

Supplemental Digital Content 2. List of Full-Text Articles Reviewed

Title	Year	Journal	Authors	Include or Exclude?	Exclusion Reason
Colectomy for patients with super obesity: current practice and surgical morbidity in the United States	2020	Surg Obes Relat Dis	Abd El Aziz, M.A. and Grass, F. and Perry, W. and Behm, K.T. and Shawki, S.F. and Larson, D.W. and Mathis, K.L.	Include	
African Americans experience higher operative morbidity after colorectal surgery than caucasians	2012	Dis Colon Rectum	Abe, S. and Bikhchandani, J. and Vo, D. and Ternent, C. and Beaty, J. and Blatchford, G. and Shashidharan, M. and Thorson, A.	Exclude	Conference Abstract Only
A comparison of trends in operative approach and postoperative outcomes for colorectal cancer surgery	2017	J Surg Res	Addae, Jamin K; Gani, Faiz; Fang, Sandy Y; Wick, Elizabeth C; Althumairi, Azah A; Efron, Jonathan E; Canner, Joseph K; Euhus, David M; Schneider, Eric B;	Include	
Race/ethnicity and socio-economic differences in colorectal cancer surgery outcomes: Analysis of the nationwide inpatient sample	2016	BMC Cancer	Akinyemiju, T. and Meng, Q. and Vin-Raviv, N.	Exclude	No comparison for robotic surgery
Trends in clinical and financial outcomes after robotic colorectal surgery over time: We need to keep pushing the technology envelope	2018	Dis Colon Rectum	Al-Mazrou, A.M. and Baser, O. and Kiran, R.P.	Exclude	Conference Abstract Only
Robotic versus laparoscopic sigmoid colectomy: analysis of healthcare cost and utilization project database	2020	Am Surg	Alharthi, Samer; Reilly, Margaret; Arishi, Abdulaziz; Ahmed, Amin Mohamed; Chulkov, Maria; Qu, Weikai; Ortiz, Jorge; Nazzal, Munier; Pannell, Stephanie;	Include	

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National disparities in laparoscopic colorectal procedures for colon cancer.	2014	Surg Endosc	Alnasser, Monirah and Schneider, Eric B and Gearhart, Susan L and Wick, Elizabeth C and Fang, Sandy H and Haider, Adil H and Efron, Jonathan E	Exclude	No comparison for robotic surgery
PCN211 Predictors of minimally invasive surgical approach in medicare patients undergoing elective resection for colorectal cancer	2019	Value Health	Ammann, E.M. and Johnston, S. and Nayak, A. and Nagle, D. and Patkar, A. and Charlton, M.	Exclude	Conference Abstract Only
Minimally Invasive Colorectal Cancer Surgery in Europe: Implementation and Outcomes.	2016	Medicine (Baltimore)	Babaei, Masoud and Balavarca, Yesilda and Jansen, Lina and Gondos, Adam and Lemmens, Valery and Sjöqvall, Annika and Brge Johannesen, Tom and Moreau, Michel and Gabriel, Liberale and Gonçsalves, Ana Filipa and Bento, Maria Jos© and van de Velde, Tony and Kempfer, Lana Raffaella and Becker, Nikolaus and Ulrich, Alexis and Ulrich, Cornelia M and Schrotz-King, Petra and Brenner, Hermann	Exclude	Conference Abstract Only
Population-based patient characteristics as predictors of laparoscopic versus open colorectal surgery vary among pathologies	2009	Gastroenterology	Barleben, A. and Magno, C.P. and Gandhi, D. and Mills, S. and Lane, J.S. and Stamos, M.J.	Exclude	Conference Abstract Only

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Different strokes for different folks: Trends in elective surgery for diverticular disease	2018	Dis Colon Rectum	Batra, R. and Fuglestad, M. and Hall, B.R. and Luo, J. and Leinicke, J. and Langenfeld, S.	Exclude	Conference Abstract Only
Surgical techniques in the management of rectal cancer: a modified Delphi method by colorectal surgeons in Australia and New Zealand.	2019	Tech Coloproctol	Bell SW and Heriot AG and Warriar SK and Farmer CK and Stevenson ARL and Bissett I and Kong JC and Solomon M	Include	
Population demographics in geographic proximity to hospitals with robotic platforms do not correlate with disparities in access to robotic surgery	2020	Surg Endosc	Bingmer, Katherine; Kazimi, Maher; Wang, Victoria; Ofshteyn, Asya; Steinhagen, Emily; Stein, Sharon L;	Exclude	Did not compare utilization, only presence of hospitals with robotics
Predictors of Utilization and Quality Assessment in Robotic Rectal Cancer Resection: A Review of the National Cancer Database.	2017	Am Surg	Buonpane C and Efiog E and Hunsinger M and Fluck M and Shabahang M and Wild J and Halm K and Long K and Buzas C and Blansfield J	Include	
Disparity in use of laparoscopy for colon cancer in England	2009	Colorectal Dis	Burns, E. and Aylin, P. and Kennedy, R.H. and Hanna, G. and Faiz, O.	Exclude	No comparison for robotic surgery
Current status of robotic colorectal surgery in Australasia: A questionnaire survey of consultant members of the CSSANZ	2019	Dis Colon Rectum	Buxey, K.N. and Newstead, G. and Lam, F.	Exclude	Conference Abstract Only
Inequalities in Implementation and Different Outcomes During the Growth of Laparoscopic Colorectal Cancer Surgery in England: A National Population-Based Study from 2002 to 2012.	2018	World J Surg	Byrne BE and Vincent CA and Faiz OD	Exclude	No comparison for robotic surgery

