1.27	0.22
Geographic region				0.71				0.60
Northeast	1.11	0.72	1.70	0.64	0.68	0.44	1.04	0.30

Midwest	0.86	0.60	1.24	0.42	0.73	0.52	1.02	0.11
South (referent)	-				-			
West	0.89	0.56	1.41	0.62	0.98	0.60	1.59	0.70
Population, persons per county >1,000,000 vs ≤1,000,000	1.47	1.03	2.10	0.04	0.86	0.60	1.25	0.35
No. of radiation oncologists per HSA ≤10 vs >10	1.07	0.77	1.48	0.68	0.90	0.66	1.23	0.21

eTable 2.

Variable	International Classification of Diseases (ICD) Diagnosis or Procedure Code	Current Procedural Terminology (CPT) Code
Cervical cancer diagnosis	180.0, 180.1, 180.8, 180.9	
History of cervical cancer diagnosis	V10.40	
Metastatic cancer	196, 196.0-3, 196.5-6, 196.8-9	
Cervical surgery	68.4, 68.41, 68.49; 68.5, 68.51, 68.59; 68.6, 68.61, 68.69; 68.7, 68.71, 68.79; 68.9	57530-57531, 57540, 57545, 57550, 57555-6, 58150, 58152, 58180, 58200, 58210, 58240, 58260, 58262-3, 58267, 58270, 58275, 58280, 58285, 58290-4, 58548, 58550, 58552-4, 58570-3
Brachytherapy		76965, 77326-77328, 77761-77799, C1715, C1728, Q3001, 55920, 57155, 57156, 58346

External beam radiation	92.21-92.27	77401-77416, 77418, 77422, 77423, 77522-77525, G0174
Chemotherapy	99.25	J9000-J9999, C9418, C9420, C9421, C9415, C9418, Q2048, Q2049, C9280, C9414, C9425, 96400-96549, Q0083-Q0085, G0359-G0361, G9021-G9032, J8520, J8521, J8530, J8540, J8560, J8597, J8610, J8510, J8700, J8999, J8565, J8600, G0355, G0356, C9240, C9127, C9431, C9292, C9440
Platinum chemotherapy		J9060, J9045, J9062, C9418
Procedure indicating hydronephrosis	55.02, 55.03, 55.04, 58.5, 57.94, 57.95, 59.93, 59.94, 97.61, 97.62, 97.63, 97.64, 97.65, 97.69	50040, 50125, 50382, 50382, 50384, 50385, 50386, 50387, 50389, 50392, 50393, 50395, 50398, 50605, 50947, 50948, 51702, 51703, 51705, 51710, 52005, 52282, 52332, 52334, 59960, 59969
