

**Appendix 1. Baseline Patients' Characteristics Before Propensity Score Matching (n=2,157)**

	High-volume centers (N=619)	Mid-volume centers (N=1349)	Low-volume centers (N=189)	P-value
Age (years) (mean ± SD)	44.7 ± 10.3	48.4 ± 11.6	46.2 ± 10.7	<0.0001
Pathological stage				0.001
IB1	567 (91.6%)	1158 (85.8%)	158 (83.6%)	
IB2	38 (6.1%)	114 (8.5%)	23 (12.2%)	
IIA1	14 (2.3%)	77 (5.7%)	8 (4.2%)	
Histology				0.16
Squamous	383 (61.9%)	877 (65.0%)	119 (63.0%)	
Adenocarcinoma	193 (31.2%)	383 (28.4%)	48 (25.4%)	
Adenosquamous	27 (4.4%)	61 (4.5%)	16 (8.5%)	
Others	16 (2.5%)	28 (2.1%)	3 (1.6%)	
Unknown	0	0	3 (1.6%)	
Grade				<0.0001
1	27 (4.4%)	182 (13.5%)	32 (16.9%)	
2	540 (87.2%)	829 (61.5%)	81 (42.9%)	
3	52 (8.4%)	338 (25.1%)	76 (40.2%)	
LVSI				<0.0001
No	277 (44.7%)	644 (47.7%)	107 (56.6%)	
Yes	169 (27.3%)	531 (39.4%)	54 (28.6%)	
Unknown	173 (27.9%)	174 (12.9%)	28 (14.8%)	
Diameter (mm) (mean ± SD)	20.2 ± 12.1	23.3 ± 13.2	23.8 ± 13.5	<0.0001
Diameter				<0.0001
≤ 20 mm	379 (61.2%)	703 (52.1%)	93 (49.2%)	
> 20 mm	240 (38.8%)	646 (47.9%)	96 (50.8%)	
Surgical Approach				0.016
Open	429 (69.3%)	871 (64.6%)	111 (58.7%)	
Others	190 (30.7%)	478 (35.4%)	78 (41.3%)	
Adjuvant therapy				<0.0001
No	557 (90.0%)	813 (60.3%)	127 (67.2%)	
Yes	62 (10.0%)	536 (39.7%)	62 (32.8%)	

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**Appendix 2. Survival Associated With Continuous Cutoffs of Average Radical Hysterectomies Performed in Each Center Every Year\***

Average N RH ≤ vs >	N of pts	% DFS	P value	Difference in % (95% CI)
Cut-off 4	38 vs 2119	80.9 vs 88.8	0.44	-7.9% (-20.5; +4.7%)
Cut-off 5	134 vs 2023	79.1 vs 89.2	0.002	-10.1% (-17.1; -3.1%)
Cut-off 6	189 vs 1968	81.5 vs 89.2	0.002	-7.7% (-13.4%; -2.0%)
Cut-off 8	337 vs 1820	85.2 vs 89.1	0.03	-3.9% (-7.9%; +0.2%)
Cut-off 9	577 vs 1580	88.0 vs 88.8	0.75	-0.8% (-3.9%; +2.3%)
Cut-off 10	643 vs 1514	87.1 vs 89.3	0.23	-2.2% (-5.2%; +0.8%)
Cut-off 12	763 vs 1394	88.0 vs 89.0	0.55	-1.0% (-3.8%; +1.8%)
Cut-off 14	896 vs 1261	87.4 vs 89.5	0.21	-2.1%- (4.9%; +0.6%)
Cut-off 15	1218 vs 939	87.2 vs 90.7	0.016	-3.5% (-6.1%; -0.9%)
Cut-off 16	1375 vs 782	87.7 vs 90.1	0.07	-2.4% (-5.1%; +0.3%)
Cut-off 17	1538 vs 619	87.2 vs 92.3	<0.0001	-5.1% (-7.8%; -2.4%)

\* Cut-offs of 7, 11 and 13 are missing as no center had performed such average number of radical hysterectomies per year

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**Appendix 3. Timeframe in Which Patients Were Operated in the Different Surgical Volume Groups\***

	<i>Low-volume centers</i>	<i>Middle-volume centers</i>	<i>High-volume centers</i>	<i>p-value</i>
<b>2007-2009</b>	44 (23%)	363 (27%)	127 (33%)	0.015
<b>2010-2012</b>	56 (30%)	402 (30%)	102 (27%)	
<b>2013-2015</b>	59 (31%)	459 (34%)	114 (30%)	
<b>2016</b>	30 (16%)	125 (9%)	40 (10%)	

\* *RH year is missing for 236 patients*

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#### Appendix 4. Proportional Hazard Model Before Propensity Score Matching Affected Disease-Free Survival

	UNIVARIATE HR (95% CI)		MULTIVARIATE (all variables) HR (95% CI)	
Age in years	1.01 (1.00-1.02)	p=0.07	1.01 (0.99-1.02)	p=0.22
Stage		p<0.0001		p=0.001
1b1	1.00		1.00	
1b2	2.28 (1.58-3.29)		1.62 (1.09-2.41)	
2a1	2.50 (1.62-3.85)		2.07 (1.31-3.26)	
LVSI		p<0.0001		p=0.002
No	1.00		1.00	
Yes	1.87 (1.43-2.44)		1.59 (1.19-2.13)	
unknown	0.33 (0.53-1.24)		0.88 (0.57-1.36)	
Grade		p<0.0001		p=0.004
1	1.00		1.00	
2	2.81 (1.49-5.33)		3.01 (1.56-5.81)	
3	4.10 (2.11-7.95)		3.05 (1.54-6.06)	
Adjuvant therapy		p<0.0001		p=0.20
No	1.00		1.00	
Yes	1.84 (1.42-2.36)		0.82 (0.60-1.11)	
Diameter		p<0.0001		p<0.0001
≤ 20 mm	1.00		1.00	
> 20 mm	2.51 (1.93-3.27)		2.15 (1.61-2.88)	
Surgical Approach		p=0.001		p<0.0001
Open	1.00		1.00	
Others	1.57 (1.22-2.02)		1.89 (1.45-2.46)	
Histotype		p<0.0001		p<0.0001
Squamous	1.00		1.00	
Adenocarcinoma	0.83 (0.62-1.13)		1.16 (0.84-1.60)	
Other	2.40 (1.68-3.43)		2.61 (1.81-3.77)	
Volume per year		p<0.0001		p=0.003
<7	1.00		1.00	
7-17	0.66 (0.46-0.96)		0.66 (0.45-0.96)	
>17	0.39 (0.25-0.60)		0.44 (0.28-0.71)	

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