



AirSeal Bibliography

May 2022

Authors	Title	Year	Speci.	Link
Herati, Kavoussi	Use of the Valveless Trocar System Reduces Carbon Dioxide Absorption During Laparoscopy When Compared With Standard Trocars. Amin S. Herati, Sero Andonian, Soroush Rais-Bahrami, Mohamed A. Atalla, Arun K. Srinivasan, Lee Richstone, and Louis R. Kavoussi.	2011	URO	https://pubmed.ncbi.nlm.nih.gov/20888033/
Ruckbeil	The barrier-free trocar technique in three laparoscopic standard procedures. Ruckbeil O, Lewin A, Federlein M, Gellert K. J Minim Access Surg. 2012 Jan;8(1):9-12.	2012	GEN	https://www.ncbi.nlm.nih.gov/pubmed/22303082
Bhayani	Benchtop evaluation of pressure barrier insufflator and standard insufflator systems. Nepple KG, Kallogjeri D, Bhayani SB. Surg Endosc. 2013 Jan;27(1):333-8.	2013	URO	https://www.ncbi.nlm.nih.gov/pubmed/22833262
Horstmann	Prospective comparison between the AirSeal System valve-less Trocar and a standard Versaport Plus V2 Trocar in robotic-assisted radical prostatectomy. Horstmann M, Horton K, Kurz M, Padevit C, John H. J Endourol. 2013 May;27(5):579-82.	2013	URO	https://www.ncbi.nlm.nih.gov/pubmed/23186377
D'Hoore, Wolthuis	AirSeal System insufflator to maintain a stable pneumorectum during TAMIS. Bis lenghi G, Wolthuis AM, de Buck van Overstraeten A, D'Hoore A. Tech Colo- proctol. 2015 Jan;19(1):43-5.	2014	COLOR.	https://www.ncbi.nlm.nih.gov/pubmed/25421704
Needleman	Retrospective Study Of The AirSeal® System For Laparoscopic Bariatric Surgery. James A. Rydlewicz*, MD, Andrew J. Suzo, BS, Bradley J. Needleman, MD.	2014	BARIAT.	https://www.sages.org/meetings/annual-meeting/abstracts-archive/retrospective-study-of-the-airsealm-system-for-laparoscopic-bariatric-surgery/
Luketina	Comparison of a standard CO2 pressure pneumoperitoneum insufflator versus AirSealTM: study protocol of a randomized controlled trial. Ruzica Rosalia Luketina, Michael Knauer, Gernot Köhler, Oliver Owen Koch, Klaus Strasser, Margot Egger and Klaus Emmanuel.	2014	GEN	https://www.ncbi.nlm.nih.gov/pubmed/24950720
Knol	Optimal dissection for transanal total mesorectal excision using modified CO2 insufflation and smoke extraction. Nicholson G, Knol J, Houben B, Cunningham C, Ashraf S, Hompes R. Colorectal Dis. 2015 Nov;17(11):O265-7.	2015	COLOR.	https://www.ncbi.nlm.nih.gov/pubmed/26218459
Miyano, Urushohara	Laparoscopic Toupet Fundoplication using an Air Seal Intelligent Flow System and Anchor Port in a 1.8-kg infant: A Technical Report. Go Miyano,1 Keiichi Morita,1 Masakatsu Kaneshiro,1 Hiromu Miyake,1 Hiroshi Nouse,1 Masaya Yamoto,1 Mariko Koyama,1 Reiji Nakano,2 Yasuhiko Tanaka,2 Koji Fukumoto1 & Naoto Urushihara1.	2015	PEDIAT.	https://onlinelibrary.wiley.com/doi/abs/10.1111/ases.12182
Maykel	Laparoscopic Transanal Total Mesorectal Excision (taTME) for Rectal Cancer. Maykel JA. Gastrointest Surg. 2015 Oct;19(10):1880-8.	2015	COLOR.	https://www.ncbi.nlm.nih.gov/pubmed/26129653
Kavoussi, Wimhofer	Utilization of a novel valveless trocar system during robotic-assisted laparoscopic prostatectomy. George AK, Wimhofer R, Viola KV, Pernegger M, Costamoling W, Kavoussi LR, Loidl W. World J Urol. 2015 Nov;33(11):1695-9.	2015	URO	https://www.ncbi.nlm.nih.gov/pubmed/25725807