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Effect of academic status on outcomes of surgery for rectal cancer.	2018	Surg Endosc	Cagino K and Altieri MS and Yang J and Nie L and Talamini M and Spaniolas K and Denoya P and Pryor A	Exclude	No comparison for robotic surgery
Racial and Socioeconomic Disparities in the Surgical Management and Outcomes of Patients with Colorectal Carcinoma.	2019	World J Surg	Cairns AL and Schlottmann F and Strassle PD and Di Corpo M and Patti MG	Exclude	No comparison for robotic surgery
Utilization of laparoscopy in colorectal surgery for cancer at academic medical centers: does site of surgery affect rate of laparoscopy?	2011	Am Surg	Carmichael JC and Masoomi H and Mills S and Stamos MJ and Nguyen NT	Exclude	No comparison for robotic surgery
A national analysis of surgical and minimally invasive treatment patterns for early stage invasive rectal adenocarcinoma from 2004 to 2015	2019	Dis Colon Rectum	Cheng, D. and Bardakcioglu, O. and St Hill, C. and Chan, C. and Kirgan, D.	Exclude	Conference Abstract Only
Trends in the diffusion of robotic surgery in prostate, uterus, and colorectal procedures: a retrospective population-based study	2021	J Robot Surg	Chung, Gary; Hinoul, Piet; Coplan, Paul; Yoo, Andrew;	Include	
The volume-outcome relationship in robotic proctectomy: does center volume matter? Results of a national cohort study.	2020	Surg Endosc	Concors SJ and Murken DR and Hernandez PT and Mahmoud NN and Paulson EC	Include	
How Is Rectal Cancer Managed: a Survey Exploring Current Practice Patterns in Canada.	2019	J Gastrointest Cancer	Crawford A and Firtell J and Caycedo-Marulanda A	Exclude	No comparison for robotic surgery
Examination of Racial Disparities in the Receipt of Minimally Invasive Surgery Among a National Cohort of	2016	Dis Colon Rectum	Damle RN and Flahive JM and Davids JS and Maykel JA and Sturrock PR and Alavi K	Include	

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Adult Patients Undergoing Colorectal Surgery.					
Diffusion of technology: Trends in robotic-assisted colorectal surgery	2016	Dis Colon Rectum	Damle, A. and Damle, R. and Ma, D. and Flahive, J. and Davids, J. and Sturrock, P. and Maykel, J. and Alavi, K.	Exclude	Conference Abstract Only
A new look at the volume and outcome relationship in surgery for colorectal cancer	2013	Dis Colon Rectum	Damle, R. and Macomber, C. and Flahive, J. and Maykel, J. and Sturrock, P. and Sweeney, W. and Santry, H. and Alavi, K.	Exclude	Conference Abstract Only
Robotic rectal cancer surgery offers significant benefits over the laparoscopic technique	2015	Gut	Day, A. and Tilney, H. and Gudgeon, M.	Exclude	Conference Abstract Only
Association of Medicaid Expansion with Diagnosis and Management of Colon Cancer.	2021	J Am Coll Surg	Diehl TM and Abbott DE	Exclude	No comparison for robotic surgery
Socioeconomic status and gender are associated with inequalities in surgical treatment and short-term outcomes in patients with non-metastatic colorectal cancer	2013	Gastroenterology	Dik, V.K. and Aarts, M.J. and Lemmens, V. and Siersema, P.D.	Exclude	Conference Abstract Only
Socioeconomic status is associated with inequalities in surgical treatment and short-term outcomes in patients with non-metastatic colorectal cancer	2013	Gastroenterology	Dik, V.K. and Aarts, M.J. and Lemmens, V.E. and Siersema, P.D.	Exclude	Conference Abstract Only

