Stanford



Teodor Grantcharov, MD, PhD, FACS, FRCS (Glasg)

Professor of Surgery (General Surgery)

Surgery - General Surgery

CLINICAL OFFICE (PRIMARY)

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ACADEMIC CONTACT INFORMATION

- **Academic & Administrative Contact**
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Bio

BIO

Dr. Teodor Grantcharov is a Professor of Surgery at Stanford University School of Medicine and associate chief quality officer for innovation and safety at Stanford Health Care. He is s fellowship-trained surgeon specializing in minimally invasive and bariatric surgery.

Dr. Grantcharov is an accomplished researcher and an internationally recognized leader in the field of surgical innovation and patient safety. He invented the Surgical Black Box concept to advance quality and safety in surgery.

Previously, he was Professor of Surgery at the University of Toronto, Keenan Chair in Surgery at St. Michael's Hospital, and Canada Research Chair in Simulation and Surgical Safety. His honors include the Queen Elizabeth II Diamond Jubilee Medal, the Spinoza Chair in Surgery at the University of Amsterdam, and honorary fellowships from Imperial College London and several international surgical societies. He founded the International Centre for Surgical Safety and has published more than 250 peer-reviewed papers.

Dr. Grantcharov is a fellow of the American College of Surgeons.

CLINICAL FOCUS

- General Surgery

ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Surgery - General Surgery

PROFESSIONAL EDUCATION

- Fellowship: Temple University Hospital Dept of Surgery (2006) PA
- Residency: Copenhagen University Rigshospitalet (2005) Denmark
- Internship: Copenhagen University Rigshospitalet (1997) Denmark

- Medical Education: Medical University of Plovdiv (1996) Bulgaria

Research & Scholarship

CLINICAL TRIALS

- Stanford Program to Accelerate Robotic Children's Surgery, Not Specified

Publications

PUBLICATIONS

- **Optimizing video review for general surgery residents: a prospective observational study.** *Surgical endoscopy*
  Gan, C. Y., Villarreal, J. A., Seale, S., Liebert, C. A., Grantcharov, T. P., Lin, D., Korndorffer, J. R.
  2026

- **Ambient intelligence platforms and new frontiers in surgical safety.** *Surgery*
  Nobuhara, C. K., Hawn, M. T., Grantcharov, T. P.
  2026; 201: 110698

- **Development and measurement properties of the Safety Threats and Adverse Events in Trauma (STAT) taxonomy: A critical review.** *Injury*
  Nazir, A., Shore, E., Keown-Stoneman, C., Grantcharov, T., Nolan, B.
  2026: 113366

- **Understanding safety threats and resilience supports in the operating room: a mixed-methods protocol study using surgical video analysis and clinician interviews.** *BMJ open*
  Chikezie, C., Pinkney, S., Fan, M., Cafazzo, J. A., Grantcharov, T., Trbovich, P.
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- **Assessing ovarian cancer via laparoscopic video: inter-rater and intra-rater reliability.** *International journal of gynecological cancer : official journal of the International Gynecological Cancer Society*
  Møller, K. E., Carlstein, C., Rosendahl, M., Tolver, A., Grantcharov, T., Sørensen, J. L., Strandbygaard, J.
  2025; 35 (12): 102681

- **Does the Surgical Safety Checklist need a co-pilot? Comparing adherence in gynecological surgery through electronic medical records and OR Black Box video observations.** *Surgical endoscopy*
  Moller, K. E., Sorensen, J. L., Rosthoj, S., Trbovich, P., Grantcharov, T., Strandbygaard, J.
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- **Impact of a Massive Open Online Course on Radiation Safety in the Hybrid Operating Room.** *European journal of vascular and endovascular surgery : the official journal of the European Society for Vascular Surgery*
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- **A comparative analysis of the STAT taxonomy and T-NOTECHS for assessing trauma team non-technical skills: A secondary analysis using trauma video review.** *Injury*
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- **Study protocol for a Prospective Observational study of Safety Threats and Adverse events in Trauma (PrO-STAT): a pilot study at a level-1 trauma centre in Canada.** *BMJ open*
  Nazir, A., McGowan, M., Shore, E. M., Keown-Stoneman, C., Grantcharov, T., Nolan, B.
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- **Healthcare professionals' perception of the World Health Organization Surgical Safety Checklist and psychological safety: a cross-sectional survey.** *BMJ open quality*
  Møller, K. E., McLeskey, O. W., Rosthøj, S., Trbovich, P., Grantcharov, T., Sorensen, J. L., Strandbygaard, J.
  2024; 13 (4)

- **The Future Is in Sight-Using Computer Vision for Automated Objective Review of Laparoscopic Cholecystectomies**
  Villarreal, J., Egeland, C. K. L., Sui, E., Rau, A., Goel, S., Sorenson, E. C., Bohn, R., Grantcharov, T. P., Yeung-Levy, S., Jopling, J. K.