Sanchez-Salas, Wiklund	A single center randomized controlled trial assessing the effect of the AirSeal™ system on operation times for totally intracorporeal robotic assisted radical cystectomy. Rodolfo Sanchez-Salas, MD, Justin Collins, MD, Oscar Laurin, MD, Christofer Adding, MD, Abolfazl Hosseini, MD, PhD, Peter Wiklund, MD.	2015	URO	https://www.researchgate.net/publication/282211144_PE20_A_single_centre_randomized_controlled_trial_assessing_the_effect_of_the_AirsealR_system_on_operation_times_for_totally_intracorporeal_RARC
Atallah	Transanal total mesorectal excision: full steam ahead. Atallah S. Tech Coloproctol. 2015 Feb;19(2):57-61.	2015	COLOR.	https://link.springer.com/article/10.1007/s10151-014-1254-5
Ramshaw	Low Impact Laparoscopic Ventral Hernia Surgery using AirSeal® System. B.Ramshaw.	2015	GEN	http://burrellross.com/surgquest-2015/htdocs/includes/images/pdf/ventral-hernia-surgery.pdf
Knol	Transanal total mesorectal excision: technical aspects of approaching the mesorectal plane from below. Knol J, Chadi SA. Minim Invasive Ther Allied Technol. 2016 Oct;25(5):257-70.	2016	COLOR.	https://www.ncbi.nlm.nih.gov/pubmed/27652798
Gaunay, Richstone	Trocars: Site Selection, Instrumentation, and Overcoming Complications. Geoffrey S. Gaunay, MD,1 Sammy E. Elsamra, MD,2 and Lee Richstone, MD.	2016	URO	https://pubmed.ncbi.nlm.nih.gov/27203364/

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Mourmouris	Minimizing Ports During Robotic Partial Nephrectomy. Argun OB, Mourmouris P, Tufek I, Obek C, Tuna MB, Keskin S, Kural AR. JSLS. 2016 Apr-Jun;20(2).	2016	URO	https://www.ncbi.nlm.nih.gov/pubmed/27403042
Landman	Comparison of Pneumoperitoneum Stability Between a Valveless Trocar System and Conventional Insufflation: A Prospective Randomized Trial. Bucur P, Hofmann M, Menhadji A, Abedi G, Okhunov Z, Rinehart J, Landman J. Urology. 2016 Aug;94:274-80.	2016	URO	https://www.ncbi.nlm.nih.gov/pubmed/27130263
Miyano, Yamataka	Pneumoperitoneum and hemodynamic stability during pediatric laparoscopic appendectomy. Go Miyano *, Hiroki Nakamura, Shogo Seo, Ryo Sueyoshi, Manabu Okawada, Takashi Doi, Hiroyuki Koga, Geoffrey J. Lane, Atsuyuki Yamataka.	2016	PEDIAT.	https://www.jpedsurg.org/article/S0022-3468(16)30339-6/pdf
Christensen	Examining clinical outcomes utilizing low-pressure pneumoperitoneum during robotic-assisted radical prostatectomy. Christensen CR, Maatman TK, Maatman TJ, Tran TT. J Robot Surg. 2016 Sep;10(3):215-9.	2016	URO	https://www.ncbi.nlm.nih.gov/pubmed/27059614
Annino	Robotic partial nephrectomy performed with Airseal versus a standard CO ₂ pressure pneumoperitoneum insuflator: a prospective comparative study. Annino F, Topazio L, Autieri D, Verdacchi T, Asimakopoulos AD. Surg Endosc. 2017 Apr;31(4):1583-1590.	2016	URO	https://www.ncbi.nlm.nih.gov/pubmed/27495337
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DeLacy	Transanal total mesorectal excision (TaTME) for rectal cancer: Step by step description of the surgical technique for a two-teams approach. Arroyave MC, DeLacy FB, Lacy AM. Eur J Surg Oncol. 2017 Feb;43(2):502-505.	2017	COLOR.	https://www.ncbi.nlm.nih.gov/pubmed/27914773