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The effect of formal robotic residency training on the adoption of minimally invasive surgery by young colorectal surgeons	2018	J Surg Educ	Disbrow, David E; Pannell, Stephanie M; Shanker, Beth-Ann; Albright, Jeremy; Wu, Juan; Bastawrous, Amir; Soliman, Mark; Ferraro, Jane; Cleary, Robert K;	Exclude	Program evaluation
Neighborhood Variation in the Utilization of Laparoscopy for the Treatment of Colon Cancer.	2016	Dis Colon Rectum	Doumouras AG and Saleh F and Eskicioglu C and Amin N and Cadeddu M and Hong D	Exclude	No comparison for robotic surgery
The effect of distance from an MIS training center on the utilization of laparoscopy for colorectal cancer	2016	Surg Endosc	Doumouras, A. and Saleh, F. and Tsao, M. and Hong, D.	Exclude	Conference Abstract Only
Laparoscopic partial colectomy is the most cost effective surgical approach to patients with colon cancer	2019	Gastroenterology	Eguia, E. and Sweigert, P. and Eberhardt, J. and Singer, M. and Afshar, M. and Kuo, P.A.U.L. and Baker, M.S.	Exclude	Conference Abstract Only
Racial disparities and treatment outcomes among patients admitted with a diagnosis of colorectal cancer: Analysis of the 2014 national inpatient sample database	2019	J. Clin. Oncol.	Enofe, I. and Rai, M.P. and Osaghae, O.	Exclude	Conference Abstract Only
Facility-level analysis of robot utilization across disciplines in the National Cancer Database.	2019	J Robot Surg	Fantus RJ and Cohen A and Riedinger CB and Kuchta K and Wang CH and Yao K and Park S	Include	
Laparoscopic versus robotic rectal resection for rectal cancer in a veteran population	2013	Am J Surg	Fernandez, Ramiro; Anaya, Daniel A; Li, Linda T; Orcutt, Sonia T; Balentine, Courtney J; Awad, Samir A; Berger, David H; Albo, Daniel A; Artinyan, Avo;	Include	

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Laparoscopic colectomy for the treatment of cancer has been widely adopted in the United States.	2012	Dis Colon Rectum	Fox J and Gross CP and Longo W and Reddy V	Exclude	No comparison for robotic surgery
With widespread adoption of MIS colectomy for colon cancer, does hospital type matter?	2019	Surg Endosc	Freischlag K and Adam M and Turner M and Watson J and Ezekian B and Schroder PM and Mantyh C and Migaly J	Exclude	No comparison for robotic surgery
National disparities in minimally invasive surgery for rectal cancer.	2016	Surg Endosc	Gabriel E and Thirunavukarasu P and Al-Sukhni E and Attwood K and Nurkin SJ	Include	
National disparities in minimally invasive surgery for colorectal cancer	2015	Ann Surg Oncol	Gabriel, E. and Thirunavukarasu, P. and Attwood, K. and Kuvshinoff, B.W. and Hochwald, S. and Nurkin, S.J.	Exclude	Conference Abstract Only
The effect of surgical approach on the use of adjuvant chemotherapy following low anterior resection for rectal cancer	2014	Gastroenterology	Ganapathi, A.M. and Englum, B.R. and Speicher, P.J. and Castleberry, A. and Thacker, J.K. and Mantyh, C.R. and Migaly, J.	Exclude	Conference Abstract Only
Racial and Ethnic Disparities in the Surgical Management and Outcomes of Colorectal Cancer in the Non-elective Setting	2021	ProQuest Dissertations and Theses	Grant, Heather Margaret and Rodday, Angie Mae	Exclude	No comparison for robotic surgery
Disparities in management and outcomes of young adults with colorectal cancer	2015	Gastroenterology	Gray, D.M. and Hussan, H. and Hinton, A. and Stanich, P.P.	Exclude	Conference Abstract Only

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Disparities in the Utilization of Laparoscopic Surgery for Colon Cancer in Rural Nebraska: A Call for Placement and Training of Rural General Surgeons.	2015	J Rural Health	Gruber K and Soliman AS and Schmid K and Rettig B and Ryan J and Watanabe-Galloway S	Exclude	No comparison for robotic surgery
Robotic-assisted colorectal surgery in the United States: a nationwide analysis of trends and outcomes	2013	World J Surg	Halabi, Wissam J; Kang, Celeste Y; Jafari, Mehraneh D; Nguyen, Vinh Q; Carmichael, Joseph C; Mills, Steven; Stamos, Michael J; Pigazzi, Alessio;	Include	
Comparison of minimally invasive and open proctectomy for rectal adenocarcinoma: A NSQIP analysis of postoperative and short term oncologic outcomes	2018	Dis Colon Rectum	Hanna, M. and Al-Mazrou, A.M. and Kiran, R.P.	Exclude	Conference Abstract Only
Disparities in the utilization of laparoscopic colectomy from 2000 through 2005	2009	Dis Colon Rectum	Hardiman, K. and Lanxon-Cookson, K. and Morris, M. and Diggs, B. and Sheppard, B. and Herzig, D.	Exclude	Conference Abstract Only
Barriers to laparoscopic colon resection for cancer: a national analysis.	2018	Surg Endosc	Hawkins AT and Ford MM and Benjamin Hopkins M and Muldoon RL and Wanderer JP and Parikh AA and Geiger TM	Exclude	No comparison for robotic surgery
Association Between Medicaid Expansion and Diagnosis and Management of Colon Cancer.	2021	J Am Coll Surg	Hoehn RS and Rieser CJ and Phelos H and Sabik LM and Nassour I and Paniccia A and Zureikat AH and Tohme ST	Exclude	No comparison for robotic surgery

