

Supplementary Table S1. Detailed data synthesis of included studies.

Study	Year	Sample size	Study design	Age at surgery	Parity	Previous CS	Previous pelvic surgery	History of infertility	BMI	Symptoms	Symptoms	Signs	Signs	Ca 125 level	US signs	Largest tumor size (cm)	Myoma localization	Initial surgery	Type of initial surgery	Morcellation	Mitosis	Atypia	Necrosis	Second surgery	Recurrence	Site of recurrence	Histology of recurrence	Surgical treatment of recurrence	Months of follow up	Pregnancy outcomes	Note
Ning C et al. (27)	2021	16	Casere series	34			Unknown	Unknown	Unknown					Unknown				Myomectomy	LPT	No or in a bag	5-9	Moderate	Absent	No	No				78	Yes	
	2021			44			Unknown	Unknown	Unknown					Unknown				Myomectomy	LPS	Unknown	5-9	Mild	Absent	No	No				71	Yes	
	2021			51			Unknown	Unknown	Unknown					Unknown				TAH + BSO	LPT	No or in a bag	5-9	Mild	Absent	No	No				60	No	
	2021			18			Unknown	Unknown	Unknown					Unknown				TAH + BSO	LPT	No or in a bag	5-9	Mild	Absent	No	No				60	No	
	2021			38			Unknown	Unknown	Unknown					Unknown				Isterectomy	LPS	Unknown	5-9	Moderate	Absent	No	No				60	No	
	2021			51			Unknown	Unknown	Unknown					Unknown				Isterectomy	LPT	No or in a bag	5-9	Mild	Absent	No	No				60	No	
	2021			53			Unknown	Unknown	Unknown					Unknown				TAH + BSO	LPS	Unknown	5-9	Moderate	Absent	No	No				60	No	
	2021			40			Unknown	Unknown	Unknown					Unknown				Isterectomy	LPT	No or in a bag	5-9	Moderate	Absent	No	No				60	No	
	2021			46			Unknown	Unknown	Unknown					Unknown				Isterectomy	LPS	Unknown	5-9	Moderate	Absent	No	No				60	No	
	2021			40			Unknown	Unknown	Unknown					Unknown				Myomectomy	LPS	Unknown	5-9	Severe	Absent	No	No				60	Unknown	
	2021			53			Unknown	Unknown	Unknown					Unknown				Myomectomy	LPS	Unknown	5-9	Moderate	Absent	No	No				60	Unknown	
	2021			23			Unknown	Unknown	Unknown					Unknown				Myomectomy	LPS	Unknown	5-9	Mild	Absent	No	No				60	Unknown	
	2021			38			Unknown	Unknown	Unknown					Unknown				TAH + BSO	LPS	Unknown	5-9	Mild	Absent	No	No				60	No	
	2021			52			Unknown	Unknown	Unknown					Unknown				TAH + BSO	LPT	No or in a bag	5-9	Severe	Absent	No	No				60	No	
	2021			38			Unknown	Unknown	Unknown					Unknown				Myomectomy	LPS	Unknown	5-9	Moderate	Present	No	No				60	Unknown	
	2021			56			Myomectomy	Unknown	Unknown					Unknown				Isterectomy	LPS	Unknown	≥10	Moderate	Absent	No	Yes	Pelvis	STUMP	Mass excision	112	No	Free from disease after 112 months
Akad F et al. (28)	2021	1	Casereport	50	2	0	Unknown	Unknown	Unknown	Abdominal /pelvic pain	Compression of adjacent organs	Pelvic masses	Anemia	Unknown	a mixed structure consisting of both tissue type and cystic component	19,5		TAH + BSO	LPT	No or in a bag	≥10	Mild	Present	No	No					No	

Yadav G et al. (29)	20 21	3	Cas e seri es	reprodu ctive age			Unknow n	Unkn own	Unkn own	AUB			Unkn own	no suspicio n of maligna ncy	7,0	IM	Myome ctomy	LPS	No or in a bag	≥10	Unkn own	Unkn own	TAH + BSO	No					24	Unkno wn	
	20 21			reprodu ctive age			Unknow n	Unkn own	Unkn own	AUB			Unkn own	no suspicio n of maligna ncy	7,0	IM	Myome ctomy	LPS	No or in a bag	≥10	Unkn own	Unkn own	Unkno wn	No					24	Unkno wn	
	20 21			reprodu ctive age			Unknow n	Unkn own	Unkn own	AUB			Unkn own	no suspicio n of maligna ncy	7,0	IM	Myome ctomy	LPS	No or in a bag	≥10	Unkn own	Unkn own	Unkno wn	No					24	Unkno wn	
Jang TK et al. (30)	20 20	1	Cas e rep ort	41	1	1	No	No	> 30	Abdominal /pelvic pain	Asthenia	Pelv ic mas s	Ane mia	< 35	39,0	IM-SS	Isterecto my	LPT	No or in a bag	≥10	Mode rate	Abse nt	No	No					18	No	
Han AKW et al. (31)	20 20	12	Cas e seri es	31	0		No	Unkn own	Unkn own	Abdominal /pelvic pain				Unkn own	no suspicio n of maligna ncy	6,5	Unkno wn	Myome ctomy	LPS	Yes	Unkn own	Unkn own	Unkn own	No	No				1	Unkno wn	
	20 20			37	3	0	No	No	Unkn own	Dysmenorr hea	Menorrhag ia			Unkn own	no suspicio n of maligna ncy	2,7	SM	Myome ctomy	HSC	No or in a bag	Unkn own	Unkn own	Unkn own	TAH + BSO	Yes	Unkno wn	STUM P	TAH + BSO	4	Unkno wn	
