

## Publications

### 2021

1. Boet S, Etherington N, Lam S, Lê M, Proulx L, Britton M, Kenna J, Przybylak-Brouillard A, Grimshaw J, **Grantcharov TP**, Singh S. (2021). [Implementation of the Operating Room Black Box Research Program at the Ottawa Hospital Through Patient, Clinical, and Organizational Engagement: Case Study](#). *Journal of Medical Internet Research*, March 23(3): e15443.
2. Gallant JN, Brelsford K, **Sharma S**, **Grantcharov TP**, Langerman A. (2021). [Patient Perceptions of Audio and Video Recording in the Operating Room](#). *Annals of Surgery*, January doi 10.1097/SLA.0000000000004759 (e-publication).
3. Levin M, McKechnie T, Kruse CC, Aldrich K, **Grantcharov TP**, Langerman A. (2021). [Surgical data recording in the operating room: a systematic review of modalities and metrics](#). *British Journal of Surgery*, May doi <https://doi.org/10.1093/bjs/znab016> (e-publication).
4. **Saun TJ**, **Grantcharov TP**. (2021). [Development of the User Experience \(UX\) and Video Quality Evaluation \(VQE\) Instruments for Assessment of Intraoperative Video Capture Technology](#). *Journal of Surgical Education*, January-February 78(1):201-206.
5. Soenens G, Doyen B, Vlerick P, Vermassen F, **Grantcharov TP**, Van Herzeele I. (2021). [Assessment of Endovascular Team Performances Using a Comprehensive Data Capture Platform in the Hybrid Room: A Pilot Study](#). *European Journal of Vascular and Endovascular Surgery*, March S1078-5884(21)00171-4.

6. van Dalen ASHM, van Haperen M, Swinkels JA, **Grantcharov TP**, Schijven MP. (2021).

[Development of a Model for Video-Assisted Postoperative Team Debriefing.](#) *Journal of Surgical Research*, January 257:625-635.

7. Yu N, Saadat H, Finelli A, Lee JY, Singal RK, **Grantcharov TP**, **Goldenberg M**. (2021). [Quantifying the "Assistant Effect" in Robotic-Assisted Radical Prostatectomy \(RARP\): Measures of Technical Performance.](#) *Journal of Surgical Research*, April doi 10.1016/j.jss.2020.11.037 (e-publication).

## 2020

1. Armstrong BA, Gordon L, Grantcharov TP, Palter VN. (2020). [The importance of feedback for surgical teams during the COVID-19 pandemic.](#) *British Journal of Surgery*, September 107(10):e410-e411.
2. Ayas S, Gordon L, Donmez B, Grantcharov TP. (2020). [The effect of intraoperative distractions on severe technical events in laparoscopic bariatric surgery.](#) *Surgical Endoscopy*, August doi 10.1007/s00464-020-07878-w (e-publication).
3. Boet S, Etherington N, Crnic A, Kenna J, Jung JJ, Cairns M, Posner G, Grantcharov TP. (2020). [La définition des moments critiques et non critiques en salle d'opération : une étude de consensus Delphi modifiée.](#) *Canadian Journal of Anesthesia*, August 67(8):949-958.
4. Doyen B, Gordon L, Soenens G, Bacher K, Vlerick P, Vermassen F, Grantcharov TP, Van Herzeele I. (2020). [Introduction of a surgical Black Box system in a hybrid angiosuite: Challenges and opportunities.](#) *Physica Medica*, August 76:77-84.
5. Gabrielli ME, Saun TJ, Jung JJ, Grantcharov TP. (2020). [Assessment of 3-Dimensional vs 2-Dimensional Imaging and Technical Performance Using a Multiport Intraoperative Data Capture and Analytic System for Patients Undergoing Laparoscopic Roux-en-Y Gastric Bypass Surgery.](#) *JAMA Network Open*, January 3(1):e1920084.
6. Garbens A, Armstrong BA, Louridas M, Tam F, Detsky AS, Schweizer TA, Graham SJ, Grantcharov TP. (2020). [Brain activation during laparoscopic tasks in high- and low-performing medical students: a pilot fMRI study.](#) *Surgical Endoscopy*, November 34(11):4837-4845.