Plummer	Recent advances in the management of rectal cancer: No surgery, minimal surgery or minimally invasive surgery. Plummer JM, Leake PA, Albert MR. World J Gastrointest Surg. 2017 Jun 27;9(6):139-148.	2017	COLOR.	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5483413/
Suda	Transition from video-assisted thoracic surgery to robotic pulmonary surgery. Takashi Suda.	2017	THORAC.	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5637952/
Mottrie, Vandenbroucke	Low Pressure Robot-assisted Radical Prostatectomy With the AirSeal System at OLV Hospital: Results From a Prospective Study. La Falce S, Novara G, Gandaglia G, Umari P, De Naeyer G, D'Hondt F, Beresian J, Carette R, Penicka M, Mo Y, Vandenbroucke G, Mottrie A. Clin Genitourin Cancer. 2017 Jun 2. pii: S1558- 7673(17)30164-7.	2017	URO	https://www.ncbi.nlm.nih.gov/pubmed/28669704
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Benifla	Low pressure gynecological laparoscopy (7mm Hg) with AirSeal System versus a standard insufflation (15mmHg): A pilot study in 60 patients. Sroussi J, Elies A, Rigouzzo A, Louvet N, Mezzadri M, Fazel A, Benifla JL. J Gynecol Obstet Hum Reprod. 2017 Feb;46(2):155-158.	2017	GYN	https://www.ncbi.nlm.nih.gov/pubmed/28403972

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Finkelstein, Casale	DOES PNEUMOPERITONEUM CAUSE TRANSIENT RENAL INJURY IN CHILDREN? Julia Finkelstein*, New York, NY; Solomon Woldu, Dallas, TX; Alexander Small, Nina Mikkilineni, Sarah Lambert, Pasquale Casale, New York, NY.	2017	PEDIAT.	https://www.auajournals.org/doi/pdf/10.1016/j.juro.2017.02.1631
Knol, Hompes	Operative vectors, anatomic distortion, fluid dynamics and the inherent effects of pneumatic insufflation encountered during transanal total mesorectal excision. S. Atallah · P. Gonzalez · S. Chadi · R. Hompes · J. Knol <i>Tech Coloproctol</i> , July 2017 DOI 10.1007/s10151-017-1693.	2017	CR	https://www.ncbi.nlm.nih.gov/pubmed/28993914
De'Angelis	Low-impact laparoscopic cholecystectomy is associated with decreased postoperative morbidity in patients with sickle cell disease. Nicola de'Angelis · Solafah Abdalla · Maria Clotilde Carra · Vincenzo Lizzi · Aleix Martínez-Pérez · Anoosha Habibi · Pablo Bartolucci, Frédéric Galactéros, · Alexis Laurent · Francesco Brunetti.	2017	GEN	https://www.ncbi.nlm.nih.gov/pubmed/29098436
Hamilton, Westwood	Colorectal surgeons should be open to modern surgical technologies for challenging cases. Auerilius E. R. Hamilton,*† Andrew R. L. Stevenson,*†‡ Conor D. Warren*‡ and David A. Westwood*‡.	2017	COLOR.	https://pubmed.ncbi.nlm.nih.gov/30069998/
Hompes, Adamina	St. Gallen consensus on safe implementation of transanal total mesorectal excision. Michel Adamina, Nicolas C. Buchs, Marta Penna, Roel Hompes, on behalf of the St. Gallen Colorectal Consensus Expert Group. <i>Surg Endosc</i> . DOI 10.1007/s00464-017-5967-1.	2017	COLOR.	https://www.ncbi.nlm.nih.gov/pubmed/29234940
Dagher	Routine mini-laparoscopic cholecystectomy: Outcome in 200 patients. Dammaro C, Tranchart H, Gaillard M, Delmas A, Ferretti S, Lainas P, Dagher I.	2017	GEN	https://www.ncbi.nlm.nih.gov/pubmed/27618697
