GILLS ARTICLES

The Gas Insufflation Less Laparoscopic Surgeries [GILLS] make Laparoscopic Surgeries possible under low cost and easily available Spinal Anesthesia in remote and rural areas. The International Federation of Rural Surgeons hence endorses this for rural areas. The equipment is listed in the WHO compendium of innovative Health Care Technologies for low resource setting and has won awards like the Antia Finseth award of the Association of Rural Surgeons of India, the Millennium Alliance award of the Department of Science and Technology of Government of India and the GE Health care award. The following are the references for articles on GILLS published by the IFRS members.

1. Gnanaraj Jesudian. Single Incision Gas Less Laparoscopic Surgical Equipment. WHO Compendium of Innovative Health Care Technologies for low resource setting 2016 – 17. ISBN:  978-92-4-151469-9 Published by WHO 2018.
2. J. Gnanaraj. Gas Less Lift Laparoscopic Surgeries. Rural surgery Vol. 8 No. 4 January 2013 p17 -19
3. Gnanaraj J. SILS appendicectomy with Gas less Lift Laparoscopic Surgeries. MD Current India December 2013 Available from: <http://mdcurrent.in/surgery/video-sils-appendicectomy-gasless-lift-laparoscopic-surgery/>
4. Linda Sailo, Gnanaraj Jesudian. Single Incision gasless Laparoscopic surgeries and other low cost minimally invasive Techniques for evaluation of infertility in rural areas. International Journal of Infertility and Fetal Medicine January – April 2014: 5(1) p413 -4 DOI : 10.5005/jp-journals-10016-1078
5. Gnanaraj J, Kevin Gnanaraj, Sungtiakum Jamir, Stanley Maria, Michel Rhodes. Instruments for Gasless Single – Incision Lift Laparoscopic surgery: Making laparoscopic surgery available to the poor. MD Current India JUly 2014. Available from: <http://mdcurrent.in/primary-care/instruments-gasless-single-incision-lift-laparoscopic-surgery-making-laparoscopic-surgery-available-poor/>
6. Gnanaraj J, Danita G, Kevin G, Stanley Maria Albert, Bravin LR. Gasless or Lift Laparoscopic surgery equipment: A Comparison of available options. MD Current India July 2015. Available from: http://mdcurrent.in/primary-care/gasless-or-lift-laparoscopic-surgery-equipment-a-comparison-of-available-options/
7. Gnanaraj J. COURSE IN GAS LESS LIFT LAPAROSCOPIC SURGERY. MD CURRENT INDIA. Available from: <http://mdcurrent.in/courses/lift-laparoscopy/>
8. J. Gnanaraj, M Rhodes. Laparoscopic surgery in low and middle income countries: gasless lift laparoscopic surgery. Surgical Endoscopy. May 2016 30 (5) p 2151-4 DOI:10.1007/s00464-015-4433-1
9. Gnanaraj J. Video: SILS appendicectomy with gasless lift laparoscopic surgery. MD Current India April 2015. Available from: <http://mdcurrent.in/surgery/video-sils-appendicectomy-gasless-lift-laparoscopic-surgery/>
10. Jesudian G. Single Incision Gasless Laparoscopic Myomectomy. International Journal of Infertility and Fetal Medicine. Vol. 6 Issue 2, May – August 2015, p 84 – 87
11. Gnanaraj J. Why Gas Less Laparoscopic Surgeries? MD Current India October 2015. Available from: http://mdcurrent.in/patients/why-gasless-laparoscopic-surgeries/
12. Gnanaraj J. Antia Finseth award presentation at Karad 2015. Single incision gasless laparoscopic surgeries. MD Current India November 2015. Available from: http://mdcurrent.in/primary-care/ifrs-arsi-karad-2015-gasless-laparoscopic-surgeries/
13. Gnanaraj J. Video – Gas less laparoscopic surgeries taking minimally invasive surgery to the poor. MD Current India January 2016. Available from: http://mdcurrent.in/primary-care/gasless-surgeries-at-seesha/