7. Jung JJ, Elfassy J, Grantcharov TP. (2020). [Factors associated with surgeon's perception of distraction in the operating room.](#) *Surgical Endoscopy*, July 34(7):3169-3175.
8. Jung JJ, Jüni P, Gee DW, Zak Y, Cheverie J, Yoo JS, Morton JM, Grantcharov TP. (2020). [Development and Evaluation of a Novel Instrument to Measure Severity of Intraoperative Events Using Video Data.](#) *Annals of Surgery*, August 272(2):220-226.
9. Jung JJ, Jüni P, Lebovic G, Grantcharov TP. (2020). [First-year Analysis of the Operating Room Black Box Study.](#) *Annals of Surgery*, January 271(1):122-127.
10. Jung JJ, Yule S, Boet S, Szasz P, Schulthess P, Grantcharov TP. (2020). [Nontechnical Skill Assessment of the Collective Surgical Team Using the Non-Technical Skills for Surgeons \(NOTSS\) System.](#) *Annals of Surgery*, December 272(6):1158-1163.
11. Khalid S, Goldenberg M, Grantcharov TP, Taati B, Rudzicz F. (2020). [Evaluation of Deep Learning Models for Identifying Surgical Actions and Measuring Performance.](#) *JAMA Network Open*, March 3(3):e201664.
12. Kolodzey L, Trbovich P, Kashfi A, Grantcharov TP. (2020). [System Factors Affecting Intraoperative Risk and Resilience: Applying a Novel Integrated Approach to Study Surgical Performance and Patient Safety.](#) *Annals of Surgery*, December 272(6):1164-1170.
13. McKechnie T, Levin M, Zhou K, Freedman B, Palter VN, Grantcharov TP. (2020). [Virtual Surgical Training During COVID-19: Operating Room Simulation Platforms Accessible From Home.](#) *Annals of Surgery*, August 272(2):e153-e154.

14. **Nolan B**, Hicks CM, Petrosoniak A, Jung JJ, Grantcharov TP. (2020). [Pushing boundaries of video review in trauma: using comprehensive data to improve the safety of trauma care.](#) *Trauma Surgery & Acute Care Open*, July 5(1):e000510.
  
15. **Schulthess P**, Bohnen JD, Grantcharov TP, Palter VN. (2020). [The OR Black Box Nursing Education Curriculum: Using Video Review to Optimize Patient Safety.](#) *AORN Journal*, November 112(5):536-544.
  
16. **Sharma S**, Grantcharov TP, Jung JJ. (2020). [Non-technical skills and device-related interruptions in minimally invasive surgery.](#) *Surgical Endoscopy*, September doi 10.1007/s00464-020-07962-1 (e-publication).
  
17. van Dalen ASHM, **Goldenberg M**, Grantcharov TP, Schijven MP. (2020). [Assessing the team's perception on human factors in the operating environment.](#) *The American Journal of Surgery*, November doi 10.1016/j.amjsurg.2020.11.008 (e-publication).

## 2019

1. Adams-McGavin RC, Jung JJ, van Dalen ASHM, Grantcharov TP, Schijven MP. (2019). [System Factors Affecting Patient Safety in the OR: An Analysis of Safety Threats and Resiliency](#). *Annals of Surgery*, October doi <https://insights.ovid.com/pubmed?pmid=31592890> (e-publication).
2. Alsubaie H, Goldenberg M, Grantcharov TP. (2019). [Quantifying recall bias in surgical safety: a need for a modern approach to morbidity and mortality reviews](#). *Canadian Journal of Surgery*, February 62(1): 39-43.
3. Boet S, Etherington N, Larrigan S, Yin L, Khan H, Sullivan K, Jung JJ, Grantcharov TP. (2019). [Measuring the teamwork performance of teams in crisis situations: a systematic review of assessment tools and their measurement properties](#). *BMJ Quality & Safety*, April 28(4): 327–337.
4. Fecso AB, Bhatti JA, Stotland PK, Queresby FA, Grantcharov TP. (2018). [Technical Performance as a Predictor of Clinical Outcomes in Laparoscopic Gastric Cancer Surgery](#). *Annals of Surgery*, July 290(1): 115-120.
5. Goldenberg M, Grantcharov TP. (2019). [A Novel Method of Setting Performance Standards in Surgery Using Patient Outcomes](#). *Annals of Surgery*, January 269(1): 79–82.
6. Gordon L, Austin P, Rudzicz F, Grantcharov TP. (2019). [MySurgeryRisk and Machine Learning: A Promising Start to Real-time Clinical Decision Support](#). *Annals of Surgery*, January 269(1): e14-e15.
7. Gordon L, Bohnen JD, Grantcharov TP. (2019). [Valuations of Surgical Procedures in the Medicare Fee Schedule](#). *The New England Journal of Medicine*. July 381(4): 389-390.
8. Gordon L, Grantcharov TP, Rudzicz F. (2019). [Explainable Artificial Intelligence for Safe Intraoperative Decision Support](#). *JAMA Surgery*, November 154(11):1064-1065.