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Uptake of elective laparoscopic colectomy for colon cancer in Canada from 2004/05 to 2014/15: a descriptive analysis.	2018	CMAJ Open	Hoogerboord CM and Levy AR and Hu M and Flowerdew G and Porter G	Exclude	Conference Abstract Only
Patient Factors Limit Colon Cancer Survival at Safety-Net Hospitals: A National Analysis.	2021	J Surg Res	Hrebinko KA and Rieser C and Nassour I and Tohme S and Sabik LM and Khan S and Medich DS and Zureikat AH and Hoehn RS	Exclude	No comparison for robotic surgery
Underutilization of laparoscopy surgery for elective colon resection in texas	2018	Dis Colon Rectum	Hughes, B.D. and Shan, Y. and Amirkhosravi, F. and Mehta, H.B. and Senagore, A.	Exclude	Conference Abstract Only
Professional networks and the alignment of individual perceptions about medical innovation	2018	Health Care Manage Rev	Iacopino, Valentina; Mascia, Daniele; Cicchetti, Americo;	Exclude	No comparison specific to colorectal surgeries
Emergent colectomy for colorectal cancer: A comparative analysis of open vs. minimally invasive approach	2020	Dis Colon Rectum	Jecius, H. and Krall, E. and Tso, D. and Hanna, K. and Hamidi, M. and Nfonsam, V.	Exclude	Conference Abstract Only
Disparities in Robotic Colorectal Surgery: A National Surgical Quality Improvement Program Study	2020	J Am Coll Surg	Jochum, S.B. and King-Mullins, E.M. and Ritz, E.M. and Govekar, H.R. and Bhamra, A.R. and Saclarides, T.J. and Hayden, D.M.	Exclude	Conference Abstract Only
The impact of socioeconomic status on the surgical treatment of rectal cancer at community versus academic centers: A national cancer database study	2019	Dis Colon Rectum	Johnson, K.	Exclude	Conference Abstract Only
Robotic versus laparoscopic surgery for rectal cancer: An analysis of the nationwide inpatient sample (NIS) database	2016	Ann Surg Oncol	Julien, M. and Shabahang, M. and Blansfield, J. and Halm, K. and Long, K.	Exclude	Conference Abstract Only

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Diffusion of robotic-assisted laparoscopic technology across specialties: a national study from 2008 to 2013	2018	Surg Endosc	Juo, Yen-Yi; Mantha, Aditya; Abiri, Ahmad; Lin, Anne; Dutson, Erik;	Exclude	No comparison specific to colorectal surgeries
Is the robot worth it? A population-based analysis of 90-day cost & hospital utilization for robotic surgery in colon & rectal cancer	2018	Dis Colon Rectum	Justiniano, C.F. and Becerra, A.Z. and Xu, Z. and Aquina, C.T. and Boodry, C. and Schymura, M.J. and Boscoe, F.P. and Noyes, K. and Temple, L.K. and Fleming, F.	Exclude	Conference Abstract Only
The Trends in Adoption, Outcomes, and Costs of Laparoscopic Surgery for Colorectal Cancer in the Elderly Population.	2021	J Gastrointest Surg	Keller DS and de Paula TR and Qiu J and Kiran RP	Exclude	No comparison for robotic surgery
Predicting opportunities to increase utilization of laparoscopy for colon cancer.	2017	Surg Endosc	Keller DS and Parikh N and Senagore AJ	Exclude	No comparison for robotic surgery
Predicting opportunities to increase utilization of laparoscopy for rectal cancer.	2018	Surg Endosc	Keller DS and Qiu J and Senagore AJ	Exclude	No comparison for robotic surgery
Trends and outcomes of robotic surgery for gastrointestinal (GI) cancers in the USA: maintaining perioperative and oncologic safety.	2020	Surg Endosc	Konstantinidis IT and Ituarte P and Woo Y and Warner SG and Melstrom K and Kim J and Singh G and Lee B and Fong Y and Melstrom LG	Include	
Rapid rise of robotic surgery in gastrointestinal (GI) malignancies: Are we maintaining perioperative and oncologic safety?	2018	Ann Surg Oncol	Konstantinidis, I. and Woo, Y. and Warner, S. and Melstrom, K. and Kim, J. and Singh, G. and Fong, Y. and Melstrom, L.G.	Exclude	Conference Abstract Only