	20 20			41	0	0	No	Yes	Unkn own	Incidental ly detected				Unkn own	no suspicio n of maligna ncy	3,3	Unkno wn	Myome ctomy	LPS	Yes	Unkn own	Unkn own	Unkn own	No	No				36	Unkno wn	
	20 20			41	0	0	No	Unkn own	Unkn own	Incidental ly detected				Unkn own	no suspicio n of maligna ncy	10,0	Unkno wn	Myome ctomy	LPS	Yes	Unkn own	Unkn own	Unkn own	No	No				36	Unkno wn	
	20 20			28	0	0	Myome ctomy	No	Unkn own			Pelv ic mas s		Unkn own	no suspicio n of maligna ncy	4,7	Unkno wn	Myome ctomy	Unkn own	No or in a bag	Unkn own	Unkn own	Unkn own	No	No				40	Unkno wn	
	20 20			44	0	0	No	Unkn own	Unkn own	Incidental ly detected				Unkn own	no suspicio n of maligna ncy	4,7	Unkno wn	Myome ctomy	LPS	Yes	Unkn own	Unkn own	Unkn own	No	No				22	Unkno wn	
	20 20			40	0	0	Myome ctomy	Unkn own	Unkn own			Pelv ic mas s		Unkn own	myoma with secondar y degenera tion	12,6	Unkno wn	Isterecto my	LPT	No or in a bag	Unkn own	Unkn own	Unkn own	No	No				23	Unkno wn	
	20 20			36	0	0	No	Unkn own	Unkn own	AUB				Unkn own	no suspicio n of maligna ncy	4,8	Unkno wn	Myome ctomy	LPS	No or in a bag	Unkn own	Unkn own	Unkn own	No	No				24	Unkno wn	
	20 20			29	0	0	No	Unkn own	Unkn own			Pelv ic mas s		Unkn own	no suspicio n of maligna ncy	7,4	Unkno wn	Myome ctomy	LPS	Yes	Unkn own	Unkn own	Unkn own	No	No				24	Yes	
	20 20			23	0	0	No	Unkn own	Unkn own	Dysmenorr hea	Menorrhag ia			Unkn own	no suspicio n of maligna ncy	6,2	Unkno wn	Myome ctomy	LPS	Yes	Unkn own	Unkn own	Unkn own	No	No				24	No	
	20 20			42	0	0	No	Yes	Unkn own	Incidental ly detected				Unkn own	no suspicio n of	5,8	Unkno wn	Myome ctomy	LPS	Yes	Unkn own	Unkn own	Unkn own	TAH + BSO	Yes	Unkno wn	STUM P	TAH + BSO	16	No	

															malignancy																			
	2020			41	0	0	No	Yes	Unknown	Incidentally detected				Unknown		4,0	Unknown	Myomectomy	LPS	No or in a bag	Unknown	Unknown	Unknown	No	No							12	Unknown	
Zheng YY et al. (32)	2020	26	Cases	31			Unknown	Unknown	Unknown	Menorrhagia	Abdominal/pelvic pain			Unknown		6,5	IM	Myomectomy	LPT	No or in a bag	5-9	Mode rate	Present	No	No						96	Unknown		
	2020			48			Unknown	Unknown	Unknown	Incidentally detected				Unknown		10,0	IM	Myomectomy	LPT	No or in a bag	0-4	Mode rate	Present	No	Yes	Uterus	STUMP	Isterectomy		95	Unknown	Free from disease after 95 months		
	2020			42			Unknown	Unknown	Unknown	Menorrhagia				Unknown		5,5	IM	Isterectomy	LPT	No or in a bag	0-4	Mild	Present	No	No					91	No			
	2020			42			Unknown	Unknown	Unknown	Incidentally detected				Unknown		3,5	IM	Myomectomy	LPT	No or in a bag	0-4	Mild	Present	No	No					36	Unknown			
	2020			50			Unknown	Unknown	Unknown	Menorrhagia				Unknown		8,0	IM	TAH + BSO	LPT	No or in a bag	0-4	Mild	Present	No	No					76	No			
	2020			44			Unknown	Unknown	Unknown	AUB				Unknown		11,0	IM	Isterectomy	LPT	No or in a bag	0-4	None	Present	No	No					75	No			
	2020			50			Unknown	Unknown	Unknown	AUB				Unknown		11,0	IM	Myomectomy	LPT	No or in a bag	5-9	Severe	Present	No	Yes	Uterus	STUMP	Isterectomy	68	No	Free from disease after 68 months			
	2020			34			Unknown	Unknown	Unknown	Compression of adjacent organs				Unknown		7,0	IM	Myomectomy	LPS	Yes	≥10	Mild	Present	No	No					88	Unknown			
	2020			47			Unknown	Unknown	Unknown	Incidentally detected				Unknown		8,0	SS	Isterectomy	LPT	No or in a bag	≥10	None	Present	No	No					85	No			
	2020			39			Unknown	No	Unknown	Abdominal/pelvic pain				Unknown		19,0	SS	Isterectomy	LPT	No or in a bag	5-9	None	Present	No	No					77	No			
	2020			23			Unknown	Unknown	Unknown	Menorrhagia				Unknown		9,0	IM	Myomectomy	LPT	No or in a bag	5-9	Severe	Present	No	Yes	Uterus	STUMP	Isterectomy	74	Unknown	Free from disease after 74 months			
	2020			44			Unknown	Unknown	Unknown	Incidentally detected				Unknown		5,3	IM	Isterectomy	LPT	No or in a bag	0-4	Severe	Absent	No	No					73	No			
	2020			38			Unknown	Unknown	Unknown	Menorrhagia				Unknown		8,0	IM	Myomectomy	LPS	Yes	5-9	Mild	Present	No	No					72	Unknown			
	2020			54			Unknown	Unknown	Unknown	Menorrhagia	Dysmenorrhea				Unknown		6,7	SM	TAH + BSO	LPT	No or in a bag	5-9	Mild	Present	No	No				70	No			