9. Jung JJ, Adams-McGavin RC, Grantcharov TP. (2019). [Underreporting of Veress Needle Injuries: Comparing Direct Observation and Chart Review Methods.](#) *Journal of Surgical Research*, April 236: 266–270.
10. Jung JJ, Elfassy J, Jüni P, Grantcharov TP. (2019). [Adverse Events in the Operating Room: Definitions, Prevalence, and Characteristics. A Systematic Review.](#) *World Journal of Surgery*, October 43(10): 2379-2392.
11. Jung JJ, Kashfi A, Sharma S, Grantcharov TP. (2019). [Characterization of device-related interruptions in minimally invasive surgery: need for intraoperative data and effective mitigation strategies.](#) *Surgical Endoscopy*, March 33(3): 717–723.
12. Khan AF, Macdonald MK, Streutker C, Rowsell C, Drake J, Grantcharov TP. (2019). [Defining the Relationship Between Compressive Stress and Tissue Trauma During Laparoscopic Surgery Using Human Large Intestine.](#) *IEEE Journal of Translational Engineering in Health and Medicine*, July 7:3300108.
13. Kolodzey L, Trbovich P, Kashfi A, Grantcharov TP. (2019). [System Factors Affecting Intraoperative Risk and Resilience: Applying a Novel Integrated Approach to Study Surgical Performance and Patient Safety.](#) *Annals of Surgery*, March doi <https://insights.ovid.com/pubmed?pmid=30946083> (e-publication).
14. Levin M, McKechnie T, Khalid S, Grantcharov TP, Goldenberg M. (2019). [Automated Methods of Technical Skill Assessment in Surgery: A Systematic Review.](#) *Journal of Surgical Education*, November-December 76(6):1629-1639.
15. Saun TJ, Zuo KJ, Grantcharov TP. (2019). [Video Technologies for Recording Open Surgery: A Systematic Review.](#) *Surgical Innovation*, October 26(5): 599-612.

16. Zevin B, Sheahan G, Ashamalla S, Dedy NJ, Jalink D, Grantcharov TP. (2019). [Implementation and evaluation of a comprehensive proficiency-based curriculum in an advanced, minimally invasive procedure: a multi-institutional Canadian experience.](#) *Surgery for Obesity and Related Diseases*, November 15(11):1956-1964.



## 2018

1. De Montbrun S, Louridas M, Szasz P, Harris KA, Grantcharov TP. (2018). [Developing the Blueprint for a General Surgery Technical Skills Certification Examination: A Validation Study](#). *Journal of Surgical Education*, March 75(2): 344-350.
2. Fecso AB, Kuzulugil SS, Babaoglu C, Bener AB, Grantcharov TP. (2018). [Relationship between intraoperative non-technical performance and technical events in bariatric surgery](#). *British Journal of Surgery*, March 105(8): 1044–1050.
3. Fecso AB, Szasz P, Kerezov G, Grantcharov TP. (2018). [Reply to: "Assessing Surgeons' Technical Performance and Effect on Outcomes: Still Early Days"](#). *Annals of Surgery*, April 267(4): e76.
4. Garbens A, Goldenberg M, Wallis C, Tricco A, Grantcharov TP. (2018). [The cost of intraoperative adverse events in abdominal and pelvic surgery: A systematic review](#). *The American Journal of Surgery*, January 215(1): 163–170.
5. Goldenberg MG, Lee JY, Kwong JCC, Grantcharov TP, Costello A. (2018). [Implementing assessments of robot-assisted technical skill in urological education: a systematic review and synthesis of the validity evidence](#). *BJU International*, March 122(3): 501-519.
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7. Jung JJ, Borkhoff CM, Jüni P, Grantcharov TP. (2018). [Non-Technical Skills for Surgeons \(NOTSS\): Critical appraisal of its measurement properties](#). *The American Journal of Surgery*, November 216(5): 990–997.

8. Jung JJ, Naimark DM, Behman R, Grantcharov TP. (2018). [Approach to asymptomatic paraesophageal hernia: watchful waiting or elective laparoscopic hernia repair?](#) *Surgical Endoscopy*, February 32(2): 864-871.

