

SUPPLEMENTARY INFORMATION

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Supplementary Table S.1. Demographic, clinic and surgical data on 15 cases of cervical intracapsular myomectomy via vagina													
Case	Age	BMI	Parity	Type of delivery	Fibroids related symptoms	Fibroid's number	Fibroid's size, cm	Fibroids' location	Estimated blood loss, ml	Operative time, min	Hb before operation	Recovery course	Hb at dismissal (g/dl)
1	40	24,8	G1P1	Cesarean section	Dyspareunia, Pelvic Pain	1	7,5	ECL	50	25	12,5	Regular	11,2
2	34	26	G2P1	Vaginal delivery	Vaginal Discharge, Lower Back Pain	1	8	ECA	85	45	13,2	Regular	10,4
3	39	32,1	G1P0	Abortion	Dysmenorrhea, Pelvic Pain	2	4-6	TCL, ECP	70	50	11,5	Anemia	10,1
4	36	22,3	G0P0	-	Vaginal Discharge, Dyschezia	1	7,5	ECL	65	30	12,7	Regular	12,8
5	41	28	G3P1	Cesarean section	Vaginal Discharge, Dyspareunia	1	8,5	ECP	75	45	13,4	Regular	11,2
6	32	24,8	G1P1	Vaginal delivery	Dyspareunia, Dysmenorrhea	1	9	ECA	85	50	11,9	Anemia	10,3
7	35	26,5	G1P1	Vaginal delivery	Dyspareunia, Abnormal Uterine Bleeding	1	8,5	ECL	70	45	12,4	Regular	11,6
8	38	25,2	G1P0	Abortion	Vaginal Discharge, Dyspareunia,	1	6,5	TCL	55	20	10,8	Anemia	9,7
9	42	29,2	G3P2	Vaginal delivery	Abnormal Uterine Bleeding, Dyspareunia,	2	4-7	TCP, ECA	85	40	12,9	Regular	11,2
10	35	26,9	G0P0	-	Pelvic Pain, Lower	1	6.5	ECA	50	30	10,2	Anemia	8,9

					abdominal Pain								
11	31	24	G0P0	-	Vaginal Discharge, Dyschezia	1	8,5	ECP	75	50	14.1	Regular	12.7
12	34	28,1	G1P1	Vaginal delivery	Dysmenorrhea, Pelvic Pain	1	8	ECL	85	50	11,9	Regular	10,5
13	37	27,2	G3P2	Vaginal delivery	Dyspareunia, Pelvic Pain	1	9	ECA	95	50	13,4	Regular	11,8
14	39	23,4	G2P2	Vaginal delivery	Vaginal Discharge, Pelvic Pain	2	5-8	ECA, ECL	75	45	12,7	Regular	11,6
15	44	25,1	G3P3	Vaginal delivery	Dyspareunia, Dysmenorrhea	2	4-6	ECL, ECL	60	40	10,4	Anemia	9,1
Notes: ECL - extracervical lateral; ECA - extracervical anterior; TCL - transcervical lateral, ECP - extracervical posterior; TCP - transcervical posterior;													

Supplementary Table S.2. Case reports study (CR#1). Cervical fibroids' characteristics, perioperative data and age of patients experienced vaginal myomectomy extracted from 23 cases (English language literature).

