

Table S1. Details of salvage re-irradiation for locoregional recurrence

Prior RT type	Age	First relapse site	Relapse pattern	Salvage treatment	Reirradiation technique	Median reirradiation interval (months)	Salvage RT doses	Outcomes	Toxicities
VBT	58	Vagina	Intra-RT field	EBRT	Unclear	26	Unclear	AWD	Non
	63	Vagina	Both	Surgery +VBT	3D VBT	33	HRCTV:30Gy/6f PGTV:60.2Gy/28f, PCTV:50.4Gy/28f, HRCTV:30Gy/6f	AWD	G2 proctitis
	61	Vagina/ pelvic	Both	EBRT+VBT	IMRT+3DVBT	37		AWD	Non
	34	Pelvic	Outside RT field	EBRT	Unclear	40	Unclear	AWD	Non
	67	Pelvic	Outside RT field	EBRT	IMRT	17	PCTV:50.4Gy/28f, PGTV:61.2G/28f	AWD	Non
	42	Pelvic	Outside RT field	EBRT	IMRT	40	PCTV:50.4Gy/28f	AWD	Non
	51	Vagina	Intra-RT field	VBT	2D VBT	9	30Gy/6f	AWD	G1 proctitis
	32	Pelvic /PALM	Outside RT field	EBRT	Unclear	23	Unclear	AWD	Non
EBRT+VB T	62	PALM	Outside RT field	EBRT	IMRT	24	PCTV:50.4Gy/28f	AWD	Non
	62	Vaginal	Intra-RT field	EBRT	TOMO	120	PCTV:70.4Gy/33f	AWD	G2 mucous toxicity
	57	PALM	Outside RT field	EBRT	IMRT	20	PCTV:45Gy/25f, PGTV:62.5Gy/25f	AWD	Non G3 haematological toxicity and G2 gastrointestinal toxicity
	79	PALM	Outside RT field	EBRT	TOMO	7	PCTV: 50Gy/20f PGTV: 60Gy/20f	DOD	

AWD: alive without disease. DOD: died of disease.

Table S2. The distribution of PALM according to the ESMO-ESGO-ESTRO risk classification

PALN	ESMO-ESGO-ESTRO risk classes				p
	Low risk	Intermediate risk	High intermediate risk	High risk	
Non-recurrence	12(92.3%)	14(87.5%)	10(55.6%)	16(84.2%)	
Recurrence	1(7.7%)	2(12.5%)	8(44.4%)	3(15.8%)	0.04

ESMO-ESGO-ESTRO: European Society for Medical Oncology (ESMO)–European Society of Gynecological Oncology (ESGO) – European Society for Radiotherapy & Oncology (ESTRO)

Table S3.Independent risk factors of Cox regression analysis for on survival after recurrence in PALM patients group

	Multivariate Cox Regression			p
	HR	95% CI		
Age (years)				
<65	Reference			0.101
≥65	5.314	0.722	39.114	
Prior radiotherapy modes				
VBT	0.637	0.096	4.231	0.641
EBRT±VBT	Reference			
Failure pattern				
Isolated PLAM	Reference			0.423
With pelvic recurrence	4.454	0.226	87.72	0.326
With distant metastasis	0.429	0.081	2.285	0.322
Salvage treatment				
RT	0.02	0.001	0.595	0.024
without RT	Reference			

FIGO: International Federation of Gynecology and Obstetrics; VBT: vaginal brachytherapy; EBRT: external beam radiotherapy; PALM: para-aortic lymph nodes metastasis

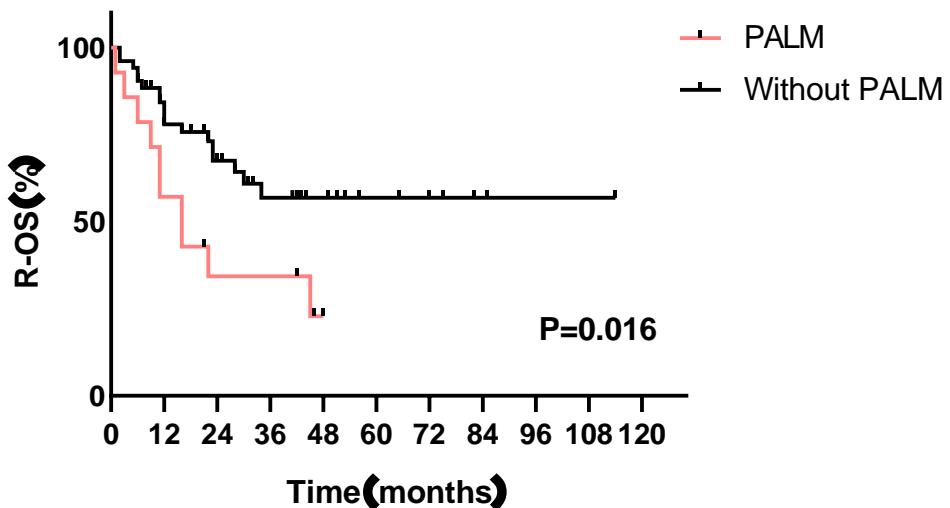


Figure S1. Kaplan-Meier estimates of survival after recurrence (R-OS) according to the status of para-aortic lymph node.

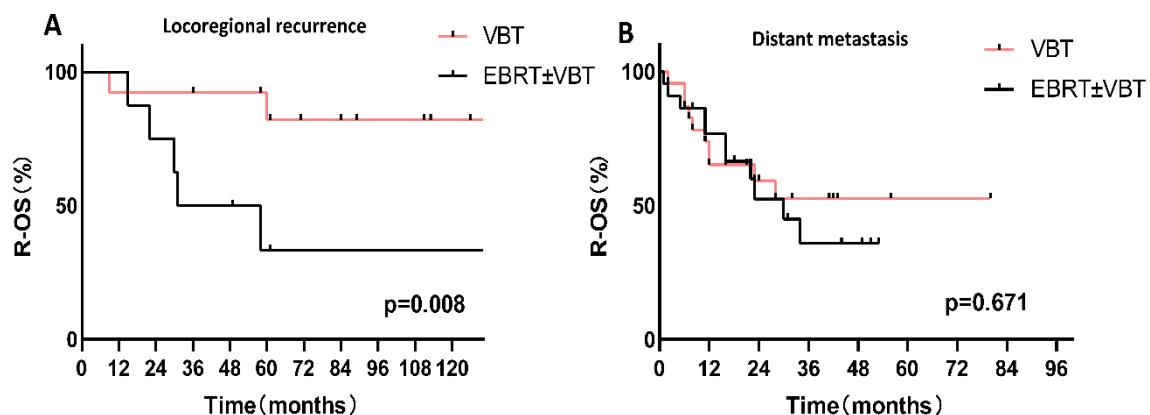


Figure S2. Kaplan-Meier estimates of survival after recurrence (R-OS). (A) R-OS for locoregional recurrence patients categorized by prior RT mode. (B) R-OS for distant metastasis patients categorized by prior RT mode.