## 2017

1. Boet S, Sharma B, Pigford A, Hladkovicz E, Rittenhouse N, Grantcharov TP. (2017). [Debriefing decreases mental workload in surgical crisis: A randomized controlled trial.](#) *Surgery*, May 161(5): 1215-1220.
2. De Montbrun S, Louridas M, Grantcharov TP. (2017). [Passing a Technical Skills Examination in the First Year of Surgical Residency Can Predict Future Performance.](#) *Journal of Graduate Medical Education*, June 9(3): 324–329.
3. Fecso AB, Szasz P, Kerezov G, Grantcharov TP. (2017). [The Effect of Technical Performance on Patient Outcomes in Surgery: A Systematic Review.](#) *Annals of Surgery*, March 265(3):492–501.
4. Goldenberg MG, Garbens A, Szasz P, Hauer T, Grantcharov TP. (2017). [Systematic review to establish absolute standards for technical performance in surgery.](#) *British Journal of Surgery*, January (1): 13–21.
5. Goldenberg MG, Goldenberg L, Grantcharov TP. (2017). [Surgeon Performance Predicts Early Continence After Robot-Assisted Radical Prostatectomy.](#) *Journal of Endourology*, September 31(9): 858–863.
6. Goldenberg MG, Jung JJ, Grantcharov TP. (2017). [Using Data to Enhance Performance and Improve Quality and Safety in Surgery.](#) *JAMA Surgery*, October 152(10): 972–973.
7. Langerman A, Grantcharov TP. (2017). [Are We Ready for Our Close-up?: Why and How We Must Embrace Video in the OR.](#) *Annals of Surgery*, December 266(6): 934–936.
8. Louridas M, Szasz P, De Montbrun S, Harris KA, Grantcharov TP. (2017). [Optimizing the Selection of General Surgery Residents: A National Consensus.](#) *Journal of Surgical Education*, January-February 74(1): 100-107.

9. Louridas M, Szasz P, Fecso AB, Zywiell MG, Lak P, Bener AB, Harris K, Grantcharov TP. (2017).

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10. Szasz P, Bonrath E, Louridas M, Fecso A, Howe B, Fehr A, Ott M, Mack L, Harris K, Grantcharov

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11. Szasz P, Louridas M, Harris KA, Grantcharov TP. (2017). [Strategies for increasing the feasibility of](#)

[performance assessments during competency-based education: Subjective and objective](#)

[evaluations correlate in the operating room.](#) *The American Journal of Surgery*, August 214(2): 365–

372.

12. Zevin B, Dedy NJ, Bonrath EM, Grantcharov TP. (2017). [Comprehensive simulation-enhanced](#)

[training curriculum for an advanced minimally invasive procedure: a randomized controlled trial.](#)

*Surgery for Obesity and Related Diseases*, May 13(5): 815–824.

## 2016

1. Dedy NJ, Bonrath EM, Ahmed N, Grantcharov TP. (2016). [Structured Training to Improve Nontechnical Performance of Junior Surgical Residents in the Operating Room: A Randomized Controlled Trial](#). *Annals of Surgery*, January 263(1): 43-49.
2. Dedy NJ, Fecso AB, Szasz P, Bonrath EM, Grantcharov TP. (2016). [Implementation of an Effective Strategy for Teaching Nontechnical Skills in the Operating Room: A Single-blinded Nonrandomized Trial](#). *Annals of Surgery*, May 263(5): 937-941.
3. Fecso AB, Bonrath EM, Grantcharov TP. (2016). [Training in Laparoscopic Gastric Cancer Surgery in the Western World: Current Educational Practices, Challenges, and Potential Opportunities at a Large University Centre](#). *Journal of Surgical Education*, July-August 73(4): 749–755.
4. Louridas M, Szasz P, De Montbrun S, Harris K, Grantcharov TP. (2016). [Can We Predict Technical Aptitude?: A Systematic Review](#). *Annals of Surgery*, April 263(4): 673-691.
5. Louridas M, Szasz P, De Montbrun S, Harris KA, Grantcharov TP. (2016). [International assessment practices along the continuum of surgical training](#). *American Journal of Surgery*, August 212(2): 354-360.
6. Louridas M, Quinn LE, Grantcharov TP. (2016). [Predictive value of background experiences and visual spatial ability testing on laparoscopic baseline performance among residents entering postgraduate surgical training](#). *Surgical Endoscopy*, March 30(3): 1126-1133.
7. Shore EM, Grantcharov TP, Husslein H, Shirreff L, Dedy NJ, McDermott CD, Lefebvre GG. (2016). [Validating a standardized laparoscopy curriculum for gynecology residents: a randomized controlled trial](#). *American Journal of Obstetrics and Gynecology*, August 215(2): 204.e1-204.e11.