Title	Year	Journal	Authors	Include or Exclude?	Exclusion Reason
Trends and outcomes of surgical treatment for colorectal cancer between 2004 and 2012-an analysis using national inpatient database	2017	Sci Rep	Lee, Meng-Tse Gabriel; Chiu, Chong-Chi; Wang, Chia-Chun; Chang, Chia-Na; Lee, Shih-Hao; Lee, Matthew; Hsu, Tzu-Chun; Lee, Chien-Chang;	Include	
Hand-Assisted Laparoscopic Colectomy Improves Perioperative Outcomes Without Increasing Operative Time Compared to the Open Approach: a National Analysis of 8791 Patients.	2017	J Gastrointest Surg	Leraas HJ and Ong CT and Sun Z and Adam MA and Kim J and Gilmore BF and Ezekian B and Nag US and Mantyh CR and Migaly J	Exclude	No comparison for robotic surgery
Multidisciplinary team management of colorectal cancer is associated with increased rates of laparoscopic resection	2011	Surg Endosc	Levine, R.A. and Wasvary, H.	Exclude	Conference Abstract Only
Do specific operative approaches and insurance status impact timely access to colorectal cancer care?	2021	Surg Endosc	Lo BD and Zhang GQ and Stem M and Sahyoun R and Efron JE and Safar B and Atallah C	Include	
Regional Variation in Laparoscopy Use for Elective Colon Cancer Treatment in Canada: The Importance of Fellowship Training Sites.	2021	Dis Colon Rectum	Logie K and Doumouras AG and Springer JE and Eskicioglu C and Hong D	Exclude	No comparison for robotic surgery
Trends in the diffusion of robotic surgery: A retrospective observational study	2017	Int J Med Robot	Marcus, Hani J; Hughes-Hallett, Archie; Payne, Christopher J; Cundy, Thomas P; Nandi, Dipankar; Yang, Guang-Zhong; Darzi, Ara;	Exclude	No comparison specific to colorectal surgeries
Hospital Minimally Invasive Surgery Utilization for Gastrointestinal Cancer.	2018	Ann Surg	Mason MC and Tran Cao HS and Awad SS and Farjah F and Chang GJ and Massarweh NN	Exclude	Evaluated trends, but no comparisons attributed to patient,

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					provider/surgeon, or hospital factors
Comparison of 30-day postoperative outcomes after laparoscopic vs robotic colectomy	2016	J Am Coll Surg	Miller, Peter E; Dao, Haisar; Paluvoi, Nivedh; Bailey, Matthew; Margolin, David; Shah, Nishit; Vargas, HD;	Include	
Robotic versus laparoscopic colectomy for stage I-III colon cancer: oncologic and long-term survival outcomes.	2018	Surg Endosc	Mirkin KA and Kulaylat AS and Hollenbeak CS and Messaris E	Include	
Colorectal liver metastases management in the Veterans Health Administration: Geographic disparity	2016	J. Clin. Oncol.	Mobarek, D.A. and Visser, B.C. and Krasnow, S. and Chang, J.W. and Nechodom, P. and DuVall, S.L.	Exclude	Conference Abstract Only
Variations in Laparoscopic Colectomy Utilization in the United States.	2015	Dis Colon Rectum	Moghadamyeghaneh Z and Carmichael JC and Mills S and Pigazzi A and Nguyen NT and Stamos MJ	Exclude	No comparison for robotic surgery
Variations in laparoscopic colectomy utilization in different hospitals in the United States	2015	Dis Colon Rectum	Moghadamyeghaneh, Z. and Carmichael, J. and Mills, S. and Pigazzi, A. and Stamos, M.	Exclude	Conference Abstract Only
Outcomes of open, laparoscopic, and robotic abdominoperineal resections in patients with rectal cancer	2015	Dis Colon Rectum	Moghadamyeghaneh, Zhobin; Phelan, Michael; Smith, Brian R; Stamos, Michael J;	Include	

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Rectal cancer in the young: analysis of contributing factors and surgical outcomes.	2019	J Gastrointest Oncol	Mogor O and Ewongwo A and Ojameruaye O and Pandit V and Omesiete P and Martinez C and Hsu P and Scott A and Elquza E and Nfonsam V	Exclude	No comparison for robotic surgery
Changing trends in rectal cancer surgery in Ontario: 2002-2009.	2012	Colorectal Dis	Musselman RP and Gomes T and Chan BP and Auer RC and Moloo H and Mamdani M and Al-Omran M and Al-Obeed O and Boushey RP	Exclude	No comparison for robotic surgery
The adoption of laparoscopic techniques in the management of emergency colorectal surgery: A population-based study	2012	Dis Colon Rectum	Musselman, R. and Gomes, T. and Chan, B. and Auer, R. and Moloo, H. and Al-Omran, M. and Al-Obeed, O. and Boushey, R.	Exclude	Conference Abstract Only
Laparoscopic vs. open surgery for rectal cancer.A NSQIP analysis	2010	Ann Surg Oncol	Nurkin, S. and Kakarla, R. and Ruiz, D. and Jeganathan, R. and Turner, J. and Tiszenkel, H.	Exclude	Conference Abstract Only
Robotic proctectomy for rectal cancer in the US: a skewed population.	2020	Surg Endosc	Ofshteyn A and Bingmer K and Towe CW and Steinhagen E and Stein SL	Include	
Robotic surgery in the us: A skewed population	2019	Surg. Endosc.	Ofshteyn, A. and Bingmer, K. and Towe, C.W. and Steinhagen, E. and Stein, S.L.	Exclude	Conference Abstract Only