	2020			35			Unknown	Unknown	Unknown	Incidentally detected				Unknown		3,7	SS	Myomectomy	LPT	No or in a bag	5-9	Mode rate	Present	No	No					69	Unknown			
	2020			48			Unknown	Unknown	Unknown	Incidentally detected				Unknown		2,5	IM	Myomectomy	LPT	No or in a bag	5-9	Severe	Present	No	Yes	Uterus	STUMP	Isterectomy	68	Unknown	Free from disease after 68 months			
	2020			43			Unknown	Unknown	Unknown	Menorrhagia				Unknown		10,0	IM	Isterectomy	LPT	No or in a bag	0-4	Severe	Present	No	No					66	No			
	2020			35			Unknown	Unknown	Unknown	Incidentally detected				Unknown		7,5	SM	Myomectomy	LPT	No or in a bag	5-9	Mode rate	Present	No	No					67	Unknown			
	2020			45			Unknown	Unknown	Unknown	Menorrhagia				Unknown		6,4	SM	Isterectomy	LPS	Yes	0-4	Severe	Present	No	No					59	No			
	2020			47			Unknown	Unknown	Unknown	Incidentally detected				Unknown		14,0	IM	Myomectomy	LPS	Yes	5-9	None	Present	No	Yes	Uterus	STUMP	Isterectomy	58	Unknown	Free from disease after 58 months			
2020			43			Unknown	Unknown	Unknown	Incidentally detected				Unknown		8,5	SS	TAH + BSO	LPT	No or in a bag	5-9	Mode rate	Present	No	No					54	No				

	2020			61			Unknown	Unknown	Unknown	AUB				Unknown		2,5	IM	TAH + BSO	LPT	No or in a bag	0-4	Mode rate	Present	No	No				53	No	
	2020			49			Unknown	Unknown	Unknown	Menorrhagia				Unknown		5,3	IM	Isterectomy	LPS	Yes	0-4	Mild	Present	No	No				49	No	
	2020			44			Unknown	Unknown	Unknown	Incidentally detected				Unknown		11,0	IM	Myomectomy	LPS	Yes	0-4	Severe	Present	No	Yes	Uterus	STUMP	Isterectomy	36	Unknown	Free from disease after 36 months
	2020			39			Unknown	Unknown	Unknown	Menorrhagia				Unknown		6,7	IM	Isterectomy	LPS	Yes	0-4	Severe	Absent	No	No				35	No	
	2020			42			Unknown	Unknown	Unknown	Abdominal/pelvic pain				Unknown		15,0	SS	Myomectomy	LPS	Yes	5-9	Severe	Present	No	No				13	Unknown	
Garcia-Sanchez JM et al. (33)	2019	1	Casereport	71			No	Unknown	Unknown	Incidentally detected				Unknown		16,0	Unknown	TAH + BSO	LPT	No or in a bag	5-9	Mode rate	Present	No	Yes	Other site	LMS	Mass excision		Unknown	Localization of recurrence: right lower limb
Karatasli V et al. (34)	2019	28	Caseries	53	6		Unknown	No	> 30			Pelvic masses		< 35		27,0	SS	TAH + BSO	LPT	No or in a bag	0-4	Mild	Present	No	No				44	Unknown	
	2019			58	6		Unknown	No	> 30	AUB				< 35		4,0	IM	TAH + BSO	LPT	No or in a bag	0-4	Mode rate	Absent	No	No				6	Yes	
	2019			46	2		Unknown	No	> 30	AUB				< 35		5,5	IM	TAH + BSO	LPS	Unknown	5-9	Mode rate	Absent	No	No				8	Unknown	
	2019			75	4		Unknown	No	> 30			Pelvic masses		> 35		12,0	SS	TAH + BSO	LPT	No or in a bag	0-4	Mode rate	Absent	No	No				12	Unknown	
	2019			40	1		Unknown	No	< 30			Pelvic masses		< 35		16,0	SM	Isterectomy	LPT	No or in a bag	0-4	Mild	Absent	No	No				12	Unknown	
	2019			35	2		Unknown	No	< 30	AUB				< 35		5,0	IM	Myomectomy	Unknown	Unknown	0-4	Mild	Absent	No	No				14	Unknown	
	2019			43	2		Unknown	No	< 30			Pelvic masses		< 35		11,0	SS	Myomectomy	Unknown	Unknown	0-4	Mild	Present	TAH + BSO	No				17	Unknown	
	2019			50	3		Unknown	No	< 30	AUB				< 35		8,0	SS	TAH + BSO	LPT	No or in a bag	0-4	Mild	Absent	No	No				18	Unknown	
	2019			40	0		Unknown	Unknown	< 30			Pelvic masses		> 35		12,0	IM	Isterectomy	LPT	No or in a bag	5-9	Mode rate	Absent	No	No				48	Yes	
	2019			52	2		Unknown	No	< 30			Pelvic masses		< 35		9,0	IM	TAH + BSO	LPS	Unknown	0-4	Mild	Absent	No	No				61	Unknown	
	2019			42	2		Unknown	No	> 30	AUB				< 35		8,5	IM	Myomectomy	Unknown	Unknown	0-4	Mild	Absent	TAH + BSO	No				47	Unknown	
	2019			43	2		Unknown	No	< 30	AUB				< 35		7,0	IM	Isterectomy	LPT	No or in a bag	5-9	Mild	Absent	No	No				24	Unknown	
	2019			54	3		Unknown	No	> 30	AUB				< 35		8,0	IM	TAH + BSO	LPT	No or in a bag	0-4	Mode rate	Present	No	Yes	Pelvis	LMS		62	Unknown	Died of disease (lyposarcoma) after 62 months
	2019			29	1		Unknown	No	< 30	Incidentally detected				< 35		10,0	IM	Myomectomy	Unknown	Unknown	0-4	Mild	Present	No	No				39	Unknown	
