

Curriculum vitae

David Bock, Ph.D., Associate professor.

PERSONAL DATA

Name: David Bock

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CURRENT POSITIONS

11/2019 - : Senior lecturer, School of Public Health and Community Medicine, Institute of Medicine, Göteborg University

8/2014 - : Researcher, Scandinavian Surgical Outcome Research Group (SSORG), Institute of Clinical Sciences, Göteborg University

8/2019 - : Biostatistical consultant (freelance part time)

PREVIOUS POSITIONS

3/2019 – 11/2019: Researcher, Health Metrics Unit, Sahlgrenska Academy, Göteborg University

1/2015 – 2/2019: Associate senior lecturer, Health Metrics Unit, Sahlgrenska Academy, Göteborg University

8/2014 – 1/2015: Researcher, Department of Public Health and Community Medicine, Sahlgrenska Academy, Göteborg University

12/2008 – 8/2014: Principal Statistician, AstraZeneca R&D Mölndal, Sweden

3/2006 – 12/2008: Senior Statistician, AstraZeneca R&D Mölndal, Sweden

2/2005 – 3/2006: Post doc researcher, Statistical research Unit, Göteborg University, Sweden
Statistical warning systems for emergency management. Collaborated with Swedish Institute for Communicable Disease Control.

1/2001 – 1/2005: Doctorate position, Statistical research Unit, Göteborg University,
Research and teaching.

9/2003–12/2003: Visiting Ph.D. student, Erasmus University Rotterdam, Netherlands

ACADEMIC DEGREES

2/2019: Associate professor (epidemiology), Sahlgrenska Academy, Göteborg University

- 1/2005: Ph.D. (statistics), Statistical Research Unit, Göteborg University
Thesis: *Statistical Surveillance: Optimal Decision Times in Economics*
- 5/2003: Licentiate degree, Statistical Research Unit, Göteborg University
Thesis: *Early Warnings for Turns in Business Cycles and Finance*
- 1/2001: Bachelor degree, Department of Statistics, Göteborg University
Thesis: *Icke-parametrisk Prognosutvärdering*

SUPERVISION AND LEADERSHIP

PhD supervision

Current

Main supervisor: Andreas Samuelsson, MD
Co-supervisor: Josefin Petersson, MD
Sofia Sandberg, MD
Daniel Rydbäck, MD

Completed

Co-supervisor: Sofie Walming (2021)
Jennifer Park (2019)

Master thesis supervision

MPH401 Master's thesis in Public Health Science, 30 credits
2 students

Leadership positions

2012-2014: Global Product Statistician, Early Clinical Development, Respiratory Diseases, AstraZeneca, Mölndal.
2010-2012: Global Product Statistician, Clinical Discovery Team (CDxT), AstraZeneca, Mölndal.

Global Product Statistician (GPS):

A GPS contributes with leadership, expertise and strategic thinking to the design, interpretation and reporting of drug programs. The GPS is a leadership role within one or more pharmaceutical development projects and is responsible for the reliability and quality of the statistical work. Another part of the GPS work involves leadership and supervision of junior statisticians.

Courses

2015:Handledning i forskarutbildning (HPE201), 5 hp, GU
2012: Integrative Thinking
2011: Leadership for Experts
2008: Ledarskap för Specialister

TEACHING AND PEDAGOGICAL EXPERIENCE

Pedagogical education

1. HPE101, Behörighetsgivande högskolepedagogik 1: Baskurs, 5 hp, GU, HT 2015
2. HPE102, Högskolepedagogik 2: Områdesspecifik pedagogik, 5 hp, GU, HT 2016
3. HPE103, Högskolepedagogik 3: Självständigt arbete, 5 hp, Göteborgs Universitet, VT 2017

Teaching experience

2021: Bayesian Statistics with R. 1.5 HEC. PhD course. Course leader.
 2018-2019: Klinisk forskningsmetodik (SK00020), PhD course, 2 hp, Sahlgrenska Akademin, GU, teaching.
 2020: Master of Public Health, GU, Supervision of computer labs.
 2016- present: Vetenskapsmetodik (TP6VFM), Tandläkarprogrammet, GU. Teaching and supervision of computer labs. *Two times per year*.
 2016- present: Examensarbete (TP10EX), Tandläkarprogrammet, GU. Teaching and supervision of computer labs. *Two times per year*.
 2016- 2018: Biostatistik (TP3STA), Tandläkarprogrammet, GU. Teaching
 2015: Statistisk försöksplanering, PhD course, Sahlgrenska Akademin, GU. Teaching
 2014: Design and Analysis of Clinical Trials, Matematisk statistisk, GU.