14. Gnanaraj J. Gas less laparoscopic surgeries: Initial experience with 500 surgeries. MD Current India August 2016. Rural Surgery Vol. 11, No. 3, August 2016 p 5-9
15. Gnanaraj J. Gas less Laparoscopic surgeries making MIS available and affordable: The Medicall innovations award presentation 2016. MD Current India July 2016. Available from: <http://mdcurrent.in/primary-care/gasless-laparoscopic-surgeries-making-mis-affordable-available-medicall-innovations-awards-presentation/>
16. Gnanaraj J. Marketing gas less surgeries. MD Current India February 2017. Available from: [http://mdcurrent.in/practice-management/marketing-gas-less-surgery/
17. Gnanaraj J. Gas Less Laparoscopic Surgery workshop. MD Current India September 2017. Available from: <http://mdcurrent.in/in-the-news/gas-less-lift-laparoscopic-surgeries-workshop/>
18. Gnanaraj J. When there is no gas: Laparoscopic surgeries in rural areas. MD Current India October 2017. Available from: <http://mdcurrent.in/surgery/no-gas-laparoscopic-surgery-rural-areas/>
19. Deepak David Chellappa, Gnanaraj. J. Gas Less Lift Laparoscopic Surgeries [GLLS]: Our initial experience in remote rural areas in India. MD Current India October 2017. Available from: http://mdcurrent.in/surgery/gas-less-lift-laparoscopic-surgeries-glls-initial-experience-750-surgeries-remote-rural-areas-india/
20. Gnanaraj J. Laparoscopic Tubectomy with Fallopian ring vs. GILLS Tubectomy a Comparison. Rural Surgery Vol. 13 No. 2 p 24 to 26, March 2018
21. Dr. Sukumar Maiti, Dr. Gnanaraj J. GILLS Workshop at Medical College Kolkata Mayy 23, 2018 A report. Rural Surgery Vol. 13. No. 2 p 35, 26, March 2018
22. Dr. Jerome Mughisha, J. Gnanaraj. My experience with GILLS in India. MD Current India September 2018. Available from: http://mdcurrent.in/practice-management/my-experience-with-gas-insufflation-less-laparoscopy-in-india-june-10th-2018-june-29th-2018/
23. Sukumar Maitii, J. Gnanaraj. Gas Insufflation Less Laparoscopic surgery workshop at Midnapore Medical college. MD Current India. September 2018. Available from: http://mdcurrent.in/primary-care/gas-insufflation-less-laparoscopic-surgery-workshop-at-midnapore-medical-college/
24. Dr. J. Gnanaraj, Dr. Jerome Mugisha. Gas Insufflation Less Laparoscopic Surgeries and Rural Urology for Uganda. MD Current India September 2018. Available from: http://mdcurrent.in/primary-care/gas-insufflation-less-laparoscopic-surgeries-rural-urology-for-uganda/
25. J. Gnanaraj. The Gas Insufflation Less Laparoscopic Surgeries [GILLS] Update. MD Current India. January 2019. Available from: http://mdcurrent.in/primary-care/the-gas-insufflation-less-laparoscopic-surgeries-gills-update/
26. J. Gnanaraj. Project GILLS of ARSI. MD Current India. Vol 7 Jan 2019 . Available from: [http://mdcurrent.in/primary-care/project-gills-of-arsi/
27. Noel A. Bolton W, Gnanaraj K, Gnanaraj J.. et.al [Gas Insufﬂation Less Laparoscopic Surgery (GILLS) for Minimally Invasive Surgery in Low-Resource Settings: Methods for Evaluating Surgical Field of View (FOV) and Abdominal Wall Lift (AWL) Force - A Cadaveric Study Model](https://www.researchgate.net/publication/342571570_Gas_Insufflation_Less_Laparoscopic_Surgery_GILLS_for_Minimally_Invasive_Surgery_in_Low-Resource_Settings_Methods_for_Evaluating_Surgical_Field_of_View_FOV_and_Abdominal_Wall_Lift_AWL_Force_-_A_Cadaver?_sg=5-UxbBH0x7ePSlflmT83lglD3HS_BFWdiESJetu0YJIw6oL-k1Msytte8V3BBNGEMoj14PYIEDO_hPjnTgtF_StS9ZLEbnkokU5Eaq_t.QliW1-fx0lrkIkwWmu2oYNXr9283mK6R2LDeWqNoLJYk-ZPFoE1TN8iyceriAS9A5qiodT2efAlzL9Pd80qezw). Conference Paper. September 2019. Association of Surgeons in Training (ASiT) National Conference. Available from: <https://bjssjournals.onlinelibrary.wiley.com/doi/abs/10.1002/bjs.11344>