	2019			48	2		Unknown	No	< 30			Pelvic masses		< 35		6,0	IM	TAH + BSO	LPT	No or in a bag	0-4	Mode rate	Absent	No	No				6	Unknown	

	2019			41	2		Unknown n	No	> 30	AUB				< 35		2,0	IM	Isterecto my	LPS	Unknown n	5-9	Mild	Abse nt	No	No					48	Unkno wn	
	2019			39	2		Unknown n	No	< 30	AUB				< 35		6,0	IM	Myome ctomy	Unkn own	Unknown n	0-4	Mode rate	Abse nt	Isterect omy	No					52	Unkno wn	
	2019			42	2		Unknown n	No	< 30	AUB				< 35		7,5	IM	Isterecto my	LPT	No or in a bag	5-9	Mode rate	Abse nt	No	No					47	Unkno wn	
	2019			39	2		Unknown n	No	< 30	AUB				< 35		22,0	IM	Isterecto my	LPT	No or in a bag	5-9	Mode rate	Abse nt	No	No					56	Unkno wn	
	2019			45	3		Unknown n	No	> 30	AUB				< 35		5,0	IM	Isterecto my	LPS	No or in a bag	0-4	Mode rate	Abse nt	No	No					23	Unkno wn	
	2019			46	3		Unknown n	No	> 30	AUB				< 35		5,0	IM	TAH + BSO	LPT	No or in a bag	0-4	Sever e	Abse nt	No	No					31	Unkno wn	
	2019			34	1		Unknown n	No	< 30	AUB				< 35		5,0	IM	Myome ctomy	Unkn own	Unknown n	0-4	Sever e	Abse nt	No	No					44	Yes	
	2019			49	1		Unknown n	No	> 30	AUB				< 35		4,0	IM	TAH + BSO	LPS	Unknown n	5-9	Sever e	Abse nt	No	No					5	Unkno wn	
	2019			48	2		Unknown n	No	> 30	AUB				< 35		5,0	IM	TAH + BSO	LPT	No or in a bag	5-9	Mild	Abse nt	No	No					15	Unkno wn	
	2019			43	3		Unknown n	No	< 30			Pelv ic mas s		< 35		6,0	IM	Isterecto my	LPT	No or in a bag	5-9	None	Abse nt	No	No					163	Unkno wn	
	2019			43	2		Unknown n	No	> 30	AUB				< 35		6,5	IM	Isterecto my	LPT	No or in a bag	0-4	Mode rate	Abse nt	No	No					57	Unkno wn	
	2019			31	2		Unknown n	No	< 30			Pelv ic mas s		< 35		4,5	IM	TAH + BSO	LPT	No or in a bag	0-4	Mode rate	Abse nt	No	No					180	Unkno wn	
	2019			38	2		Unknown n	No	< 30	AUB				< 35		3,0	SS	Myome ctomy	Unkn own	Unknown n	0-4	Mode rate	Abse nt	TAH + BSO	No					131	Unkno wn	
Ha HI et al. (35)	2018	19	Cas e seri es	41	3		Unknown n	No	Unkn own	Incidentall y detected				Unkn own		7,0	Unkno wn	Isterecto my	LPT	No or in a bag	0-4	Mode rate	Abse nt	No	No						Unkno wn	
	2018			30	0		Unknown n	No	Unkn own	Incidentall y detected				Unkn own		8,0	Unkno wn	Myome ctomy	Unkn own	Unknown n	0-4	Mild	Abse nt	No	No						Unkno wn	
	2018			47	2		Unknown n	No	Unkn own	Incidentall y detected				Unkn own		9,0	Unkno wn	TAH + BSO	LPT	No or in a bag	0-4	Mode rate	Abse nt	No	No						Unkno wn	
	2018			48	3		Unknown n	Unkn own	Unkn own	Incidentall y detected				Unkn own		12,0	Unkno wn	Isterecto my	LPT	No or in a bag	5-9	Mild	Abse nt	No	No						Unkno wn	
	2018			40	2		Unknown n	Unkn own	Unkn own	Incidentall y detected				Unkn own		12,0	Unkno wn	Isterecto my	LPT	No or in a bag	≥10	Mild	Abse nt	No	No						Unkno wn	
	2018			49	2		Unknown n	Unkn own	Unkn own	Incidentall y detected				Unkn own		4,0	Unkno wn	Isterecto my	Unkn own	Unknown n	5-9	Mild	Abse nt	No	No						Unkno wn	
	2018			48	3		Unknown n	Unkn own	Unkn own	Incidentall y detected				Unkn own		9,5	Unkno wn	Myome ctomy	Unkn own	Unknown n	0-4	Mild	Abse nt	No	No						Unkno wn	
	2018			49	2		Unknown n	Unkn own	Unkn own	Incidentall y detected				Unkn own		12,0	Unkno wn	Myome ctomy	Unkn own	Unknown n	5-9	Mild	Presen t	TAH + BSO	No					Unkno wn		
	2018			30	0		Unknown n	Unkn own	Unkn own	Incidentall y detected				Unkn own		8,0	Unkno wn	Myome ctomy	Unkn own	Unknown n	5-9	Mode rate	Abse nt	No	No						Unkno wn	
	2018			46	1		Unknown n	Unkn own	Unkn own	Incidentall y detected				Unkn own		10,0	Unkno wn	Isterecto my	LPT	No or in a bag	≥10	Mild	Abse nt	No	No						Unkno wn	
	2018			39	1		Unknown n	Unkn own	Unkn own	Incidentall y detected				Unkn own		10,0	Unkno wn	Myome ctomy	Unkn own	Unknown n	0-4	Mode rate	Presen t	No	Yes	Pelvis	STUM P	Mass excision			Unkno wn	
	2018			49	1		Unknown n	Unkn own	Unkn own	Incidentall y detected				Unkn own		7,0	Unkno wn	Isterecto my	LPT	No or in a bag	0-4	Mode rate	Abse nt	No	No						Unkno wn	
	2018			40	2		Unknown n	Unkn own	Unkn own	Incidentall y detected				Unkn own		13,0	Unkno wn	Myome ctomy	Unkn own	Unknown n	≥10	Mild	Abse nt	Isterect omy	No						Unkno wn	
