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Title of Abstract	Laparoscopic nerve-sparing radical parametrectomy for deep lateral parametrial				
	endometriosis (LPE)				
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Aims and objectives	To demonstrate anatomical and technical highlights of nerve-sparing radical				
	parametrectomy for LPE.				
Settings and Design	An urban general hospital. LPE may involve the ureter, internal iliac vessels, inferior				
	hypogastric plexus, pelvic splanchnic nerves, and sometimes sacral nerve roots. Although				
	LPE is not overly rare, isolation of the autonomic nerves from LPE cannot always				
	guaranteed. In cases where endometriosis lesions are embedded in the deep parametrium				
	nerve-sparing techniques are no longer considered feasible, except in cases with unilateral				
	involvement. However, even one-sided radical parametrectomy may actually lead to pelvic				
	organ dysfunctions, which seriously affects quality of life.				
Materials, setting and	A 38-year-old woman, para 1, presented with a five-year history of severe chronic pelvic				
methods	and gluteal pain, all of which were resistant to pharmacotherapy. MRI revealed right				
	ovarian endometrioma with LPE reaching the lateral pelvic wall. We planned laparoscopic				
	nerve-sparing excision of LPE and decompression of somatic nerves with right salpingo-				
	oophorectomy. The procedure was performed using 8 steps, as follows: Step 1, adhesiolysis				
	and adnexal surgery; Step 2, complete ureterolysis; Step 3, identification and dissection of				
	the hypogastric nerve and inferior hypogastric plexus with development of the parare				
	space; Step 4, dissection of the internal iliac vessels; Step 5, identification and dissection of				
	the sacral roots S2-S4 and pelvic splanchnic nerves; Step 6, complete removal of LPE; Ste				
	7, hemostasis and assessment of tissue perfusion using ICG; and Step 8, application				
	barrier agents to prevent adhesion.				
Results	We achieved total removal of LPE with complete sparing of pelvic autonomic nerves,				
	decompression of somatic nerves and preservation of all branches of the internal iliac				
	vessels. Tissue perfusion using ICG was assessed as very good. The patient developed no				
	perioperative complications, including postoperative bladder, rectal or sexual dysfunctions.				
	Pain was completely resolved after surgery. Meticulous dissection based on sufficient				
	anatomical knowledge of the pelvic nerve system allows the development of nerve-sparing				
	techniques during pelvic surgery, decreasing postoperative morbidity. In addition, our step-				
	by-step technique help in performing each part of the surgery in a logical sequence, making				
	the procedure easier and safer to complete.				
Conclusion	Laparoscopic nerve-sparing radical parametrectomy is technically feasible for selected				
	patients with LPE. Suitably tailored treatment should be provided for each individual, based				
	on both the latest scientific evidence and life planning for the patient.				
Keywords	Lateral parametrial endometriosis, Nerve-sparing surgery, Radical parametrectomy				