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Influence of surgeon specialty and volume on the utilization of minimally invasive surgery and outcomes for colorectal cancer: a retrospective review.	2020	Surg Endosc	Osagiede O and Haehn DA and Spaulding AC and Otto N and Cochuyt JJ and Lemini R and Merchea A and Kelley S and Colibaseanu DT	Exclude	No comparison for robotic surgery
Trends in the Use of Laparoscopy and Robotics for Colorectal Cancer in Florida.	2019	J Laparoendosc Adv Surg Tech A	Osagiede O and Spaulding AC and Cochuyt JJ and Naessens J and Merchea A and Colibaseanu DT	Include	
Factors Associated With Minimally Invasive Surgery for Colorectal Cancer in Emergency Settings.	2019	J Surg Res	Osagiede O and Spaulding AC and Cochuyt JJ and Naessens JM and Merchea A and Crandall M and Colibaseanu DT	Exclude	No comparison for robotic surgery
Disparities in minimally invasive surgery for colorectal cancer in Florida.	2019	Am J Surg	Osagiede O and Spaulding AC and Cochuyt JJ and Naessens JM and Merchea A and Kasi PM and Crandall M and Colibaseanu DT	Exclude	No comparison for robotic surgery
The determinants of minimally invasive surgery for colorectal cancer in emergency versus elective settings	2019	Dis Colon Rectum	Osagiede, O. and Spaulding, A. and Cochuyt, J. and Naessens, J. and Merchea, A. and Crandall, M. and Colibaseanu, D.	Exclude	Conference Abstract Only
Minimally invasive colorectal surgery in the morbid obese: does size really matter?	2018	Surg Endosc	Panteleimonitis, Sofoklis; Popeskou, Sotirios; Harper, Mick; Kandala, Ngianga; Figueiredo, Nuno; Qureshi, Tahseen; Parvaiz, Amjad;	Include	

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Trends in utilization, conversion rates, and outcomes for minimally invasive approaches to non-metastatic rectal cancer: a national cancer database analysis.	2021	Surg Endosc	Parascandola SA and Hota S and Sparks AD and Boulos S and Cavallo K and Kim G and Obias V	Include	
Management of colon cancer at an urban veterans' affairs system: Does race impact surgical options and outcomes?	2017	J Am Coll Surg	Pate, A. and Kwong, C. and Martinez, M. and Webb, H. and Martin, T.R.	Exclude	Conference Abstract Only
Association of hospital factors and socioeconomic status with the utilization of minimally invasive surgery for colorectal cancer over a decade.	2021	Surg Endosc	Patel R and Pant K and Patel KS and Merchant AM and Alvarez-Downing MM	Exclude	No comparison for robotic surgery
Location matters: Factors associated with access to robotic surgery for rectal cancer	2014	J Am Coll Surg	Probst, C.P. and Aquina, C.T. and Kelly, K.N. and Noyes, K. and Fleming, F. and Monson, J.R.T..	Exclude	Conference Abstract Only
Treatment reality with respect to laparoscopic surgery of colonic cancer in Germany.	2014	Chirurg	Ptok H and Gastinger I and Bruns C and Lippert H	Exclude	Not in English
Association of rurality and race with surgical treatment and outcomes for nonmetastatic colon cancer	2021	J. Clin. Oncol.	Ramkumar, N. and Colla, C. and Wong, S.L. and Wang, Q. and Brooks, G.A.	Exclude	Conference Abstract Only
Patient, Hospital, and Geographic Disparities in Laparoscopic Surgery Use Among Surveillance, Epidemiology, and End Results-Medicare Patients With Colon Cancer.	2017	Dis Colon Rectum	Ratnapradipa KL and Lian M and Jeffe DB and Davidson NO and Eberth JM and Pruitt SL and Schootman M	Exclude	No comparison for robotic surgery
Utilization of laparoscopic colectomy in the United States before and after	2011	Ann Surg	Rea JD and Cone MM and Diggs BS and Deveney KE and Lu KC and Herzig DO	Exclude	No comparison for robotic surgery

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the clinical outcomes of surgical therapy study group trial.					
Utilization of laparoscopic colectomy in the United States before and after the Clinical Outcomes of Surgical Therapy (COST) study group trial	2010	Dis Colon Rectum	Rea, J. and Cone, M. and Diggs, B. and Deveney, K. and Lu, K. and Herzig, D.	Exclude	Conference Abstract Only
Geographic variation in use of laparoscopic colectomy for colon cancer.	2014	J Clin Oncol	Reames BN and Sheetz KH and Waits SA and Dimick JB and Regenbogen SE	Exclude	No comparison for robotic surgery
Healthcare disparities exist in laparoscopic colectomy for colon cancer	2011	Ann Surg Oncol	Robinson, C.N. and Sansgiry, S. and Balentine, C.J. and Marshall, C.L. and Tewani, S. and Anaya, D.A. and Artinyan, A. and Albo, D. and Berger, D.H.	Exclude	Conference Abstract Only
Disparities in the use of minimally invasive surgery for colorectal disease	2012	J Gastrointest Surg	Robinson, Celia N; Balentine, Courtney J; Sansgiry, Shubhada; Berger, David H;	Exclude	No comparison for robotic surgery
Colon Cancer Surgery: A Retrospective Study Based on a Large Administrative Database.	2016	Surg Laparosc Endosc Percutan Tech	Saia M and Buja A and Mantoan D and Agresta F and Baldo V	Exclude	Conference Abstract Only
Isolated rectal cancer surgery: a 2007-2014 population study based on a large administrative database.	2017	Updates Surg	Saia M and Buja A and Mantoan D and Sartor G and Agresta F and Baldo V	Exclude	No comparison for robotic surgery