	2018			32	1		Unknown n	Unkn own	Unkn own	Incidentall y detected				Unkn own		6,0	Unkno wn	Myome ctomy	Unkn own	Unknown n	5-9	Mode rate	Abse nt	No	No						Unkno wn	

	2018			33	0		Unknown	Unknown	Unknown	Incidental				Unknown		6,0	Unknown	Myomectomy	Unknown	Unknown	5-9	Mode rate	Absent	No	No					Yes	
	2018			45	1		Unknown	Unknown	Unknown	Incidental				Unknown		10,0	Unknown	Isterectomy	LPT	No or in a bag	5-9	Mode rate	Absent	No	No					Unknown	
	2018			49	2		Unknown	Unknown	Unknown	Incidental				Unknown		6,0	Unknown	Isterectomy	LPS	Unknown	0-4	Mild	Absent	No	Yes	Pelvis	LMS	Mass excision	24	Unknown	
	2018			35	0		Myomectomy	Unknown	Unknown	Incidental				Unknown		7,0	Unknown	Myomectomy	Unknown	Unknown	0-4	Mild	Absent	No	No					Unknown	
	2018			28	0		Unknown	Unknown	Unknown	Incidental				Unknown		26,0	Unknown	Myomectomy	Unknown	Unknown	5-9	Mild	Absent	No	No					Unknown	
Huges L et al. (36)	2018	1	Case report	20	0		No	No	Unknown	Menorrhagia	Abdominal /pelvic pain	Pelvic masses	Anemia	Unknown	Subserosal fibroids at hte fundus of the uterus measuring 20 x 18 cm	20,0	SS	Myomectomy	LPT	No or in a bag	5-9	Mode rate	Absent	No	No					Unknown	
Oda H et al. (37)	2018	1	Case report	40			Unknown	Unknown	Unknown	Abdominal /pelvic pain		Anemia		> 35	Peritoneal bleeding	22,0	Unknown	Myomectomy	LPT	No or in a bag	5-9	Mild	Absent	No	Yes	Pelvis	LMS	Debulking + CTx	40	Unknown	Died of desease 40 months after initial surgery
	2018	21	Case series	28			Unknown	Unknown	Unknown	Incidental				Unknown		15,0	Unknown	Myomectomy	LPT	No or in a bag	5-9	Mode rate	Absent	No	No				33	Unknown	
	2018			63			Unknown	Unknown	Unknown	Incidental				Unknown		2,5	Unknown	TAH + BSO	LPT	No or in a bag	0-4	Severe	Absent	No	No				78	Unknown	
	2018			42			Unknown	Unknown	Unknown	Incidental				Unknown		5,5	Unknown	TAH + BSO	LPT	No or in a bag	0-4	Mild	Present	No	No				8	Unknown	
	2018			64			Unknown	Unknown	Unknown	Incidental				Unknown		18,0	Unknown	TAH + BSO	LPT	No or in a bag	0-4	None	Present	No	No				22	Unknown	Non disease-related death
	2018			48			Unknown	Unknown	Unknown	Incidental				Unknown		8,0	Unknown	TAH + BSO	LPT	No or in a bag	0-4	Mild	Present	No	No				56	Unknown	
	2018			52			Unknown	Unknown	Unknown	Incidental				Unknown		8,0	Unknown	TAH + BSO	LPT	No or in a bag	5-9	Mild	Present	No	No				99	Unknown	
	2018			47			Unknown	Unknown	Unknown	Incidental				Unknown		4,0	Unknown	TAH + BSO	LPT	No or in a bag	0-4	None	Present	No	No				132	Unknown	
Basaran D et al. (38)	2018			37			Unknown	Unknown	Unknown	Incidental				Unknown		1,8	Unknown	Isterectomy	LPT	No or in a bag	0-4	Mild	Present	No	No				39	Unknown	
	2018			40			Unknown	Unknown	Unknown	Incidental				Unknown		4,0	Unknown	Isterectomy	LPT	No or in a bag	0-4	Mode rate	Present	No	No				68	Unknown	
	2018			39			Unknown	Unknown	Unknown	Incidental				Unknown		5,5	Unknown	Myomectomy	LPT	No or in a bag	0-4	None	Present	No	No				10	Unknown	
	2018			37			Unknown	Unknown	Unknown	Incidental				Unknown		11,0	Unknown	Myomectomy	LPT	No or in a bag	0-4	Mode rate	Present	No	No				12	Unknown	
	2018			20			Unknown	Unknown	Unknown	Incidental				Unknown		15,0	Unknown	Myomectomy	LPT	No or in a bag	0-4	None	Present	No	No				52	Unknown	
	2018			28			Unknown	Unknown	Unknown	Incidental				Unknown		9,0	Unknown	Myomectomy	LPT	No or in a bag	0-4	None	Present	No	No				88	Unknown	
	2018			51			Unknown	Unknown	Unknown	Incidental				Unknown		20,0	Unknown	Isterectomy	LPT	No or in a bag	0-4	None	Present	No	No				18	Unknown	
	2018			44			Unknown	Unknown	Unknown	Incidental				Unknown		9,0	Unknown	Isterectomy	LPT	No or in a bag	0-4	None	Present	No	No				54	Unknown	
	2018			43			Unknown	Unknown	Unknown	Incidental				Unknown		6,5	Unknown	Isterectomy	LPT	No or in a bag	0-4	None	Present	No	No				56	Unknown	

	2018			51			Unknown	Unknown	Unknown	Incidentally detected				Unknown		7,0	Unknown	TAH + BSO	LPT	No or in a bag	0-4	Mode rate	Absent	No	No				74	Unknown	
	2018			52			Unknown	Unknown	Unknown	Incidentally detected				Unknown			Unknown	TAH + BSO	LPT	No or in a bag	0-4	Mild	Present	No	Yes	Pelvis	LMS	Mass excision	95	Unknown	Died of disease after 95 months
