

LAPAROSCOPIC HYSTERECTOMY FOR LARGE UTERUS

National Maternal Child Health Center
Pr. KEO MuoySroy

Objective

To describes the feasibility of hysterectomies by the minimally invasive way for large uterine size.

Contents

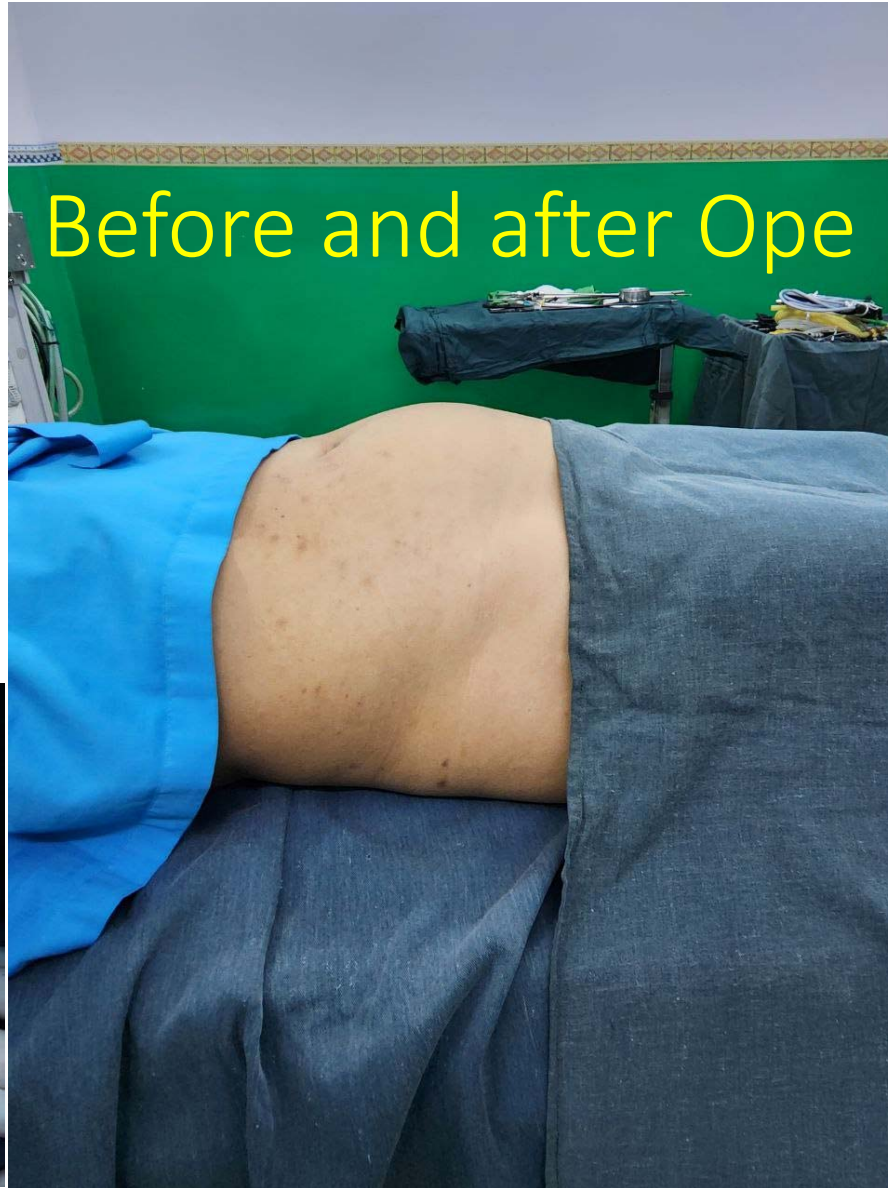
- Patients characteristics
- Operations characteristics

Patient characteristics	Pr.K.M.Sroy	<u>Rooma Sinha,</u> Manipal HD, India
Uterus >400g (5ys Ht= 395)	120cas = 30.38%	128 cases
Age	32-54ys = 42.16ys	44.4ys
Prior Laparoscopic surgery	2 Cas = 01.66%	36.7%
Prior Laparotomy surgery	09 cas = 07.50%	08.5%
Clinical size of Uterus	450-2700g 624g	17.5Ws
Adenomyosis	21 cas = 17.50%	09.5%
Uterin myoma	99 cas = 82,50%	90,5%

