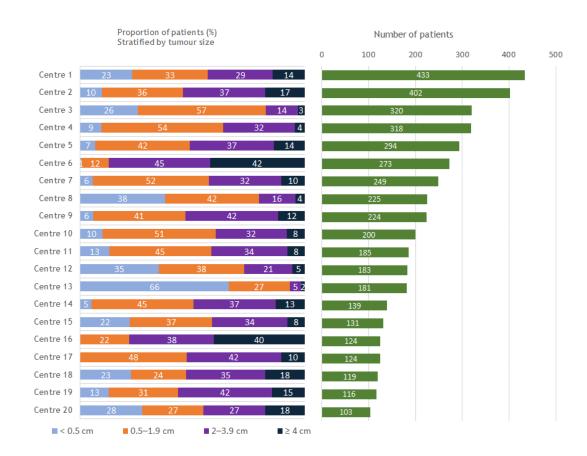
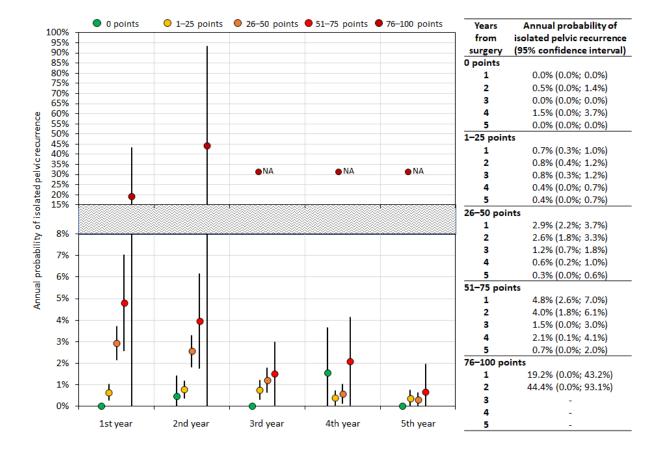
APPENDIX A. Supplementary data



Supplementary Fig. S1 Participating centres. **A:** % clusters of patients stratified according to tumour size. **B:** number of database patients per participating centre.



Supplementary Fig. S2 Landmark analysis of annual risk of isolated pelvic recurrence following surgery. N/A: not analysed.

Supplementary Table S1Cumulative incidence of recurrences

Time since surgery	No. of observed recurrences (cumulative)	Probability of recurrence (Kaplan-Meier estimate)	Cumulative proportion of recurrences (based on K-M estimate)			
1 year	176	0.041	25.6%			
2 years	331	0.077	48.4%			
3 years	419	0.100	62.9%			
4 years	464	0.114	71.9%			
5 years	488	0.123	77.7%			
6 years	505	0.132	83.6%			
7 years	512	0.138	87.1%			
8 years	522	0.149	94.2%			
9 years	526	0.156	98.3%			
10 years	527	0.158	100.0%			

Supplementary Table S2
Univariate analysis of factors associated with disease-free survival/ Annual probability of recurrence according to the respective factor.