Mulier, Dillemans	Balanced Anaesthesia and a standard 15 mmHg Pneumoperitoneum is compared with a 3-liter Volume AirSeal pneumoperitoneum and an anti-Inflammatory opioid free Anaesthesia. Mulier J.a, Dillemans B. b.	2017	BARIAT.	https://www.morressier.com/article/balanced-anaesthesia-standard-15-mmhg-pneumoperitoneum-compared-3-liter-volume-airseal-pneumoperitoneum-antiinflammatory-opioid-free-anaesthesia/58f5b031d462b80296c9d50e
Abaza	Outcomes of robotic prostatectomy performed at ultralow pneumoperitoneum pressure of 6mmHg versus standard pressure of 15mmHg. Matthew Ferroni, Janice Rosenthal, Ronney Abaza, Dublin, OH.	2018	URO	https://www.jurology.com/doi/pdf/10.1016/j.juro.2018.02.875
Feng	Comparison of valve-less and standard insufflation on pneumoperitoneum-related complications in robotic partial nephrectomy: a prospective randomized trial. Tom Feng, Gerald Heulitt, Adel Islam, James Porter.	2018	URO	https://www.jurology.com/doi/full/10.1016/j.juro.2018.02.874
De'Angelis	The protocol of low-impact laparoscopic cholecystectomy: the combination of mini-laparoscopy and low-pressure pneumoperitoneum. Nicola de'Angelis, Niccolò Petrucciani, Giusy Giannandrea, Francesco Brunetti. <i>Italian Society of Surgery (SIC)</i> 2018.	2018	GEN	https://www.ncbi.nlm.nih.gov/pubmed/30159821
Hamilton	Colorectal surgeons should be open to modern surgical technologies for challenging cases. Auerilius E. R. Hamilton,*† Andrew R. L. Stevenson,*†‡ Conor D. Warren*‡ and David A. Westwood*‡ *Department of Colorectal Surgery, Holy Spirit Northside Private Hospital, Brisbane, Queensland, Australia.	2018	COLOR.	https://onlinelibrary.wiley.com/doi/abs/10.1111/ans.14741
Mulier	A Prospective Randomized Controlled Trial Comparing a Multitarget Opioid Free Anaesthesia (OFA) and a 3-Liter Volume Calculated Airseal Carbon Dioxide Insufflator with a Balanced Anaesthesia Using Sufentanil-Sevoflurane and a Standard 15 MmHg Carbon Dioxide Pressure Pneumoperitoneum Insufflator in a 2x2 Factorial Design. Jan P.Mulier J.a, Dillemans B, AZ Sint Jan Brugge-Oostende, Dept of Anaesthesiology & Intensive Care, Bruges, Belgium.	2018	ANESTH, BARIATRIC	https://www.researchgate.net/publication/329196151_A_Prospective_Randomized_Controlled_Trial_Comparing_a_Multitarget_Opioid_Free_Anaesthesia_OFA_and_a_3-Liter_Volume_Calculated_Airseal_Carbon_Dioxide_Insufflator_with_a_Balanced_Anaesthesia_Using_Sufen

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Vasdev	Cytokine Guided Robotic Prostatectomy. Nikhil Vasdev, Nidhin Raj, Linda Fowler, Gowrie Mohan-S, Venkat Prasad, Shori Thakur, Anwar Baydon.	2018	URO	https://www.eusupplements.europeanurology.com/article/S1569-9056(18)32280-2/fulltext
Marescaux	Impact of valveless vs. standard insufflation on pneumoperitoneum volume, inflammation, and peritoneal physiology in a laparoscopic sigmoid resection experimental model. Michele Diana, Eric Noll, Andras Legnèr, Seong-Ho Kong, Yu-Yin Liu, Luigi Schiraldi · Francesco Marchegiani · Jordan Bano · Bernard Geny, Anne-Laure Charles, Bernard Dallemagne, Véronique Lindner, Didier Mutter, Pierre Diemunsch, Jacques Marescaux.	2018	COLOR.	https://www.ncbi.nlm.nih.gov/pubmed/29330589