	2018			51			Unknown	Unknown	Unknown	Incidentally detected				Unknown		9,0	Unknown	TAH + BSO	LPT	No or in a bag	0-4	Mild	Present	No	Yes	Pelvis	LMS	Mass excision	69	Unknown	Free from disease after 154 months
	2018			28			Unknown	Unknown	Unknown	Incidentally detected				Unknown		9,0	Unknown	Myomectomy	LPT	No or in a bag	0-4	None	Present	No	Yes	Uterus	STUMP	Myomectomy	154	Unknown	Free from disease after 45 months
	2018			38			Unknown	Unknown	Unknown	Incidentally detected				Unknown			Unknown	Myomectomy	LPT	No or in a bag	0-4	None	Present	No	Yes	Uterus	LMS	TAH + BSO	45	Unknown	Free from disease after 69 months
Bacanagli BH et al. (39)	2017	6	Cas e series	48	5		Unknown	No	Unknown	Menorrhagia		Pelvic masses		Unknown	Well-defined heterogeneous mass	3,5	IM	TAH + BSO	LPT	No or in a bag	0-4	Mild	Present	No	No				120	Unknown	
	2017			44	6		Unknown	No	Unknown	Menorrhagia				Unknown	Well-defined heterogeneous mass	8,0	SM	TAH + BSO	LPT	No or in a bag	≥10	Mode rate	Present	No	No				119	Unknown	
	2017			40	2		Unknown	No	Unknown	Menorrhagia				Unknown	Well-defined hypercholeic mass	7,0	IM	Myomectomy	Unknown	Unknown	5-9	Mode rate	Absent	No	No					Unknown	
	2017			43	4		Unknown	No	Unknown	Menorrhagia				Unknown	Well-defined hypercholeic mass	20,0	IM	TAH + BSO	LPT	No or in a bag	5-9	Mode rate	Absent	No	No				38	Unknown	
	2017			52	4		Unknown	No	Unknown	Menorrhagia				Unknown	Well-defined hypercholeic mass	10,0	IM	TAH + BSO	LPT	No or in a bag	5-9	Mild	Absent	No	No				29	Unknown	
	2017			24	0		Unknown	Unknown	Unknown	Menorrhagia				Unknown	Well-defined hypercholeic mass	8,0	IM	Myomectomy	Unknown	Unknown	5-9	Mode rate	Absent	No	Yes	Unknown	STUMP	Myomectomy	11	Unknown	
Bogani G et al. (40)	2016	1	Cas e report	37	2		Unknown	No	Unknown	Menorrhagia				Unknown		13,0	SS	Myomectomy	LPS	Yes	Unknown	Unknown	Unknown	TAH + BSO	Yes	Abdomen	STUMP	Mass excision		Unknown	
Sakuragay Y et al. (41)	2016	1	Cas e report	68			Unknown	Unknown	Unknown	Incidentally detected				Unknown			Unknown	Isterectomy	Unknown	Unknown	5-9	Unknown	Unknown	No	Yes	Lung	STUMP	Mass excision	2	Unknown	recurrence sites: lung and scalp skin
Kalogiannidis I et al. (42)	2016	5	Cas e series	46			Unknown	Unknown	Unknown	Menorrhagia				Unknown		6,0	Unknown	TAH + BSO	LPT	No or in a bag	0-4	Severe	Absent	No	No				132	Unknown	
	2016			43			Unknown	Unknown	Unknown	Menorrhagia				Unknown		5,0	Unknown	Isterectomy	LPT	No or in a bag	0-4	Severe	Absent	No	No				108	Unknown	
	2016			42			Unknown	Unknown	Unknown	Menorrhagia				Unknown		4,0	Unknown	Isterectomy	LPT	No or in a bag	0-4	Severe	Absent	No	No				72	Unknown	
	2016			43			Unknown	Unknown	Unknown	Incidentally detected				Unknown		4,0	Unknown	Myomectomy	LPS	Unknown	5-9	Severe	Absent	No	No				28	Unknown	
	2016			26			Unknown	Unknown	Unknown	Incidentally detected				Unknown		6,5	Unknown	Myomectomy	LPT	No or in a bag	0-4	Severe	Absent	No	No				15	Unknown	

Campbell JE et al. (43)	2015	1	Casereport	41	4	1	Unknown	No	Unknown	Menorrhagia	Abdominal/pelvic pain			Unknown		10,0	IM	Myomectomy	LPT	No or in a bag	5-9	Mild	Present	Isterectomy	No					48	Yes	
Mowers EL et al. (44)	2015	5	Caseries	38			Unknown	Unknown	Unknown	Incidentally detected				Unknown			Unknown	TAH + BSO	LPS	No or in a bag	Unknown	Unknown	Unknown	No	Yes	Pelvis	STUMP	Mass excision	3	Unknown		
	2015			40			Unknown	Unknown	Unknown	Incidentally detected				Unknown			Unknown	Isterectomy	LPS	Yes	Unknown	Unknown	Unknown	No	Yes	Abdomen	STUMP	Mass excision	24	Unknown		
	2015			50			Unknown	Unknown	Unknown	Incidentally detected				Unknown			Unknown	TAH + BSO	LPS	Yes	Unknown	Unknown	Unknown	No	Yes	Abdomen	STUMP	Mass excision	35	Unknown		
	2015			47			Unknown	Unknown	Unknown	Incidentally detected				Unknown			Unknown	Isterectomy	LPS	Yes	Unknown	Unknown	Unknown	No	Yes	Pelvis	STUMP	Mass excision	28	Unknown		
	2015			50			Unknown	Unknown	Unknown	Incidentally detected				Unknown			Unknown	Myomectomy	LPT	Yes	Unknown	Unknown	Unknown	No	Yes	Pelvis	STUMP	TAH + BSO	32	Unknown		