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Predictor	Category	N	HR (95% CI)	P	1st year	2nd year	3rd year		5th year	6th year	7th year	8th year	9th year	10th year
Total	-	4 343			4.1%	3.8%	2.5%	1.6%	1.0%	1.1%	0.6%	1.3%	0.8%	0.3%
Age at surgery	< 40	1 501	Reference		4.3%	2.7%	2.2%	1.0%	0.5%	0.7%	0.3%	0.4%	0.6%	0.0%
	40–49	1 343	1.12 (0.89; 1.40)	0.329	3.9%	3.7%	2.0%	1.5%	1.0%	0.5%	0.6%	1.3%	0.7%	0.0%
	50–59	857	1.44 (1.13; 1.82)	0.003	3.6%	4.4%	2.9%	2.7%	1.9%	2.2%	0.9%	1.9%	0.8%	0.0%
	≥ 60	642	1.59 (1.23; 2.05)	< 0.001	4.2%	5.5%	3.7%	1.8%	1.3%	1.5%	1.3%	2.6%	1.3%	2.6%
Surgical approach	Open	2 578	Reference		4.1%	4.1%	2.3%	1.6%	0.9%	1.3%	0.5%	1.4%	0.8%	0.0%
	MIS	1 538	1.10 (0.92; 1.31)	0.313	4.5%	3.7%	3.2%	1.8%	1.4%	0.6%	1.0%	1.2%	0.0%	1.7%
No. of positive pelvic														
LN	0 / not assessed	3 700	Reference		3.0%	2.9%	2.0%	1.2%	0.8%	0.9%	0.7%	1.4%	0.9%	0.4%
	1	282	2.19 (1.65; 2.91)	< 0.001	7.1%	6.6%	4.7%	2.9%	1.5%	1.9%	0.0%	0.0%	0.0%	0.0%
	2	166	3.03 (2.22; 4.13)	< 0.001	7.2%	10.4%	6.9%	6.0%	1.2%	1.5%	0.0%	0.0%	0.0%	0.0%
	≥3	195	4.87 (3.79; 6.27)	< 0.001	17.4%	12.6%	6.6%	4.6%	5.5%	4.0%	0.0%	3.6%	0.0%	n < 20
No. of positive	0 / not assessed	4 293	Reference		3.9%	3.6%	2.4%	1.6%	1.0%	1.0%	0.6%	1.3%	0.8%	0.3%
paraaortic LN	≥1	50	5.40 (3.56; 8.21)	< 0.001	20.0%	20.3%	8.8%	n < 20	n < 20	n < 20	n < 20	n < 20	n < 20	n < 20
Maximal pathologic	< 0.5 cm	711	Reference		0.3%	1.3%	1.0%	1.1%	0.0%	0.0%	0.6%	0.0%	1.2%	0.0%
tumour diameter	0.5–1.9 cm	1 723	2.15 (1.39; 3.33)	< 0.001	1.9%	2.0%	2.0%	0.8%	0.9%	0.5%	0.4%	1.4%	0.5%	0.0%
	2.0-3.9 cm	1 349	5.15 (3.38; 7.85)	< 0.001	5.4%	5.8%	3.6%	1.7%	1.4%	1.9%	0.9%	0.9%	0.0%	1.0%
	≥ 4.0 cm	560	9.17 (5.96; 14.11)	< 0.001	12.2%	8.1%	3.3%	5.2%	2.1%	2.4%	0.8%	3.5%	3.3%	0.0%
LVSI	No / not assessed*	2 787	Reference		2.3%	2.2%	1.7%	1.1%	0.8%	0.7%	0.6%	1.1%	0.8%	0.4%
	Yes	1 556	2.72 (2.29; 3.24)	< 0.001	7.1%	6.7%	4.1%	2.7%	1.6%	1.7%	0.6%	1.7%	0.7%	0.0%
Tumour histotype	Squamous	2 966	Reference		3.9%	3.4%	1.8%	1.4%	0.6%	0.7%	0.8%	1.5%	0.9%	0.0%
**	Adeno	1 072	1.12 (0.91; 1.37)	0.292	3.3%	3.3%	3.4%	1.1%	1.9%	1.9%	0.3%	0.5%	0.7%	1.3%
	Adenosquamous	206	2.11 (1.54; 2.88)	< 0.001	5.8%	7.7%	4.2%	4.7%	2.9%	1.4%	0.0%	0.0%	0.0%	n < 20
	Neuro	43	5.46 (3.44; 8.68)	< 0.001	20.9%	17.6%	10.9%	5.0%	n < 20					
	Other	56	2.72 (1.65; 4.50)	< 0.001	7.1%	7.8%	8.8%	5.4%	3.7%	0.0%	n < 20	n < 20	n < 20	n < 20
Grade	1	599	Reference		1.0%	1.9%	1.2%	0.8%	0.6%	0.4%	0.6%	1.1%	0.0%	0.0%
	2	1 628	2.30 (1.58; 3.34)	< 0.001	3.4%	3.3%	2.6%	2.3%	1.5%	1.5%	0.7%	0.7%	0.5%	1.1%
	3	917	3.76 (2.58; 5.48)	< 0.001	7.1%	6.4%	3.8%	1.6%	0.6%	1.7%	0.5%	3.2%	1.3%	0.0%
	Unknown	1 199	2.09 (1.42; 3.07)	< 0.001	4.1%	3.4%	2.1%	1.0%	0.9%	0.4%	0.6%	1.1%	1.0%	0.0%
pT	1a1	550	Reference		0.0%	1.1%	0.7%	0.9%	0.0%	0.0%	0.0%	0.0%	2.1%	0.0%
•	1a2	421	2.65 (1.37; 5.13)	0.004	1.4%	1.5%	2.0%	1.0%	0.4%	0.0%	0.9%	2.5%	1.7%	0.0%
	1b1	2 709	4.84 (2.78; 8.42)	< 0.001	3.7%	3.6%	2.4%	1.2%	1.1%	1.4%	0.5%	1.0%	0.0%	0.5%
	1b2	321	11.56 (6.42; 20.81)	< 0.001	11.3%	6.5%	3.1%	5.2%	1.4%	2.5%	0.0%	4.8%	0.0%	0.0%
	2a1	155	12.36 (6.63; 23.02)	< 0.001	4.5%	13.0%	8.6%	3.5%	1.3%	0.0%	5.5%	0.0%	0.0%	n < 20
	2a2	39	22.12 (10.64; 46.00)	< 0.001	25.6%	6.9%	0.0%	11.2%	n < 20					
	2b	148	14.28 (7.69; 26.51)	< 0.001	11.5%	9.2%	6.7%	4.9%	2.9%	0.0%	0.0%	4.8%	n < 20	n < 20
Parametrial invasion	No	4 195	Reference		3.8%	3.6%	2.4%	1.5%	1.0%	1.1%	0.7%	1.2%	0.6%	0.3%
	Yes	148	2.89 (2.12; 3.93)	< 0.001	11.5%	9.2%	6.7%	4.9%	2.9%	0.0%	0.0%	4.8%	n < 20	n < 20
		1.1.	1					1 11.00	· .					