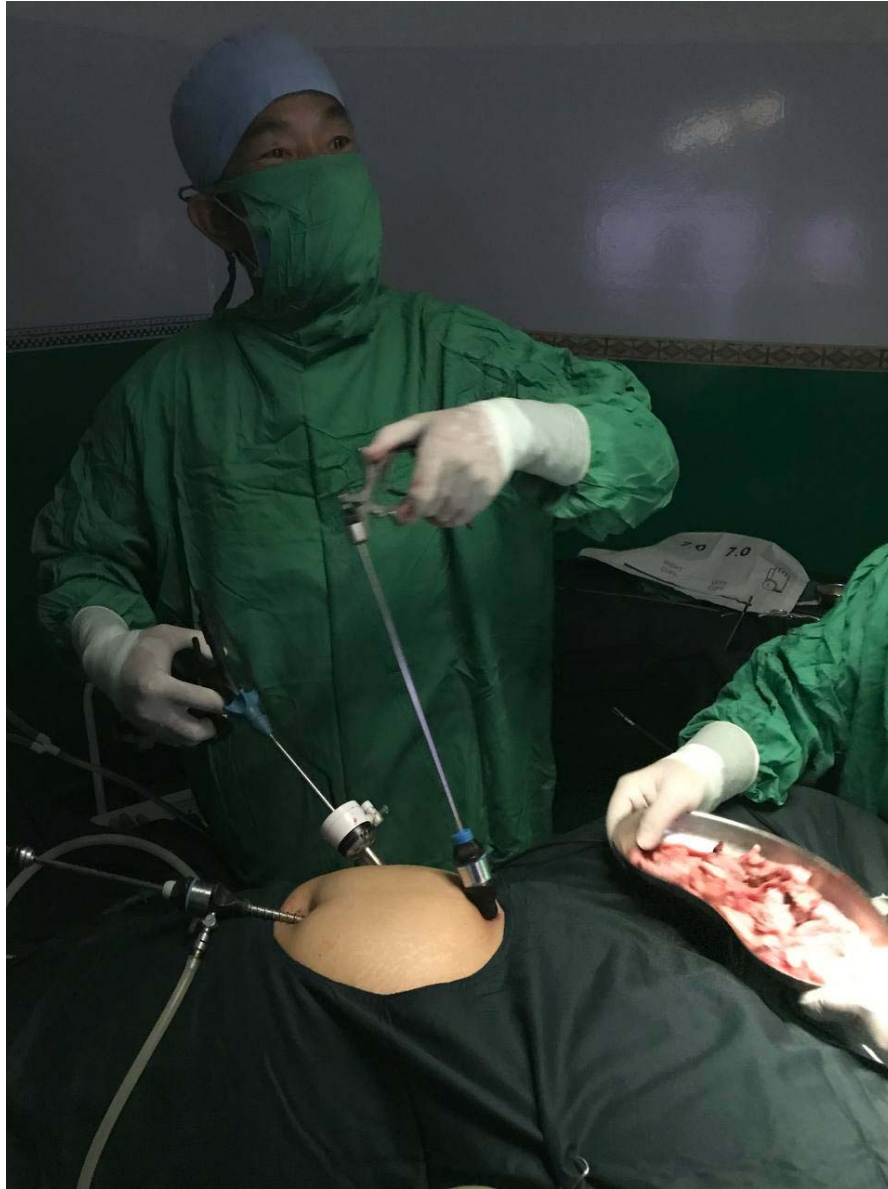
Operation characteristics	Pr.K.M.Sroy	Rooma Sinha , Manipal HP, India
3 ports (10mm- 5mm 2)	118 cas = 98.34%	50%
4 ports (10mm- 5mm 3)	2 cas = 01.66%	46.8%
5 ports (10mm- 5mm 4)	00 cas = 00%	03.2%
Intra uterin manipulation	00%	51.6%
Myoma screw	3 cas = 02.50%	47.7%
Intra operative myomect	6 cas = 05.00%	39.8%

Operation characteristics	Pr.K.M.Sroy	<u>Rooma Sinha</u> , Manipal HP, India
Difficult bladder dissection	13 cas =10.83%	26.6%
Intra operative injury	1(ureter) = 00.83%	02.3%
Vaginal morcellation	00%	82.2%
Suprapubic morcellation	00%	10.9%
Umbilical port morcellation	00%	06.25%
Iliac fossa port morcellation 120	100%	

Operation characteristics	Pr.K.M.Sroy	<u>Rooma Sinha,</u> Manipal HP, India
Blood transf. after Op.	00%	02%
Blood transf. before Op	2 cas = 01.19%	
Operative time	(60 – 210) 115mn	107.5mn
Length of stay at HP	(2-4 days) 2.5days	2 days
Use of extra analgesia	00%	21.9%
Post Op. complication	9 cas sup-occlus. = 05.00%	16.11%