Total amount of teaching (as of 2020/12): 250+ hours
 Supervision of computer labs/workshop (as of 2020/12): 500+ hours

GRANTS AND AWARDS

PI for project *Evaluation of patient-reported outcome measures in surgical outcomes research* (Sv. *Utvärdering av patientrapporterade utfallsmått i samband med kirurgi*):
 Assar Gabrielssons Fond (FB16-24 (26 000 SEK); FB17-18 (44 500 SEK); FB18-19 (49 500 SEK); FB19-06 (68 000 SEK); FB20-16 (55 000 SEK)
 Anna-Lisa och Bror Björnssons Stiftelse (48 320 SEK)
 PI for project *Does beta-blockers reduce intrusive thoughts among patients diagnosed with cancer? – A registry based cohort study* (Sv, *Kan betablockerare minska påträngande tankar hos patienter diagnostiserade med cancer? – En registerbaserad kohortstudie*):
 Stiftelsen Mary von Sydows, född Wijk, donationsfond (70 000 SEK).

OTHER PROFESSIONAL ACTIVITIES

Statistical consultancy work

Västra Götaland Regionen (VGR). Predicting hospitalization, needed care beds and ICU beds in VGR due to COVID-19 pandemic. (80 hours March-May 2020).

Akademistatistik Consultancy service, Göteborg University. (30 hours 2018-2020)

Inspiration Healthcare Ltd (UK). Statistical advisor for clinical trial design. (50 hours 2019-2020)

Referee

British Journal of Surgery, BMC Cancer, Australian Medical Journal, European Journal of Surgical Oncology, BMJ Open, Trials, Journal of Affective Disorders, Therapeutics and Clinical Risk Management, Annals of Saudi Medicine, Colorectal Disease, Journal of Oncology.

Editorial activities

Associate editor for BMC Cancer: 9/2019-2/2021

Presentations

2020: Introduction to Bayesian statistics. Bayesian Statistics Workshop, Göteborg University 24 August

- 2019: FoU Workshop Region Halland Invited speak. Different approaches for data collection in clinical research.
Seminar, Unit of General Medicine, Göteborg University. Interaction and effect modification.
Seminar, NEON - Network in Epidemiology and Nutrition årsmöte, Göteborg, Statistical analysis of crossover studies, invited speaker.
- 2018: Seminar, NEON - Network in Epidemiology and Nutrition årsmöte, Uppsala, Statistical aspects on missing data, invited speaker.
- 2014: Teacher of course in R software, Registercentrum Västra Götaland, 11 Nov-2 Dec.
- 2009: Discussant: Linus Schiöler licentiate seminar, Statistiska forskningsenheten, Göteborg University.