Zhang R et al. (45)	2015	1	Casereport	42			Unknown	Unknown	Unknown	Incidentally detected				Unknown			Unknown	TAH + BSO	LPT	No or in a bag	0-4	Severe	Absent	Unknown	No						Unknown	sign: fever
Dall'Asta A et al. (46)	2014	5	Caseries	44	0		Unknown	Unknown	Unknown	AUB	Abdominal/pelvic pain	Anemia		Unknown		12,0	Unknown	Isterectomy	LPT	No or in a bag	Unknown	Severe	Unknown	No	No					81	Unknown	
	2014			51	2	2	Unknown	No	Unknown			Pelvic masses		< 35		12,0	Unknown	TAH + BSO	LPT	No or in a bag	Unknown	Severe	Present	No	No					78	Unknown	
	2014			49	1		No	No	Unknown	AUB				Unknown		2,5	Unknown	TAH + BSO	LPT	No or in a bag	Unknown	Severe	Absent	No	No					33	Unknown	
	2014			45	0		Unknown	Unknown	Unknown	Incidentally detected				Unknown		14,0	Unknown	Myomectomy	LPT	No or in a bag	0-4	Severe	Absent	No	No					19	Unknown	
	2014			48	2		No	No	Unknown	AUB				Unknown			IM	Myomectomy	LPS	Unknown	0-4	Mild	Absent	TAH + BSO	No					3	Unknown	
Kotsopoulos IC et al. (47)	2012	1	Casereport	51	0		D&C	Unknown	Unknown	Menorrhagia				Unknown		5,0	IM	Isterectomy	LPT	No or in a bag	0-4	Moderate	Absent	No	Yes	Lung	STUMP			11	Unknown	Died of disease
Seidman MA et al. (7)	2012	3	Caseries	24			Unknown	Unknown	Unknown			Pelvic masses		Unknown		6,6	Unknown	Myomectomy	LPS	Yes	Unknown	Unknown	Unknown	No	Yes	Unknown	STUMP			12	Unknown	
	2012			41			Unknown	Unknown	Unknown			Pelvic masses		Unknown		10,0	Unknown	Myomectomy	LPS	Yes	Unknown	Unknown	Unknown	No	Yes	Unknown	STUMP			13	Unknown	
	2012			45			Unknown	Unknown	Unknown			Pelvic masses		Unknown		8,7	Unknown	Isterectomy	LPS	Yes	Unknown	Unknown	Unknown	No	Yes	Unknown	STUMP			28	No	
Hsieh J et al. (48)	2012	1	Casereport	37	0	0	No	No	Unknown	Compression of adjacent organs		Pelvic masses		Unknown	MR: characterized a 4.6×4.2×4.0 cm mass located within the anterior vaginal wall with mild homogeneous enhancement	4,6	Unknown	Myomectomy	LPT	No or in a bag	0-4	Moderate	Absent	Unknown	No						Unknown	
Vilos AG et al. (49)	2012	2	Casereport	35	1	0	No	No	< 30	AUB		Pelvic		Unknown	Multiple myomas, with	9,8	IM	Myomectomy	LPT	No or in a bag	5-9	Severe	Absent	Isterectomy	No					60	Unknown	

			series								mass			the largest located posteriorly and measuring 9.7x9.8x8.8 cm, and another that measured 3.6x2.3x2.3 cm																		
	2012			39	0	0	No	Yes	< 30	Abdominal /pelvic pain		Pelvic mass	Unknown	Multiple uterine myomas, with the 2 largest measuring 8.6x7.4x7.2 cm and 6.0x6.0x5.3 cm		IM-SS	Myomectomy	LPT	No or in a bag	0-4	Mild	Present	Isterectomy	No					40	Unknown		
Canciani GN et al. (50)	2012	1	Casereport	48			No	Unknown	Unknown	Compression of adjacent organs		Pelvic mass	Unknown			Unknown	Isterectomy	LPT	No or in a bag	0-4	Mild	Absent	No	Yes	Pelvis	STUMP	Mass excision	288	No			
Hong IH et al. (51)	2011	1	Casereport	49			Unknown	Unknown	Unknown	Abdominal /pelvic pain		Pelvic mass	Unknown	CT showed a 10x17x19 cm mass at the posterior side of the uterus	17,0	SS	TAH + BSO	LPT	No or in a bag	5-9	Moderate	Absent	Unknown	No						No		
Müller Vranjes A et al. (52)	2011	1	Casereport	37			Unknown	Unknown	Unknown	Abdominal /pelvic pain		Pelvic mass	Unknown		20,0	Unknown	Myomectomy	LPT	No or in a bag	Unknown	Unknown	Unknown	Isterectomy	No						Unknown		
Gezginc K et al. (53)	2011	1	Casereport	42	0		No	No	Unknown	Menorrhagia	Dysmenorrhea	Pelvic mass	< 35	9x7 cm heterogeneous mass in the uterus cavity	9,0	SM	TAH + BSO	LPT	No or in a bag	0-4	Mild	Present	No	No					24	No		
Yoon BS et al. (54)	2011	1	Casereport	28	0	0	No	No	Unknown	Menorrhagia		Pelvic mass	Unknown	Multiple intramural leiomyomata, including 3 measuring 8,0x7.5 cm, 6.8x5.1 cm, and 6.0x5.8 cm.	8,0	IM	Myomectomy	LPT	No or in a bag	5-9	Severe	Absent	No	Yes	Uterus	LMS	Isterectomy	36	No	Alive after 36 months of follow up		
IP PP et al. (55)	2009	16	Caseries	50			Unknown	Unknown	Unknown	AUB			Unknown		4,0	IM	TAH + BSO	Unknown	Unknown	0-4	Moderate	Present	No	Yes	Pelvis	LMS	Mass excision	51	No	Alive 74 months afet mass excision		