References	n	Age	Prot	In vag	Prol. Hang	Ant	Post	Lat	Cent	Fibroids' size		IOBL, ml	AdS	DD
										a	b			
Almajed et al, 2019	1	40	1	1			1			10	7			
Baum & Narinedhat, 2009	2	32	1	1	1	1				6	4		HS	
Cissé et al, 2008	3	43	1	1	1					8,1	6			
Garg, 2012	4	20	1	1		1				7	6			
Garg, 2012	5	25	1	1				1		9	7			
Gupta et al, 2018	6	45	1		1	1	1			5	5			
Hardon, 1885	7	25	1	1		1				6	5			
Ikechebelu et al, 2012	8	37	1	1	1				1	22,4	20,5	100		8
Jaouad et al, 2015	9	38			1				1	20	17			3
Kanash et al, 2016	10	38	1	1	1					25	20			
Kaur et al, 2016	11	35	1	1	1		1			8,6	6,2		HS	4
Khan & Seraphim, 2011	12	47	1	1	1					11,9	6,2		HS	
Lasmar et al, 2013	13	46								2,5	1		HS	1
Majumdar & Gill, 2012	14	17		1						2,5	2,5			
Mishra et al, 2016	15	45	1	1	1	1				16	14	30		
Nanda et al, 1998	16	50	1	1	1					20	15			
Patient et al, 1996	17	23				1				3	2		HS-Laser	
Prasanthi, 2020	18	34	1	1			1			10	10	50	LS-Ass	2
Rajshree cet al, 2017	19	21	1	1		1				5,2	6			
Rajshree cet al, 2017	20	37	1	1		1				5	5			
Reza et al., 2022	21	47	1	1	1					20	8	250		
Rezai et al., 2017	22	29								6	4			
Taingson et al, 2016	23	31	1	1	1			1		13	12	250		4
Torpin et al, 1939	24	29	1	1	1		1			15	12			
Wang et al, 2022	25	25	1	1	1					8,6	6,2		HS	

Notes: Prot - protruded; In vag - in vagina; Prol - prolapsed; Hang - hanging; ; Ant - anterior; Post - posterior; Lat - lateral; Cent - central; IOBL - intraoperative blood loss; AdS - additional surgery; HS - hysteroscopy; LS-laser surgery; LS-Ass - laparoscopic assistance; DD - discharge day.

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Supplementary Table S.3. Case reports study (CR#2). Cervical fibroids' characteristics, perioperative data and age of obstetric patients experienced vaginal myomectomy extracted from 13 cases (English language literature).

References	n	Age	Pregnancy weeks	Prot.	InVag	Prol. Hang.	Ant	Post	Lat	Cent	Fibroids' size		IOBL, ml	DD
											a	b		
Abitbol & Madison, 1958	1	34	PP-CS					1			7			
Aiyer, 1926	2		Adv.Preg.	1							10			
Gonzalez et al, 2020	3	33	13	1	1			1			5			1
Kamra et al., 2013	4	28	35	1			1				5,5	4		
Keriakos & Maher, 2013	5	29	PP-CS					1			12,9	9,5		
Kilpatrick et al., 2010	6	32	15						1		4	3		
Nichols & Hayes, 1953	7	20	PP-VD					1			10			
Obara et al., 2014	8	31	13	1	1			1			6,20	4,30	145	12
Scot & Spence, 1951	9	20	18				1				5			
Sengupta et al, 2006	10	29	PP-CS	1	1	1	1			1	12	14	600	
Straub et al, 2010	11		18					1			4	3	50	
Tigdi & Chan, 2019	12	28	18	1	1						6	5		
Zhang et al., 2018	13	22	PP-CS			1	1		1		38	6		3

Notes: Prot - protruded; InVag - in vagina; Prol - prolapsed; Hang - hanging; Ant - anterior; Post - posterior; Lat - lateral; Cent - central; IOBL - intraoperative blood loss; AdS - additional surgery; PP-CS-postpartum Cesarean section; Adv.Preg. - advanced pregnancy; DD - discharge day.

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Supplementary Table S.4. Case reports study (CR#3). Cervical fibroids' characteristics, perioperative data and age of patients experienced laparoscopic myomectomy extracted from 8 cases (English language literature).

References	n	Age	NPS	Post.	Fibroids' size		VPI	TBOIIA	ST, min	IOBL, ml	DD
					a	b					
Garzon-Lopez et al., 2015	1	31	0		15		1		260		10
Giannella et al., 2016	2	18	1	1	7						3
McEntee & Dahlam, 2022	3	34	0		5					100	
Peker et al., 2017	4	40	1	1	14	10			140	300	1
Simon et al., 2021	5	30	1		12	8			170	150	1
Sleiman et al., 2023	6	28	1	1	14						
Takeda et al., 2009	7	33	1	1	6		1	1	130	70	10
Wehbe et al., 2016	8	20	1	1	5	5	1				2

Notes: NPS-nulliparous; Post - posterior; VPI - vasopressin injection; TBOIIA-temporary balloon occlusion of the bilateral internal iliac arteries; ST-surgery time; IOBL - intraoperative blood loss; DD - discharge day.