^{*} Univariable analysis of LVSI showed that records with missing LVSI variable were not significantly differing from LVSI negative patients (HR 1.14 (95% CI: 0.70; 1.85); p=0.596) and were therefore pooled together.

LN: lymph node; LVSI: lymphovascular space invasion; MIS: minimally invasive surgery (laparoscopic, robotic, combined)

Supplementary Table S3

Presence of symptoms at the time of recurrence diagnosis and recurrence localization according to the risk group

	No. of patients	No. of recurrences	Presence of	symptoms	Localization of recurrence				
		(all patients)	Asymptomatic	Symptomatic	Pelvic	Distant	Combined		
0 points	213	4* (2%)	1 (50%)	1 (50%)	3 (75%)	0 (0%)	1 (25%)		
1–25 points	1844	97* (5%)	40 (47%)	45 (53%)	51 (53%)	21 (22%)	25 (26%)		
26–50 points	1899	284*(15%)	109 (45%)	135 (55%)	142 (51%)	74 (27%)	62 (22%)		
51–75 points	374	131* (35.0%)	37 (31%)	82 (69%)	40 (32%)	50 (39%)	37 (29%)		
76-100 points	13	12 (92%)	2 (17%)	10 (83%)	4 (33%)	4 (33%)	4 (33%)		

Chi-squared Test for Trend in Proportions in presence of symptoms: P = 0.003. Chi-squared Test for Trend in Proportions in localization: pelvic P < 0.001; distant P = 0.002; combined P = 0.370.

^{*}Some recurrences are of unknown type/ presence of symptoms.