	20 09			52			Unknow n	Unkn own	Unkn own	AUB		Ane mia		Unkn own		7,5	IM	TAH + BSO	Unkn own	Unknow n	0-4	Mode rate	Abse nt	No	No					No	
	20 09			39			Unknow n	Unkn own	Unkn own	AUB		Pelv ic mas s		Unkn own		5,8	IM	Isterecto my	Unkn own	Unknow n	5-9	Mode rate	Prese nt	No	Yes	Pelvis	LMS	Debulki ng + CTx	15	No	Alive 40 months after Debulki ng
	20 09			39			Unknow n	Unkn own	Unkn own	AUB				Unkn own		5,0	SM	TAH + BSO	Unkn own	Unknow n	5-9	Mild	Prese nt	No	No					No	
	20 09			56			Unknow n	Unkn own	Unkn own			Pelv ic mas s		Unkn own		10,0	IM	TAH + BSO	Unkn own	Unknow n	0-4	Mode rate	Prese nt	No	No					No	
	20 09			64			Unknow n	Unkn own	Unkn own			Pelv ic mas s		Unkn own		6,0	IM	TAH + BSO	Unkn own	Unknow n	0-4	Mode rate	Prese nt	No	No					No	
	20 09			46			Unknow n	Unkn own	Unkn own	AUB				Unkn own		12,0	SM	TAH + BSO	Unkn own	Unknow n	0-4	Sever e	Prese nt	No	No					No	
	20 09			50			Unknow n	Unkn own	Unkn own	AUB		Ane mia		Unkn own		0,7	IM	Myome ctomy	Unkn own	Unknow n	0-4	Sever e	Prese nt	Isterect omy	No					No	
	20 09			48			Unknow n	Unkn own	Unkn own			Pelv ic mas s		Unkn own		17,0	IM	TAH + BSO	Unkn own	Unknow n	5-9	Sever e	Prese nt	No	No					No	
	20 09			40			Unknow n	Unkn own	Unkn own			Pelv ic mas s		Unkn own		8,5	IM	TAH + BSO	Unkn own	Unknow n	5-9	Sever e	Prese nt	No	No					No	
	20 09			59			Unknow n	Unkn own	Unkn own	AUB				Unkn own		18,0	IM	TAH + BSO	Unkn own	Unknow n	0-4	Sever e	Prese nt	No	No					No	
	20 09			25			Unknow n	Unkn own	Unkn own			Pelv ic mas s		Unkn own		16,0	IM	TAH + BSO	Unkn own	Unknow n	5-9	None	Prese nt	No	No					No	
	20 09			49			Unknow n	Unkn own	Unkn own			Pelv ic mas s		Unkn own		11,0	IM	TAH + BSO	Unkn own	Unknow n	5-9	None	Prese nt	No	No					No	
	20 09			46			Unknow n	Unkn own	Unkn own	AUB				Unkn own		5,0	SS	Myome ctomy	Unkn own	Unknow n	5-9	Sever e	Prese nt	No	No					Unkno wn	
	20 09			50			Unknow n	Unkn own	Unkn own	AUB				Unkn own			SM	TAH + BSO	Unkn own	Unknow n	0-4	Sever e	Abse nt	No	No					No	
	20 09			44			Unknow n	Unkn own	Unkn own	AUB		Ane mia		Unkn own		5,0	SM	Myome ctomy	Unkn own	Unknow n	≥10	Sever e	Prese nt	Isterect omy	No					No	
Berretta R et al. (56)	20 08	3	Cas e series	44	2	0	No	No	Unkn own	Compressi on of adjacent organs		Pelv ic mas s		Unkn own	Multiple intramur al leiomyo mas and one 8x3x8 cm subserou s anterior myoma.	8,0	SS	Isterecto my	LPT	No or in a bag	0-4	Mild	Prese nt	No	No				60	No	
	20 08			35	0	1	No	No	Unkn own	Compressi on of adjacent organs		Pelv ic mas s		Unkn own	Subseros al, peduncu lated myoma	16,0	SS	Myome ctomy	LPT	No or in a bag	≥10	Mild	Abse nt	No	No				12	No	
	20 08			37	2	0	No	No	Unkn own	AUB				Unkn own	Leiomyo ma measuri ng 8x3x7 cm	10,0	IM	Isterecto my	LPT	No or in a bag	5-9	Sever e	Abse nt	No	Yes	Lung	STUM P	Mass excision	60	No	
Huang SE et al. (57)	20 08	1	Cas e	47	2	0	No	No	Unkn own	Compressi on of		Pelv ic		> 35		20,0	SS	TAH + BSO	LPT	No or in a bag	5-9	Sever e	Abse nt	No	No				24	No	

			rep ort				No	No		adjacent organs		mas s																					
Amant F et al. (58)	20 05	1	Cas e rep ort	48	2	0	No	No	Unkn own	AUB				Unkn own		7,0	SS	TAH + BSO	LPT	No or in a bag	0-4	None	Prese nt	No	Yes	Pelvis	LMS	Mass excision	48	No			
Shapiro A et al. (59)	20 04	1	Cas e rep ort	46	8	0	No	No	Unkn own	Menorrhag ia		Anem ia		Unkn own	Single, submuc us leiomy oma measuri ng 3,5x4x4, 5 cm	4,0	SM	TAH + BSO	Unkn own	Unknow n	≥10	Sever e	Abse nt	No	Yes	Other site	LMS	Mass excision	51	No		51 months after isterecto my: fracture of the right humerus (LMS) - -> Mass excision. 12 months later: lung nodules (metasta sis from LMS)	

Abbreviations: CS: cesarean section; BMI: body mass index (kg/m²); AUB: abnormal uterine bleeding; US: ultrasounds; MRI: magnetic resonance; CT: computed tomography; IM: intramural; SS: subserosal; SM: submucosal; TAH: total abdominal hysterectomy; BSO: bilateral salpingo-oophorectomy; D&C: dilation&curettage; LPS: laparoscopy; LPT: laparotomy; HSC: hysteroscopy; LMS: leiomyosarcoma; LM: leiomyoma; CTx: chemotherapy.