Soubrane, Scatton	3D vision and maintenance of stable pneumoperitoneum: a new step in the development of laparoscopic right hepatectomy. Takayuki Kawai, Claire Goumard, Florence Jeune, Shohei Komatsu, Olivier Soubrane, Olivier Scatton.	2018	HEPAT	https://link.springer.com/article/10.1007%2Fs00464-018-6205-1
Bolshinsky	CO2 embolus during transanal TME; thoughts on aetiology. Vladimir Bolshinsky, Sherief Shawki, Scott Steele.	2018	COLOR.	https://www.researchgate.net/publication/328193977_CO2_embolus_during_transanal_TME_thoughts_on_aetiology/link/5cdab28b92851c4eab9dca4f/download
Advincula, Ryntz	Comparison of Carbon Dioxide Absorption Rates in Gynecologic Laparoscopy with a Valveless versus Standard Insufflation System: Randomized Controlled Trial. Obianuju S. Madueke-Laveaux, MD, MPH, Arnold Advincula, MD, Cara L. Grimes, MD, MAS, Ryan Walters, BS, Jin Hee Kim, MD, MS, Khara Simpson, MD, Mireille Truong, MD, Constance Young, MD, Ruth Landau, MD, and Timothy Ryntz, MD.	2019	GYN.	https://www.jmig.org/article/S1553-4650(19)30218-3/pdf
Rohloff	Reduction in postoperative ileus rates utilizing lower pressure pneumoperitoneum in robotic-assisted radical prostatectomy. Rohloff M, Cicic A, Christensen C, Maatman TK, Lindberg J, Maatman TJ.	2019	URO	https://www.ncbi.nlm.nih.gov/pubmed/30604275
Shahait, Lee	Improved Outcomes Utilizing a Valveless-Trocar System during Robot-assisted Radical Prostatectomy (RARP). Mohammed Shahait, MBBS, Ross Cockrell, MD, Mona Yezdani, MD, Sue-Jean Yu, Alexandra Lee, Kellie McWilliams, David I. Lee, MD.	2019	URO	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6364705/
Eiben	Utilisation of Airseal iFS trocar system in laparoscopic cholecystectomy. Inez Eiben, Paola Eiben, Nabeel Qureshi, Pennyloise Hever.	2019	GEN	https://app.oxfordabstracts.com/events/749/program-app/submission/89412
De Lacy	Impact of pneumoperitoneum on intra-abdominal microcirculation blood flow: an experimental randomized controlled study of two insufflator models during transanal total mesorectal excision. F. Borja de Lacy, Pilar Taurà, María Clara Arroyave, Jean-Sébastien Trépanier, José Ríos, Raquel Bravo, Ainitze Ibarzabal, Romina Pena, Ramon Deulofeu, Antonio M. Lacy.	2019	COLOR.	https://link.springer.com/article/10.1007/s00464-019-07236-5
Tuynman	Structured training pathway and proctoring; multicenter results of the implementation of transanal total mesorectal excision (TaTME) in the Netherlands M. Veltcamp Helbach, S. E. van Oostendorp, T. W. A. Koedam, J. J. Knol · H. B. A. C. Stockmann, S. J. Oosterling, R. C. L. M. Vuylsteke, E. J. R. de Graaf, P. G. Doornebosch, R. Hompes, H. J. Bonjer, C. Sietses, J. B. Tuynman.	2020	COLOR.	https://www.ncbi.nlm.nih.gov/pubmed/30888498
Francis	Development and Early Outcomes of the National Training initiative for Transanal Total Mesorectal Excision (TaTME) in the UK. Nader Fancis PhD, Marta Penna MRCS, Fiona Carter PhD, Neil J. Mortensen FRCS, and Roel Hompes PhD.	2020	COLOR.	https://onlinelibrary.wiley.com/doi/abs/10.1111/codi.15022