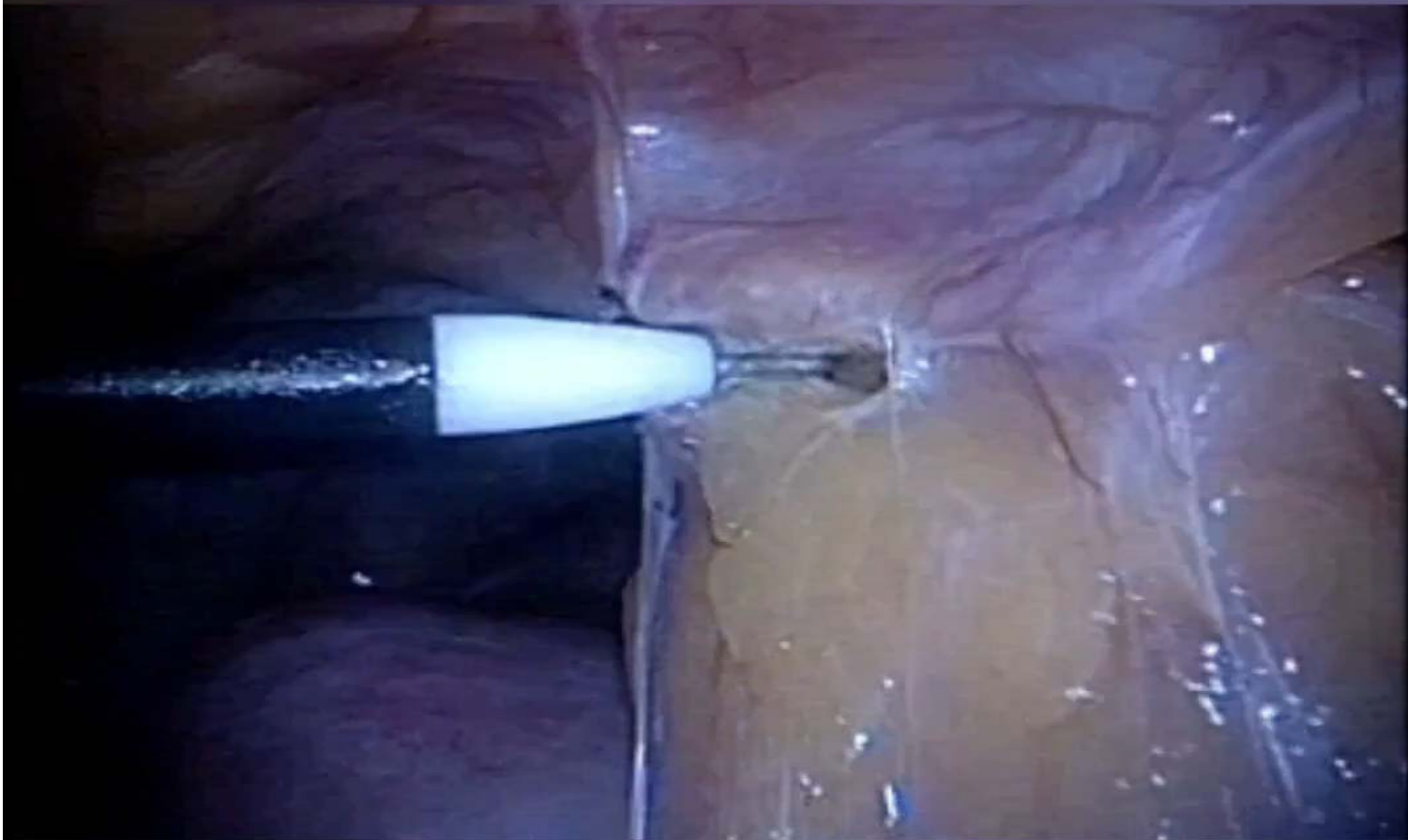
Trocars ports



Morcellation technic



2022



InShOt



Conclusion:

Laparoscopic hysterectomy:

- is **feasible** and **safe** procedure for large uterus.
- can be performed by **experienced**, regardless of the size, number or location of the myoma.