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The disparity of care and outcomes for medicaid patients undergoing colectomy	2019	J Surg Res	Sastow, Dahniel L; White, Robert S; Mauer, Elizabeth; Chen, Yuefan; Gaber-Baylis, Licia K; Turnbull, Zachary A;	Include	
Inequalities in access to minimally invasive general surgery: a comprehensive nationwide analysis across 20 years.	2020	Surg Endosc	Schneider MA and Gero D and MÅ¼aller M and Horisberger K and Rickenbacher A and Turina M	Exclude	No comparison for robotic surgery
Differences in effectiveness and use of robotic surgery in patients undergoing minimally invasive colectomy	2017	J Gastrointest Surg	Schootman, M; Hendren, S; Loux, T; Ratnapradipa, K; Eberth, JM; Davidson, NO;	Include	
Adoption of robotic technology for treating colorectal cancer	2016	Dis Colon Rectum	Schootman, Mario; Hendren, Samantha; Ratnapradipa, Kendra; Stringer, Lisa; Davidson, Nick O;	Exclude	Focused on offering robotic surgery or having robotic surgery technology instead of utlization of robotic surgery
National disparities in use of minimally invasive surgery for rectal cancer in older adults	2021	J Am Geriatr Soc	Simon, Hillary L; Reif de Paula, Thais; Spigel, Zachary A; Keller, Deborah S;	Include	
Utilization of minimally invasive versus open colectomy for colon cancer and perioperative/short-term oncologic outcomes: Are we there yet?	2017	J. Clin. Oncol.	Smith, J.K. and Esnaola, N.F.	Exclude	Conference Abstract Only

Title	Year	Journal	Authors	Include or Exclude?	Exclusion Reason
Laparoscopic colectomy for colon cancer in the elderly: Analysis of risk, perioperative outcomes, and cost	2014	Dis Colon Rectum	Sneider, E. and Cherng, N. and Damle, R. and Baldor, D. and Sturrock, P. and Maykel, J. and Davids, J. and Sweeney, W. and Alavi, K.	Exclude	Conference Abstract Only
Hospital robotic use for colorectal cancer care.	2021	J Robot Surg	Spaulding AC and Hamadi H and Osagiede O and Lemini R and Cochuyt JJ and Watson J and Naessens JM and Colibaseanu DT	Include	
Regional Variation in the Utilization of Laparoscopy for the Treatment of Rectal Cancer: The Importance of Fellowship Training Sites.	2020	Ann Surg Oncol	Springer JE and Doumouras AG and Eskicioglu C and Hong D	Exclude	No comparison for robotic surgery
Regional variation in the utilization of laparoscopy for the treatment of rectal cancer: The importance of fellowship training sites	2019	Dis Colon Rectum	Springer, J.E. and Doumouras, A. and Amin, N. and Cadeddu, M. and Eskicioglu, C. and Hong, D.	Exclude	Conference Abstract Only
Laparoscopic vs open colectomy for colon cancer: results from a large nationwide population-based analysis.	2008	J Gastrointest Surg	Steele SR and Brown TA and Rush RM and Martin MJ	Exclude	No comparison for robotic surgery
The impact of practice environment on laparoscopic colectomy utilization following colorectal residency: a survey of the ASCRS Young Surgeons.	2012	Colorectal Dis	Steele SR and Stein SL and Bordeianou LG and Johnson E and Herzig DO and Champagne BJ	Exclude	No comparison for robotic surgery

Title	Year	Journal	Authors	Include or Exclude?	Exclusion Reason
Robotic surgery trends in general surgical oncology from the National Inpatient Sample	2019	Surg Endosc	Stewart, Camille L; Ituarte, Philip HG; Melstrom, Kurt A; Warner, Susanne G; Melstrom, Laleh G; Lai, Lily L; Fong, Yuman; Woo, Yanghee;	Exclude	No comparison for robotic surgery
Laparoscopic versus open abdominoperineal resection for rectal cancer: Is there a short-term advantage in complication rates with a minimally invasive approach?	2011	Gastroenterology	Stewart, D.B. and Hollenbeak, C.S. and Boltz, M.M.	Exclude	Conference Abstract Only
National utilization of laparoscopic and robotic-assisted surgery for rectal cancer: An analysis of recent trends	2013	Dis Colon Rectum	Stone, A. and Finlayson, S. and Holubar, S.	Exclude	Conference Abstract Only
National utilization of minimally invasive surgery for colon resection: An analysis of recent trends	2012	Surg Endosc	Stone, A.H. and Holubar, S. and Finlayson, S.	Exclude	Conference Abstract Only
Defining the Role of Minimally Invasive Proctectomy for Locally Advanced Rectal Adenocarcinoma.	2017	Ann Surg	Sujatha-Bhaskar S and Jafari MD and Gahagan JV and Inaba CS and Koh CY and Mills SD and Carmichael JC and Stamos MJ and Pigazzi A	Include	
Quality and Location of the Surgical Episode Mediate a Large Proportion of Socioeconomic-Based Survival Disparities in Patients with Resected Stage I-III Colon Cancer.	2021	Ann Surg Oncol	Swords DS and Bednarski BK and Messick CA and Tillman MM and Chang GJ and You YN	Exclude	No comparison for robotic surgery
The relationship between race and established risk factors for the delay of adjuvant therapy in rectal cancer	2018	Dis Colon Rectum	Talukder, A. and Young, M. and Hooks, V.H. and Mitchell, A.B. and Albo, D. and King, R.	Exclude	Conference Abstract Only