REFERENCES and TESTIMONIALS

Available upon request

PEER REVIEWED PUBLICATIONS

- 2021 1 Wallin, D., **Bock, D.**, Angenete, E., Öhman, L., Magnussin, M.K, Haglind, E. (2021) A model of cecal ligation and puncture mimicking perforated diverticulitis with purulent peritonitis. Clinics in Surgery, *to appear*.
- 2 Rydbeck, D., Asplund, D., **Bock, D.**, Haglind, E., Park, E., Rosenberg, J., Walming, S., Angenete, E. (2021) Younger age at onset of colorectal cancer is associated with increased patient's delay. European Journal of Cancer, *to appear*.
- 3 Samuelsson, A., **Bock, D.**, Prytz, M., Block, M., Ehrencrona, C., Wedin, A., Ahlstedt, M., Angenete, E., Haglind, E. (2021) Laparoscopic lavage for perforated diverticulitis in the LapLav study: population-based registry with propensity score and Inverse Probability Weighting. British Journal of Surgery, *to appear*
- 4 Park, J., Block, M., **Bock, D.**, Kålebo, P., Nilsson, P., Prytz, M., Haglind, E., (2021) A Comparison of Liver Magnetic Resonance Imaging and Contrast Enhanced Computed Tomography as Standard Workup before Treatment for Rectal Cancer in Usual Care. A Retrospective Study. Current Medical Imaging, *to appear*.
- 5 Walming, S., Angenete, E., **Bock, D.**, Block, M., de la Croix, H., Wedin, A., Haglid, E. (2020) Preoperative group consultation prior to surgery for colorectal cancer - an explorative study of a new patient education method. Journal of Cancer Education, *to appear*
- 6 Correa Martinez, A., **Bock, D.**, Carlsson, E., Petersén, C., Erestam, S., Kålebo, P., Rosenberg, J., Haglind, E. (2021) Stoma related complications: a report from the Stoma-Const randomized controlled trial, Colorectal Disease, May 23(5)
- 7 Onerup, A., Andersson, J., Angenete, E., **Bock, D.**, Börjesson, M., Ehrencrona, C., Fagevik Olsén, M., Larsson, P-A., Nilsson, H., Wedin, H., Haglind, E. (2021) Effect of pre- and postoperative exercise for colorectal cancer surgery – PHYSSURG-C: randomised controlled trial, Annals of Surgery, *to appear*.
- 2020 1 Walming, S., Asplund, D., **Bock, D.**, Gonzalez, E., Rosenberg, J., Smedh, K., Angenete, E. (2020), Quality of life in patients with resectable rectal cancer during the first 24 months following diagnosis. Colorectal Disease. *To appear*

- 2 Nyberg, M., Akre, O., **Bock, D.**, Carlsson, S., Hugosson, J., Lantz, A., Steineck, G., Stranne, J., Tyritzis, S., Wiklund, P., Haglind, E., Bjartell, A. (2020). Risk of Recurrent Disease 6 Years After Open or Robotic-assisted Radical Prostatectomy in the Prospective Controlled Trial LAPPRO. *European Urology*, 20, 1.
 - 3 Ottarsdottir, K., Hellberg, M., **Bock, D.**, Nilsson A.G, Daka, B (2020) Longitudinal associations between sex hormone-binding globulin and insulin resistance, *Endocrine Connections*, 9, 418-25
 - 4 **Bock, D.**, Angenete, E., Asplund, D., Bjartell, Haglind, E., et al. (2020). Do intrusive thoughts at diagnosis predict impaired quality of life, depressed mood and waking up with anxiety 3, 12 and 24 months after radical prostatectomy? - A longitudinal study. *Scand J Urol*. 54(3):220-226
 - 5 Correa Martinez, A., **Bock, D.**, Erestam, S, et al. (2020) Methods of Colostomy Construction: No Effect on Parastomal Hernia Rate. Results From Stoma-const—A Randomized Controlled Trial. *Ann Surg*, 20 Marc
 - 6 Petersson, J., **Bock, D.**, Martling, A., Smedby, K.E, Angenete, E., Saraste, D. (2020) Increasing incidence of colorectal cancer among the younger population in Sweden. *BJS Open*, 2 june.
 - 7 Sandberg, S, Asplund, D., Bisgaard, T., **Bock, D.**, Gonzalez, E., Karlsson, L., Matthiessen, P., Ohlsson, B., Park, J., Rosenberg, J., Skullman, S., Sörensson, M., Angenete E. (2020). Low Anterior Resection Syndrome In a Snadinavian Population of Patients with Rectal Cancer - A Longitudinal Follow-up within the Qolirect Study. *Colorectal Dis.*, 28 April.
 - 8 Nyberg, M., Akre, O., **Bock, D.**, Carlsson, S., Carlsson, S., Hugosson, J., Lantz, A., Steineck, G., Stranne, J., Tyritzis, S., Wiklund, p., Haglind, E., Bjartell, A. (2020). Risk of Recurrent Disease 6 Years After Open or Robotic-assisted Radical Prostatectomy in the Prospective Controlled Trial LAPPRO. *European Urology Open Science*. 20:54-61
 - 9 Onerup, A, Thörn, S-E. Angenete, E., **Bock, D.**, Grybäck Gillheimer, E., Haglind, E., Nilsson, E. (2020) Effects of a home-based exercise program on the insulin-like growth factor axis in patients operated for colorectal cancer in Sweden: Results from the randomised controlled trial PHYSSURG-C. *Growth Hormone & IGF Research* 51 (2020) 27–33
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- 2019 1 Sörensson, M., Asplund, D., Mattiessen, P., Rosenberg, J., Hallgren, T., Rosander, C., Gonzalez, E., **Bock, D.**, Angenete, E (2019) Self-reported sexual dysfunction in patients with rectal cancer. *Colorectal Disease*, *In press*
 - 2 Onerup A, **Bock, D** (2019) Comment: The use of a non-inferiority analysis to establish a safe timeframe for prehabilitation. *Eur J Surg Oncol*, 45. 2019.
 - 3 Karlsson L, **Bock, D**, Asplund D, Ohlsson B, Rosenberg J, Angenete E. (2019) Urinary dysfunction in patients with rectal cancer: a prospective cohort study. *Colorectal Dis*. 2019 Jul 23
 - 4 **Bock, D.**, Angenete, E., Bjartell, A., Hugosson J., Steineck, G., Walming, S., Wiklund, P., Haglind, E. (2019) Agreement between patient reported outcomes and clinical reports after radical prostatectomy - A prospective longitudinal study. *BMC Urology*, 19(1):35
 - 5 Erestam, S., **Bock, D.**, Andersson, A.E., Bjartell, A., Carlsson, S., Stinesen Kollberg, K., Sjoberg, D., Steineck, G., Stranne, J., Thorsteindottir, T., Tyritzis, S., Wallerstedt, A., Wallerstedt Lantz, A., Wiklund, P., Angetete, E., Haglind, E. (2019) Associations between intraoperative factors and surgeons' self-assessed operative satisfaction. *Surgical Endoscopy*. 34(1):61-68