REFERENCES

1. Pandey D, Sehgal K, Saxena A, Hebbar S, Nambiar J, Bhat RG, et al. An audit of indications, complications, and justification of hysterectomies at a teaching hospital in India. *Int J Reprod Med* 2014. 2014 279273. [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]
2. Mukhopadhaya N, Manyonda IT. The hysterectomy story in the United Kingdom. *J Midlife Health*. 2013;4:40–1. [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]
3. Uccella S, Cromi A, Bogani G, Casarin J, Formenti G, Ghezzi F, et al. Systematic implementation of laparoscopic hysterectomy independent of uterus size: Clinical effect. *J Minim Invasive Gynecol*. 2013;20:505–16. [[PubMed](#)] [[Google Scholar](#)]
4. Walid MS, Heaton RL. Total laparoscopic hysterectomy for uteri over one kilogram. *JSLs*. 2010;14:178–82. [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]
5. Rolla M, Gagliardi ML, Giacomantonio L, Cecaroni M, Bruni F, Minelli L, et al. Total laparoscopic hysterectomy of an uterus of 1840 grams: A case report. *Acta Biomed*. 2009;80:282–5. [[PubMed](#)] [[Google Scholar](#)]
6. Kondo W, Bourdel N, Marengo F, Botchorishvili R, Pouly JL, Jardon K, et al. Is laparoscopic hysterectomy feasible for uteri larger than 1000 g? *Eur J Obstet Gynecol Reprod Biol*. 2011;158:76–81. [[PubMed](#)] [[Google Scholar](#)]
7. Kluijvers KB, Hendriks JC, Mol BW, Bongers MY, Bremer GL, de Vet HC, et al. Quality of life and surgical outcome after total laparoscopic hysterectomy versus total abdominal hysterectomy for benign disease: A randomized, controlled trial. *J Minim Invasive Gynecol*. 2007;14:145–52. [[PubMed](#)] [[Google Scholar](#)]
8. Uccella S, Morosi C, Marconi N, Arrigo A, Gisone B, Casarin J, et al. Laparoscopic versus open hysterectomy for benign disease in uteri weighing >1kg: A retrospective analysis on 258 patients. *J Minim Invasive Gynecol*. 2018;25:62–9. [[PubMed](#)] [[Google Scholar](#)]
9. Harb TS, Adam RA. Predicting uterine weight before hysterectomy: Ultrasound measurements versus clinical assessment. *Am J Obstet Gynecol*. 2005;193:2122–5. [[PubMed](#)] [[Google Scholar](#)]
10. Clavien PA, Barkun J, de Oliveira ML, Vauthey JN, Dindo D, Schulick RD, et al. The Clavien-Dindo classification of surgical complications: Five-year experience. *Ann Surg*. 2009;250:187–96. [[PubMed](#)] [[Google Scholar](#)]
11. Uccella S, Cromi A, Serati M, Casarin J, Sturla D, Ghezzi F, et al. Laparoscopic hysterectomy in case of uteri weighing ≥ 1 kilogram: A series of 71 cases and review of the literature. *J Minim Invasive Gynecol*. 2014;21:460–5. [[PubMed](#)] [[Google Scholar](#)]
12. Uccella S, Casarin J, Marconi N, Cromi A, Morosi C, Gisone B, et al. Laparoscopic versus open hysterectomy for benign disease in women with giant uteri (≥ 1500 g): Feasibility and outcomes. *J Minim Invasive Gynecol*. 2016;23:922–7. [[PubMed](#)] [[Google Scholar](#)]
13. Wright JD, Ananth CV, Lewin SN, Burke WM, Lu YS, Neugut AI, et al. Robotically assisted vs. laparoscopic hysterectomy among women with benign gynecologic disease. *JAMA*. 2013;309:689–98. [[PubMed](#)] [[Google Scholar](#)]
14. Loring M, Morris SN, Isaacson KB. Minimally invasive specialists and rates of laparoscopic hysterectomy. *JSLs*. 2015;19:e2014.00221. [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]
15. Altgassen C, Michels W, Schneider A. Learning laparoscopic-assisted hysterectomy. *Obstet Gynecol*. 2004;104:308–13. [[PubMed](#)] [[Google Scholar](#)]
16. Ou CS, Beadle E, Presthus J, Smith M. A multicenter review of 839 laparoscopic-assisted vaginal hysterectomies. *J Am Assoc Gynecol Laparosc*. 1994;1:417–22. [[PubMed](#)] [[Google Scholar](#)]
17. Stang A, Merrill RM, Kuss O. Nationwide rates of conversion from laparoscopic or vaginal hysterectomy to open abdominal hysterectomy in Germany. *Eur J Epidemiol*. 2011;26:125–33. [[PubMed](#)] [[Google Scholar](#)]
18. van den Haak L, Alleblas C, Nieboer TE, Rhemrev JP, Jansen FW. Efficacy and safety of uterine manipulators in laparoscopic surgery: A review. *Arch Gynecol Obstet*. 2015;292:1003–11. [[PubMed](#)] [[Google Scholar](#)]
19. Ceccaroni M, Roviglione G, Pesci A, Quintana S, Bruni F, Clarizia R, et al. Total laparoscopic hysterectomy of very enlarged uterus (3030 g): Case report and review of the literature. *Wideochir Inne Tech Maloinwazyjne*. 2014;9:302–7. [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]
20. Wong WS, Lee TC, Lim CE. Novel vaginal “paper roll” uterine morcellation technique for removal of large (>500 g) uterus. *J Minim Invasive Gynecol*. 2010;17:374–8. [[PubMed](#)] [[Google Scholar](#)]

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