Title	Year	Journal	Authors	Include or Exclude?	Exclusion Reason
Laparoscopic resection of colorectal carcinoma: A comparative study of an initial experience	2017	Chirurgia	Tatulli, F. and Caputi, A. and Caraglia, A. and Notarnicola, A. and Carbone, F. and Chetta, N. and Ruggieri, T. and Chetta, G.	Exclude	No comparison for robotic surgery
Robotic vs. Laparoscopic rectal resection for rectal adenocarcinoma Åç : A nationwide analysis of surgical outcomes	2015	Surg Endosc	Thirun, P. and Gabriel, E. and Nurkin, S.J.	Exclude	Conference Abstract Only
Uptake of laparoscopic resection for colorectal cancer in Queensland, 1999/2000 to 2007/2008	2009	Asia Pac J Clin Oncol	Thompson, B. and Coory, M. and Lumley, J.	Exclude	Conference Abstract Only
Minimally invasive surgery: national trends in adoption and future directions for hospital strategy	2013	Surg Endosc	Tsui, Charlotte; Klein, Rachel; Garabrant, Matthew;	Exclude	No comparison specific to colorectal surgeries
Insurance status, not race, is associated with use of minimally invasive surgical approach for rectal cancer	2017	Ann. Surg.	Turner, M. and Adam, M.A. and Sun, Z. and Kim, J. and Ezekian, B. and Yerokun, B. and Mantyh, C. and Migaly, J.	Exclude	No comparison for robotic surgery
Cost analysis of laparoscopic versus open colectomy in patients with colon cancer: results from a large nationwide population database.	2012	Am Surg	Vaid S and Tucker J and Bell T and Grim R and Ahuja V	Exclude	No comparison for robotic surgery
Racial disparity in short-term outcomes after colon resection for cancer - A NSQIP analysis	2015	Dis Colon Rectum	Venkat, R. and Choudhury, N. and Nfonsam, V.	Exclude	Conference Abstract Only
Minimally Invasive Surgery for Colorectal Cancer: Hospital Type Drives Utilization and Outcomes.	2020	J Surg Res	Villano AM and Zeymo A and Houlihan BK and Bayasi M and Al-Refaie WB and Chan KS	Include	

Title	Year	Journal	Authors	Include or Exclude?	Exclusion Reason
Inpatient mortality, healthcare resource utilization, and complications of elective laparoscopic versus open colectomy in colon cancer patients: A nationwide inpatient sample analysis	2020	J. Clin. Oncol.	Vohra, I. and Katiyar, V. and Attar, B. and Lingamaneni, P. and Moturi, K.R. and Singh, S.R.K. and Malapati, S.J. and Farooq, M.Z. and Gupta, S.	Exclude	Conference Abstract Only
National trends and disparities of minimally invasive surgery for localized renal cancer, 2010 to 2015	2019	Urol Oncol	Xia, Leilei; Talwar, Ruchika; Taylor, Benjamin L; Shin, Michael H; Berger, Ian B; Sperling, Colin D; Chelluri, Raju R; Zambrano, Ibaro A; Raman, Jay D; Guzzo, Thomas J;	Exclude	No comparison specific to colorectal surgeries
Incidence of minimally invasive colorectal cancer surgery at National Comprehensive Cancer Network centers.	2015	J Natl Cancer Inst	Yeo H and Niland J and Milne D and ter Veer A and Bekaii-Saab T and Farma JM and Lai L and Skibber JM and Small W Jr and Wilkinson N and Schrag D and Weiser MR	Exclude	No comparison for robotic surgery
Comparison of open, laparoscopic, and robotic colectomies using a large national database: outcomes and trends related to surgery center volume	2016	Diseases of the Colon & Rectum	Yeo, Heather L; Isaacs, Abby J; Abelson, Jonathan S; Milsom, Jeffrey W; Sedrakyan, Art;	Include	
Trends in uptake of minimally invasive surgery for colorectal cancer resection: A bi-national perspective	2019	Dis Colon Rectum	Zhu, K.J. and Kong, J.C. and Bell, S. and Warriar, S.	Exclude	Conference Abstract Only