- 6 Park, J., Angenete, E., **Bock, D.**, Correa-Marinez, A., Danielsen, A., Gehrman, J., Haglind, E., Jansen, J., Skullman, S., Wedin, A., Rosenberg, J. (2019) Cost analysis in a randomized trial of early closure of a temporary ileostomy after rectal resection for cancer (EASY trial). *Surgical Endoscopy*. 34(1):69-76
 - 7 Petersson J, Koedam TW, Bonjer HJ, Andersson J, Angenete E, **Bock D**, Cuesta MA, Deijen CL, Fürst A, Lacy AM, Rosenberg J, Haglind E; Colorectal cancer Laparoscopic or Open Resection (COLOR) II Study Group. (2019) Bowel Obstruction and Ventral Hernia After Laparoscopic Versus Open Surgery for Rectal Cancer in A Randomized Trial (COLOR II). *Ann Surg*. Jan; 269(1):53-57.
 - 8 Keane, C., Park, J., Öberg, S., Wedin, A., **Bock, D.**, O'Grady, G, Bissett, I., Rosenberg, J, Angenete, E (2019) Functional outcome of early closure of temporary ileostomy after rectal resection for cancer Secondary analysis of a randomized trial. *British Journ of Surgery*. 106(5):645-652
- 2018
- 1 Correa-Marinez A, Grenabo J, **Bock D.**, Wedin A, Angenete E. (2018) The type of stoma matters-morbidity in patients with obstructing colorectal cancer. *Int J Colorectal Dis*. 2018 Dec; 33(12):1773-1780.
 - 2 Walming S, Asplund D, Block M, **Bock D**, Gonzalez E, Rosander C, Rosenberg J, Angenete E. (2018) Patients with rectal cancer are satisfied with in-hospital communication despite insufficient information regarding treatment alternatives and potential side-effects. *Acta Oncol*. 2018 Oct;57(10):1311-1317
 - 3 Prytz, M., Ledebø, A., Angenete, E., **Bock, D.**, Haglind, E., (2018) Association between operative technique and intrusive thoughts on health-related Quality of Life 3 years after APE/ELAPE for rectal cancer: results from a national Swedish cohort with comparison with normative Swedish data. *Cancer Med*, 7(6):2727-2735
 - 4 Kohl. A., Rosenberg, J., **Bock, D.**, Bisgaard, T., Skullman, S., Thornell, A., Gehrman, J., Angenete, E., Haglind, E., (2018) Two-year results of the randomized clinical trial DILALA comparing laparoscopic lavage with resection as treatment of perforated diverticulitis. *British Journ of Surgery*, 105(9):1128-1134
 - 5 Ledebø, A., **Bock, D.**, Prytz, M., Haglind, E., Angenete, E. (2018) Urogenital function three years after abdominoperineal excision for rectal cancer. *Colorectal Disease*, 20(6):O123-O134
 - 6 **Bock, D.**, Angenete, E., González, E., Heath, J., Haglind, E. (2018) Assessing health, quality of life and urogenital function in a sample of the Swedish general population. A cross sectional study. *BMJ Open*, May 5;8(5)
 - 7 Walming, S., Block, M., **Bock, D.**, Angenete, E., (2018) Timely access to care in rectal cancer treatment and the effect on quality of life. *Colorectal Disease*, 20(2):126-133
 - 8 Park, J., Danielsen, A. K., Angenete, E. , **Bock, D.** ,Marinez, A. C., Haglind, E., Jansen, J. E., Skullman, S., Wedin, A. ; Rosenberg, J. (2018) Quality of life in a randomized trial of early closure of temporary ileostomy after rectal resection for cancer (EASY trial). *British Journal of Surgery*, Vol.105(3), pp.244-251.
- 2017
- 1 Asplund, D., Bisgaard, T., **Bock, D.**, Burcharth, J., Gonzalez, E., Haglind, E., Kolev, Y. Matthiessen, P., Rosander, C., Rosenberg, J. Smedh, K. Angenete, E. (2017) Pretreatment quality of life in patients with rectal cancer is associated with intrusive thoughts and sense of coherence. *International Journal of Colorectal Disease*, Vol.32(11), pp.1639-1647
 - 2 Angenete, E., **Bock, D.**, Rosenberg, J., Haglind, E., (2017) Laparoscopic lavage versus colon resection for perforated purulent diverticulitis - a meta-analysis. *International Journal of Colorectal Disease*, 32(2):163-169.