LIPPINCOTT WILLIAMS & WILKINS.2024: S424-S425

- **Impact of team performance on the surgical safety checklist on patient outcomes: an operating room black box analysis.** *Surgical endoscopy*
  Al Abbas, A. I., Meier, J., Daniel, W., Cadeddu, J. A., Bartolome, S., Willett, D. L., Palter, V., Grantcharov, T., Odeh, J., Dandekar, P., Evans, K., Wu, E., Apraku, et al
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- **Enhancing patient safety in trauma: Understanding adverse events, assessment tools, and the role of trauma video review.** *American journal of surgery*
  Nazir, A., Shore, E. M., Keown-Stoneman, C., Grantcharov, T., Nolan, B.
  2024

- **Using the Operating Room Black Box to Assess Surgical Team Member Adaptation Under Uncertainty: An Observational Study.** *Annals of surgery*
  Incze, T., Pinkney, S. J., Li, C., Hameed, U., Hallbeck, M. S., Grantcharov, T. P., Trbovich, P. L.
  2024

- **Remote Assessment of Real-World Surgical Safety Checklist Performance Using the OR Black Box: A Multi-Institutional Evaluation.** *Journal of the American College of Surgeons*
  Riley, M. S., Etheridge, J., Palter, V., Zeh, H., Grantcharov, T., Kaelberer, Z., Sonnay, Y., Smink, D. S., Brindle, M. E., Molina, G.
  2023

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  Egeland, C., Møller, K., Strandbygaard, J., Grantcharov, T., Achiam, M. P.
  2023; 185 (40)

- **Navigating a Path Towards Routine Recording in the Operating Room.** *Annals of surgery*
  Langerman, A., Hammack-Aviran, C., Cohen, I. G., Agarwala, A. V., Cortez, N., Feigenson, N. R., Fried, G. M., Grantcharov, T., Greenberg, C. C., Mello, M. M., Shuman, A. G.
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- **Surgeon's Leadership Style and Team Behavior in the Hybrid Operating Room**
  Soenens, G., Marchand, B., Doyen, B., Grantcharov, T., Van Herzeele, I., Vlerick, P.
  MOSBY-ELSEVIER.2023: 54S-55S

- **Automated Capture of Intraoperative Adverse Events Using Artificial Intelligence: A Systematic Review and Meta-Analysis.** *Journal of clinical medicine*
  Eppler, M. B., Sayegh, A. S., Maas, M., Venkat, A., Hemal, S., Desai, M. M., Hung, A. J., Grantcharov, T., Cacciamani, G. E., Goldenberg, M. G.
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- **Cognitive biases in surgery: systematic review.** *The British journal of surgery*
  Armstrong, B. A., Dutescu, I. A., Tung, A., Carter, D. N., Trbovich, P. L., Wong, S., Saposnik, G., Grantcharov, T.
  2023

- **Electroencephalography can provide advance warning of technical errors during laparoscopic surgery.** *Surgical endoscopy*
  Armstrong, B. A., Nemrodov, D., Tung, A., Graham, S. J., Grantcharov, T.
  2022

- **The Operating Room Black Box: Understanding Adherence to Surgical Checklists.** *Annals of surgery*
  Al Abbas, A. I., Sankaranarayanan, G., Polanco, P. M., Cadeddu, J. A., Daniel, W., Palter, V., Grantcharov, T., Bartolome, S., Dandekar, P., Evans, K., Zeh, H. J.
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- **Healthcare professionals' perception of safety culture and the Operating Room (OR) Black Box technology before clinical implementation: a cross-sectional survey.** *BMJ open quality*
  Strandbygaard, J., Dose, N., Moeller, K. E., Gordon, L., Shore, E., Rosthøj, S., Ottesen, B., Grantcharov, T., Sorensen, J. L.
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- **Healthcare professionals' perception of safety culture and the Operating Room (OR) Black Box technology before clinical implementation: a cross-sectional survey** *BMJ OPEN QUALITY*
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- **Assessing endovascular team performances in a hybrid room using the Black Box system: a prospective cohort study.** *The Journal of cardiovascular surgery*
  Doyen, B., Soenens, G., Maurel, B., Hertault, A., Gordon, L., Vlerick, P., Vermassen, F., Grantcharov, T., van Herzeele, I.
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- **Surgical data science - from concepts toward clinical translation.** *Medical image analysis*
  Maier-Hein, L., Eisenmann, M., Sarikaya, D., Marz, K., Collins, T., Malpani, A., Fallert, J., Feussner, H., Giannarou, S., Mascagni, P., Nakawala, H., Park, A., Pugh, et al
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- **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*
  Boet, S., Etherington, N., Lam, S., Le, M., Proulx, L., Britton, M., Kenna, J., Przybylak-Brouillard, A., Grimshaw, J., Grantcharov, T., Singh, S.
  2021; 23 (3): e15443
- **Development and Evaluation of a Novel Instrument to Measure Severity of Intraoperative Events Using Video Data.** *Annals of surgery*
  Jung, J. J., Jüni, P. n., Gee, D. W., Zak, Y. n., Cheverie, J. n., Yoo, J. S., Morton, J. M., Grantcharov, T. n.
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- **Development and Evaluation of a Novel Instrument to Measure Severity of Intraoperative Events Using Video Data.** *Annals of surgery*
  Jung, J. J., Jüni, P. n., Gee, D. W., Zak, Y. n., Cheverie, J. n., Yoo, J. S., Morton, J. M., Grantcharov, T. n.
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- **Simulation-Based Training of Non-Technical Skills in Colonoscopy: Protocol for a Randomized Controlled Trial** *JMIR RESEARCH PROTOCOLS*
  Khan, R., Scaffidi, M. A., Walsh, C. M., Lin, P., Al-Mazroui, A., Chana, B., Kalaichandran, R., Lee, W., Grantcharov, T. P., Grover, S. C.
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