



Teodor Grantcharov

Professor of Surgery (General Surgery)

Surgery - General Surgery

CLINICAL OFFICE (PRIMARY)

- **Bariatric and Metabolic Interdisciplinary Clinic**

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ACADEMIC CONTACT INFORMATION

- **Academic & Administrative Contact**

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Bio

BIO

Dr. Teodor Grantcharov completed his surgical training at the University of Copenhagen, and a doctoral degree in Medical Sciences at the University of Aarhus in Denmark.

Dr. Grantcharov is a Professor of Surgery at Stanford University and Associate Chief Quality Officer for Innovation and Safety at Stanford Healthcare.

Prior to joining Stanford, Dr. Grantcharov was a Professor of Surgery at the University of Toronto and Keenan Chair in Surgery at St. Michael's Hospital in Toronto. He was the Founder of the International Centre for Surgical Safety – a multidisciplinary group of visionary scientists with expertise in design, human factors, computer- and data science, and healthcare research. He previously held Canada Research Chair in Simulation and Surgical Safety and was awarded the Queen Elizabeth II diamond jubilee medal for his contributions to clinical research and patient safety in Canada. Dr. Grantcharov was awarded the honorary fellowship of the Imperial College in London, the honorary fellowships of the Bulgarian, Danish and Brazilian surgical societies, the Spinoza Chair in Surgery from the University of Amsterdam and multiple national and international awards for his contributions to surgical education and surgical safety.

Dr. Grantcharov's clinical interest is the area of minimally invasive surgery, while his academic focus is in the field of surgical innovation and patient safety. He has become internationally recognized as a leader in this area with his work on curriculum design, assessment of competence and impact of surgical performance on clinical outcomes. Dr. Grantcharov developed the surgical Black Box concept, which aims to transform the safety culture in medicine and introduce modern safety management systems in the high-risk operating room environment.

Dr. Grantcharov has more than 220 peer-reviewed publications and more than 200 invited presentations in Europe, South- and North America. He holds several patents and is the Founder of Surgical Safety Technologies Inc – an academic startup that commercializes the OR Black Box platform. He sits on numerous committees with Surgical Professional Societies in North America and Europe.

CLINICAL FOCUS

- General Surgery

ACADEMIC APPOINTMENTS

- Professor - University Medical 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

Publications

PUBLICATIONS

- **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.
2025; 15 (1): e087994
- **Healthcare professionals' perception of the World Health Organization Surgical Safety Checklist and psychological safety: a cross-sectional survey.** *BMJ open quality*
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- **The Future Is in Sight-Using Computer Vision for Automated Objective Review of Laparoscopic Cholecystectomies**
Villarreal, J., Egeland, C. L., Sui, E., Rau, A., Goel, S., Sorenson, E. C., Bohn, R., Grantcharov, T. P., Yeung-Levy, S., Jopling, J. K.
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- **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
2024
- **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
- **[Not Available].** *Ugeskrift for læger*
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.
2023
- **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.
2023; 12 (4)
 - **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*
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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., Gordon, L., Shore, E., Rosthoj, S., Ottesen, B., Grantcharov, T., Sorensen, J.
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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*
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 - **Surgeons' Leadership Style and Team Behavior in the Hybrid Operating Room: Prospective Cohort Study.** *Annals of surgery*
Soenens, G., Marchand, B., Doyen, B., Grantcharov, T., Van Herzeele, I., Vlerick, P.
2022
 - **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
2021; 76: 102306
 - **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.
2020; 272 (2): 220–26
 - **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.
2017; 6 (8): e153