- 3 **Bock, D.**, Angenete, E., Bjartell, A., Carlsson, S., Steineck, G., Stranne, J., Thorsteinsdottir, T., Wiklund, P., Haglind, E., (2017) Habits and self-assessed quality of life, negative intrusive thoughts and depressed mood in patients with prostate cancer: a longitudinal study. *Scand J Urol*. 2017 Jun 16:1-7.
 - 4 Erestam S., Haglind E., **Bock D.**, Andersson A.E., Angenete E., (2017) Changes in safety climate and teamwork in the operating room after implementation of a revised WHO checklist: a prospective interventional study. *Patient Saf Surg*. Jan 31;11:4.
 - 5 Onerup, A., Angenete, E., **Bock, D.**, Börjesson, M., Fagevik Olsén, M., Grybäck Gillheimer, E., Skullman, S., Thörn, S. Eg., Haglind, E., Nilsson, H. (2017) The effect of pre- and post-operative physical activity on recovery after colorectal cancer surgery (PHYSSURG-C): Study protocol for a randomised controlled trial. *Trials*, 2017, Vol.18(212).
 - 6 Walming, S., Angenete, E., Block, M., **Bock, D.**, Gessler, B., Haglind, E., (2017) Retrospective review of risk factors for surgical wound dehiscence and incisional hernia. *BMC Surgery*, 22;17(1):19
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- 2016 1 Gehrman, J., Angenete, E., Björholt, I., **Bock, D.**, Rosenberg, J., Haglind, E. (2016) Health economic analysis of laparoscopic lavage versus Hartmann's procedure for diverticulitis in the randomized DILALA trial. *British Journal of Surgery*, 103(11):1539-47.
 - 2 Onerup A, **Bock D.**, Börjesson M, Fagevik Olsén M, Gellerstedt M, Haglind E, Nilsson H, Angenete E. (2016) Is preoperative physical activity related to post-surgery recovery?-a cohort study of colorectal cancer patients. *Int J Colorectal Dis*. 31(6):1131-40.
 - 3 Prytz M, Angenete E, **Bock D.**, Haglind E. (2016) Extralevator Abdominoperineal Excision for Low Rectal Cancer-Extensive Surgery to be Used With Discretion Based on 3-Year Local Recurrence Results: A Registry-based, Observational National Cohort Study. *Annals of Surgery*, 2016, Vol.263(3), p.516-521
 - 4 Correa Marinez, A., González, E., Holm, K., **Bock, D.**, Block, M., Haglind, E., Angenete, E. (2016) Stoma related symptoms in patients operated for rectal cancer with abdominoperineal excision. *International Journal of Colorectal Disease*, Vol.31(3), pp.635-641
 - 5 Danielsen, A.K., Park, J., Jansen, J.E., **Bock, D.**, Skullman, S., Wedin, A., Marinez, A.C., Haglind, E., Angenete, E., Roseberg, J. (2016) Early Closure of a Temporary Ileostomy in Patients With Rectal Cancer. *Annals of Surgery*, 265(2), 284-290.
 - 6 Nilsson, H., Angerås, U., **Bock, D.**, Börjesson, M., Onerup, A., Fagevik Olsen, M., Gellerstedt, M., Haglind, E., Angenete, E. (2016) Is preoperative physical activity related to post surgery recovery? - A cohort study of breast cancer patients. *BMJ Open*. 14;6(1).
 - 7 Gessler B, **Bock D**, Pommergaard HC, Burchardt J, Rosenberg J, Angenete E. (2016) Risk factors for anastomotic dehiscence in colon cancer surgery--a population-based registry study. *Int J Colorectal Dis*. 31(4):895-902
 - 8 Thornell, A., Angenete, E., Bisgaard, T., **Bock, D.**, Burchardt, J., Heath, J., Pommergaard, H-C., Rosenberg, J., Stilling, N., Skullman, S., Haglind, E. (2016) Laparoscopic Lavage for Perforated Diverticulitis With Purulent Peritonitis. *Annals of Internal Medicine*, 164(3):137-45.
 - 2015 1 Asplund D, Prytz M, **Bock D.**, Haglind E, Angenete E. (2015) Persistent perineal morbidity is common following abdominoperineal excision for rectal cancer. *International journal of colorectal disease*, Vol.30(11), pp.1563-1570.
 - 2 Onerup A, Angerås U, **Bock D.**, Börjesson M, Fagevik Olsén M, Gellerstedt M, Haglind E, Nilsson H, Angenete E. (2015) The preoperative level of physical activity is associated to the postoperative recovery after elective cholecystectomy - A cohort study. *Int J Surg*.19:35-41