References of case reports' study CR#3

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Supplementary Table S.5. Case reports study (CR#4). Cervical fibroids' characteristics, perioperative data and age of patients experienced laparotomic myomectomy extracted from 22 cases (English language literature).

References	n	Age	NPS	Ant.	Post.	Lat.	Cent.	GnRHa	VPI	UAE	Fibroids' size		ST, min	IOBL, ml	DD
											a	b			
Abdelaziz et al., 2014	1	39	0		1						9				
AbuHasim et al., 2020	2	27	1	1				1			10,50	9	80	150	2
Akhan et al., 2022	3	40	0		1	1				1	11,50			520	4
Anant & Gupta, 2020	4	24	0		1				1		20	18			
Booher et al., 2018	5	33	0						1		4,50	6		50	1
Eigbefoh et al., 2008	6	34	1		1						14	12		200	7
Elegbua et al., 2023	7	24	1	1		1			1		7,86	7,09			6
Galidevara & Rajarajan, 2021	8	29	0				1		1		18	16			
Güzin et al., 2005	9	25	1	1							12,50	7			
Higuchi et al., 200	19	29	1		1			1	1		12		132	1800	4
Narmadha, 2014	10	35									13	11			
Noguchi et al., 2019	11	37	1								18				
Palve et al., 2017	12	47	1								13	20		300	
Peng et al., 2016	13	42	0								7,40	10			
Sharma et al., 2014	14	22	1	1							30	25			15
Shradha & Sahay, 2016	15	17	1	1							18	20			8
Wakode & Lodha, 2022	16	36	0								11	12			
Yalçinet al., 2016	17	30	1								5	6			
Yeoh et al., 2019	18	21	1								12			300	
Chaitra et al., 2017	20	32	0	1							6,50	5		400	5
Erian et al., 2004	21	25	0								10	10		2000	6
Gundabattula et al., 2020	22	21	0								13,5	12		2200	6

Notes: NPS-nulliparous; Ant.-anterior; Post.-posterior; Lat-lateral; Cent-central; VPI - vasopressin injection; TBOIIA-Temporary balloon occlusion of the bilateral internal iliac arteries; ST-surgery time; IOBL - intraoperative blood loss; DD - discharge day.

References of case reports' study CR#4

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Supplementary Table S.6. Perioperative results of cervical myomectomy depending on type of surgery from Chinese language literature.

TS	Variables (numbers, mean± SD)	References and study results															Total or summarize d mean±SD & p values
		Du & Wan g, 2007	He et al., 2011	Jiang . 2007	Ren et al., 2019	Song et al., 2012	Tie & Ge, 2017	Wan g et al., 2014	Wan g, 2018	Wei, 2016	Wei, 2020	Wu, 2019	Yi & Sun, 2018	Yin, 2016	Yu & Luo, 2016	Zhan g et al., 2017	
VME	n	-	-	8	-	6	14	36	37	34	65	-	-	50	4	28	282
	Age, mean± SD	-	-	43±1 1	-	33.5 (23- 48)	41.2± 2.6	34.2± 4.8	38.3± 5.1	36.6± 5.5	38.1± 4.1	-	-	36.2± 2.4		37.5± 8.1	37.59±2.36 (n=278) (p=NS)
	Nulliparous, mean± SD	-	-	-	-	-	-	11	-	-	-	-	-	-	-	NA	0.31±0.47 ^{NS} (n=11) (p=NS)
	Size, cm	-	-	<5	-	7.5±3 .5 (3-6 to 5- 15)	NA	4.9±2 .6	NA	6.5±1 .4	5.1±2 .0	-	-	3.9±0 .9	NA	6.2±1 .7	5.26±1.02 (n=194) (p<0.001)
	Surgery time, min	-	-	68	-	26.4	59.4± 7.4	78.4± 25.3	82.3± 19.3	83.4± 25.8	54.4± 9.9	-	-	72±2 2	67.3	45.6± 19.3	67,09±14,3 1
	Blood loss, ml	-	-	150	-	20	NA	116.4 ±40.5	111.9 ±23.6	96.9± 48.7	56.3± 6.3	-	-	376± 31	121	53.6± 18.8	139.51±11 6.92 (n=268) (p=0.0264)
	Blood loss prevention	-	-	NA	-	PTI	PTI	PTI	NA	NA	PTI	-	-	NA	PTI	NA	Yes: 5/10
	Discharge day	-	-	4,8 (n=8)		NA	4.5±0 .52	4.4±1 .2	4.06± 1.22	4.35± 1.45	5.2±1 .3	-	-	6.2±1 .2	NA	5.7±1 .3	5.02±0.75 (n=272) (p<0.001)