Elsayed	"Robot-assisted radical cystectomy: Review of surgical technique, and perioperative, oncological and functional outcomes. Ahmed S Elsayed, Naif A Aldhaam, Lindsay Nitsche, Alat Siam, Zhe Jing, Ahmed A Hussein, Katsumi Shigemura, Masato Fujisawa and Khurshid A Guru"	2020	URO	https://onlinelibrary.wiley.com/doi/full/10.1111/iju.14178
Durand	Robotic lobectomy in children with severe bronchiectasis: A worthwhile new technology. Marion Durand, Layla Musleh, Fabrizio Vatta, Giorgia Orofino, Stefania Querciagrossa, Myriam Jugie, Olivier Bus-tarret, Christophe Delacourt, Sabine Sarnacki, Thomas Blanc, Naziha Khen-Dunlop.	2020	PEDIAT.	https://pubmed.ncbi.nlm.nih.gov/33250217/

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Boualaoui	"Medico-Economic Impact of the AirSeal® Insufflator: Example of Laparoscopic Sacrocolpopexy Boualaoui I, Bey E, De Villeneuve MH, Dergamoun H, Droupy S and Wagner L".	2021	ECO	http://www.clinicsinsurgery.com/abstract.php?aid=7116
Bracale	"Smoke Evacuation During Laparoscopic Surgery: A Problem Beyond the COVID-19 Period. A Quantitative Analysis of CO2 Environmental Dispersion Using Different Devices Umberto Bracale, MD, PhD, Vania Silvestri, MD, Emanuele Pontecorvi, MD, Immacolata Russo, Maria Triassi, MD, Elisa Cassinotti, MD, PhD, Giovanni Merola, MD, Paolo Montuori, MD, Luigi Boni, MD, and Francesco Corcione, MD".	2021	COLOR.	https://pubmed.ncbi.nlm.nih.gov/33961529/
Denost	"Low-pressure versus standard pressure laparoscopic colorectal surgery (PAROS trial): a phase III randomized controlled trial S. Celarier 1, S. Monziols, B. Célérier, V. Assenat, P. Carles, G. Napolitano, M. Laclau-Lacrouts, E. Rullier, A. Ouattara and Q. Denost".	2021	COLOR.	https://pubmed.ncbi.nlm.nih.gov/33755088/
Blanc	"Impact of the COVID-19 pandemic on oncological and functional robotic-assisted surgical procedures Thomas Blanc, Ugo Pinar, Julien Anract, Jalal Assouad, François Audenet, Bruno Borghese, Alexandre De La Taille, Alaa El Ghoneimi, Pierre Mongiat-Artus, Pierre Mordant, Christophe Penna, Morgan Roupret".	2021	ROBOT	https://pubmed.ncbi.nlm.nih.gov/33511526/
Vasdev	Serum cytokine levels as a marker of paralytic ileus following robotic radical prostatectomy at different pneumoperitoneal pressures Alexander Hampson, Nidhin Raj, Vidhya Lingamanaicker, Shori Thakur, Gowrie Mohan Shan, Venkat Prasad, Anwar Baydoun, Nikhil Vasdev.	2021	URO	https://pubmed.ncbi.nlm.nih.gov/34168526/
Buda	Low-Pressure Laparoscopy Using the AirSeal System versus Standard Insufflation in Early-Stage Endometrial Cancer: A Multicenter, Retrospective Study (ARIEL Study).	2022	GYN	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8953067/
D'Hondt	Transition from laparoscopic to robotic liver surgery: clinical outcomes, learning curve effect, and cost effectiveness.	2022	GEN	https://pubmed.ncbi.nlm.nih.gov/35322342/
Dabi	Total Hysterectomy by Low-Impact Laparoscopy to Decrease Opioids Consumption: A Prospective Cohort Study	2022	GYN	https://pubmed.ncbi.nlm.nih.gov/35456257/
Claroni	Valveless Trocar Versus Standard Pneumoperitoneum Insufflation System in Minimally Invasive Surgery: Impact on Postoperative Pain. A Systematic Review and Meta-Analysis	2022	GEN	https://pubmed.ncbi.nlm.nih.gov/35404130/



W.A. Mozartlaan 3
1620 Drogenbos
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