- 2013 1 Björck, M., Lepkowska Eriksson, M., Bylock, A., Steuer, J., Wanhainen, A., Carlsson, B., **Bock, D.**, Kragsterman, B. (2013) Plasminogen Activator Inhibitor-1 levels and activity are reduced lowers after intervention in patients with critical limb ischaemia. *European Journal of Vascular and Endovascular Surgery*, 46, 214-222.
- 2008 1 **Bock, D.**, Andersson, E. and Frisén, M. (2008) Statistical Surveillance of Epidemics: Peak Detection of Influenza in Sweden. *Biometrical Journal*, 50, 71-85.
- 2 Andersson, E., **Bock, D.**, Frisén, M. (2008) Modeling influenza incidence for the purpose of on-line monitoring. *Statistical Methods in Medical Research*, 17, 421-438
- 3 **Bock, D.** (2008) Aspects on the Control of False Alarms in Statistical Surveillance and the Impact on the Return of Financial Decision systems. *Journal of Applied Statistics*, 35, 213-227.
- 2006 1 Andersson, E., **Bock, D.**, Frisén, M. (2006) Some statistical aspects on methods for detection of turning points in business cycles. *Journal of Applied Statistics* 33, pp. 257-278.
- 2005 1 Andersson, E., **Bock, D.**, Frisén, M. (2005) Statistical surveillance of cyclical processes with application to turns in business cycles. *Journal of Forecasting* 24, 465-490.
- 2004 1 Andersson, E., **Bock, D.**, Frisén, M. (2004) Detection of turning points in business cycles. *Journal of Business Cycle Measurement and Analysis*, 1, 1, pp 93-108.
- 2003 1 Sonesson, C. and **Bock, D.** (2003) A review and discussion of prospective statistical surveillance in public health. *Journal of the Royal Statistical Society Ser A*, 166, 5-21.