LSME	n	46	48	-	37	-	22	36	37	33	65	39	47	-	4	17	431
	Age	31.2±6.09 (21-42)	35.6±4.5	-	37.48±5.62	-	41.9±2.6	35.1±4.6	37.8±5.3	36.2±5.4	36.8±3.7	31.84±1.04	34.72±5.69	-	NA	35.8±2.3	35.56±2.55 (n=427) (p=0.0183)
	Nulliparous	17 (0.37±0.49)	12 (0.25±0.44)	-	-	-	-	8 (0.22±0.42) (n=NS)	-	-	-	NA	NA	-	NA	NA	0.28±0.45 (n=130) (n=NS)
	Size, cm	5.8±2.72 (3-15)	8.3±2.1	-	4.31±1.23	-	NA	5.2±2.4	NA	6.4±1.3	5.3±1.9	NA	>10 cm	-	NA	NA	6,53±1.87 (n=312) (p=0,049)
	Surgery time, min	75±45 (25-140)	91.8±38.5	-	59.1±19.6	-	63.1±10.7	99.5±45.5	97.6±15.6	85.2±24.6	73.7±16.2	58.13±4.04	62.37±20.54	-	96.7	62.0±27.1	73.77±13.73 (p<0,001)
	Blood loss, ml	45±30 (10-200)	185.5±88.5	-	70.19±63.42	-	NA	150.1±88.5	149.7±30.9	100.2±47.3	117.2±17.1	95.34±3.66	114±35	-	118	64.2±25.9	112.66±41.17 (n=409) (p<0,001)
	Blood loss prevention	PTI	PTI	-	PTI+VPI	-	PTI	PTI	NA	NA	PTI	NA	PTI	-	PTI	None	Yes: 8/12
	Discharge day	6.4±1.2	4.3±0.6		5.88±1.57	-	4.41±0.5	5.2±1.8	5.61±1.46	4.21±1.42	7.8±1.9	NA	NA	-	NA	5.2±1.1	5.7±1.25 (n=341) (p<0,001)

LTME	n	-	48	-	19	23	36	-	-	-	-	39	-	17	9	-	191
	Age, mean± SD	-	37.2± 5.8	-	35.74 ±5.99	33.5 (23-48)	41.1± 3.1	-	-	-	-	37.67 ±1.02	-	37.9± 2.8	NA	-	37,52±2.23 (n=182) (p=NS)
	Nulliparous, mean± SD	-	9	-	-	-	-	-	-	-	-	NA	-	-	NA	-	0.19±0.39 (n=48) (p=NS)
	Size, cm	-	7.8±2 .8	-	5.13± 2.16	-	-	-	-	-	-	NA	-	3.1±0 .9	NA	-	6.24±1.93 (n=84) (p=0,019)
	Surgery time, min	-	99.9± 46.6	-	48.1± 16.75	70.5	98.8± 11.3	-	-	-	-	72.21 ±6.06	-	70±2 9	78.6	-	81.6±17.27 (p<0,001)
	Blood loss, ml	-	193.8 ±109. 8	-	107.1 7± 96.65	100.0	-	-	-	-	-	126.5 7±5.3 8	-	418± 42	138	-	173,74±93. 44 (n=155) (p<0,001)
	Blood prevention	-	PTI	-	PTI+ VPI	PTI	OT	-	-	-	-	NA	-	NA	PTI	-	Yes: 4/6
	Discharge day		6.7±1 .3	-	7.8±1 .5	NA	8.92± 0.91	-	-	-	-	NA	-	11.3± 1.6	NA		8.19±1.57 (n=120) (p<0,001)

Notes: TS- type of surgery; VME - vaginal myomectomy; LSME - laparoscopic myomectomy; LTME - laparoscopic myomectomy; SD - standard deviation; VPI - vasopressin injection; PTI - pituitrin injection; OT- oxytocin injection; NA - no available.

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