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9. Szasz P, Louridas M, De Montbrun S, Harris KA, Grantcharov TP. (2016). [Consensus-based training and assessment model for general surgery](#). *British Journal of Surgery*, May 103(6): 763-

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## 2015

1. Bonrath EM, Dedy NJ, Gordon LE, Grantcharov TP. (2015). [Comprehensive Surgical Coaching Enhances Surgical Skill in the Operating Room: A Randomized Controlled Trial.](#) *Annals of Surgery*, August 262(2): 205-212.
2. Bonrath EM, Gordon LE, Grantcharov TP. (2015). [Characterising 'near miss' events in complex laparoscopic surgery through video analysis.](#) *BMJ Quality & Safety*, August 24(8): 516–521.
3. Bonrath EM, Grantcharov TP. (2015). [Contemporary management of paraesophageal hernias: establishing a European expert consensus.](#) *Surgical Endoscopy*, August 29(8): 2180-2195.
4. Dedy NJ, Szasz P, Louridas M, Bonrath EM, Husslein H, Grantcharov TP. (2015). [Objective structured assessment of nontechnical skills: Reliability of a global rating scale for the in-training assessment in the operating room.](#) *Surgery*, June 157(6): 1002–1013.
5. Louridas M, Bonrath EM, Sinclair DA, Dedy NJ, Grantcharov TP. (2015). [Randomized clinical trial to evaluate mental practice in enhancing advanced laparoscopic surgical performance.](#) *British Journal of Surgery*, January 102(1): 37–44.
6. Palter V, Grantcharov TP. (2015). [Reply to Letter: "Development and Validation of a Comprehensive Curriculum to Teach an Advanced Minimally Invasive Procedure."](#) *Annals of Surgery*, March 261(3): e72–e73.
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## 2014

1. Beyer-Berjot L, Palter V, Grantcharov TP, Aggarwal R. (2014). [Advanced training in laparoscopic abdominal surgery: A systematic review](#). *Surgery*, September 156(3): 676-688.
2. Bonrath EM, Dedy NJ, Zevin B, Grantcharov TP. (2014). [International consensus on safe techniques and error definitions in laparoscopic surgery](#). *Surgical Endoscopy*, May 28(5): 1535-1544.
3. Gawad N, Zevin B, Bonrath EM, Dedy NJ, Louridas M, Grantcharov TP. (2014). [Introduction of a comprehensive training curriculum in laparoscopic surgery for medical students: a randomized trial](#). *Surgery*, September 156(3): 698-706.
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## 2013

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3. Bonrath EM, Fritz M, Mees ST, Weber BK, Grantcharov TP, Senninger N, Rijcken E. (2013). [Laparoscopic simulation training: does timing impact the quality of skills acquisition?](#) *Surgical Endoscopy*, March 27(3): 888-894.
4. Bonrath EM, Zevin B, Dedy NJ, Grantcharov TP. (2013). [Error rating tool to identify and analyse technical errors and events in laparoscopic surgery](#). *British Journal of Surgery*, July 100(8): 1080–1088.
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6. Dedy NJ, Zevin B, Bonrath EM, Grantcharov TP. (2013). [Current concepts of team training in surgical residency: a survey of North American program directors](#). *Journal of Surgical Education*, September-October 70(5): 578-584.
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9. **Zevin B, Bonrath EM, Aggarwal R, Dedy NJ, Ahmed N, Grantcharov TP.** (2013). [Development, feasibility, validity, and reliability of a scale for objective assessment of operative performance in laparoscopic gastric bypass surgery.](#) *Journal of the American College of Surgeons*, May 216(5): 955-965.e8.

## 2012

1. **Orzech N, Palter VN, Reznick RK, Aggarwal R, Grantcharov TP.** (2012). [A comparison of 2 ex vivo training curricula for advanced laparoscopic skills: a randomized controlled trial.](#) *Annals of Surgery*, May 255(5): 833-839.
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3. **Palter VN, Grantcharov TP.** (2012). [A prospective study demonstrating the reliability and validity of two procedure-specific evaluation tools to assess operative competence in laparoscopic colorectal surgery.](#) *Surgical Endoscopy*, September 26(9): 2489-2503.
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## 2011

1. Bould MD, Boet S, **Sharma B**, Shin E, Barrowman NJ, **Grantcharov TP**. (2011). [h-Indices in a university department of anaesthesia: an evaluation of their feasibility, reliability, and validity as an assessment of academic performance](#). *British Journal of Anaesthesia*, March 106(3): 325-330.
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## 2010

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