

# Curriculum Vitae – PD Dr. med. Marco von Strauss und Torney



## Medical school

1999-2005 Medical school Albert-Ludwigs-University Freiburg i. Breisgau: graduation in medicine, Staatsexamen  
2007 Doctoral thesis Albert Ludwigs University Freiburg i. Breisgau

## Board certification in surgery (FMH Chirurgie)

03/2013 Board certification as general surgeon

## Board certification in coloproctology (EBSQ)

09/2017 European Board of Surgical Qualification (EBSQ) Coloproctology

## Senior Lecturer in surgery (Habilitation)

05/2019 cumulative habilitation on efficiency in surgery University of Basel

## Board certification in visceral surgery

04/2022 Schwerpunkt Viszeralchirurgie FMH

## Working Experience

### 1) Clinical work

12/2005-1/2006 Maternité Triemlispital Zürich gynaecology (house officer)  
3/2006-12/2006 Kantonsspital Uri, Altdorf surgery (house officer)  
1/2007-12/2008 Kantonsspital Olten surgery (resident)  
1/2009-12/2011 Kantonsspital Bruderholz surgery (resident)  
1/2011-6/2013 University Hospital Basel surgery (resident)  
7/2013- 5/2016 Kantonsspital Aarau surgery (junior consultant (« Oberarzt ») in general surgery (trauma and visceral surgery)  
6/2016-5/2017 Senior Colorectal Fellow Western General Hospital Colorectal Unit Edinburgh, Scotland, United Kingdom  
6/2017-5/2018 University Hospital Basel, junior consultant (“stv. Oberarzt”) clinical research and visceral surgery  
6/2018 -12/2018 University Hospital Basel, consultant (“Oberarzt”)  
1/2019 Clarunis University Center for Gastrointestinal and Liver Disease, department of visceral surgery consultant

### 2) Research

>2002 **Clinical research:** sports medicine (Freiburg)  
>2007 **Clinical research:** feasibility study on tissue banking (Olten)  
>2009 **Economic research:** cost of surgical training (Basel)  
>2012 **Research in process management:** workflow analysis in the OR (Basel)

- >2013 **RCT:** timing of antibiotic prophylaxis for the prevention of surgical site infections (Basel and Aarau, co PI)
- >2014 **Epidemiology:** population based study of treatment of diverticulitis in Switzerland (Basel)
- >2014 **Economic research:** cost efficacy in polytrauma care (Aarau)
- >2016 **Health Economics:** population based study on caseload requirements in highly specialized visceral surgery (HSM) and its influence on surgeons` decision making
- >2016 **Epidemiology:** Interval resection in complicated diverticulitis: driven by reimbursement or evidence? A comparative population based analysis of two health care systems (Switzerland/Scotland)
- >2017 **Research in process management** workflow optimization in rare and complex visceral surgery: 3 P Study (preoperative planning and preparation)
- >2017 **Health Cost Analysis:** Influence of Surgical site infection on hospital revenue
- >2019 **Multicenter observational trial:** EvaCol, Evaluation of the introduction of a Colorectal Bundle in left sided colorectal resections
- >2020 **Retrospective cohort study:** Stoma associated complications after split stoma or end ileostomy formation
- >2020 DCCC Decentralized Colorectal Cancer Care burden or benefit in a pandemic? **A comparative population based study**
- >2021 **Retrospective cohort study:** clinical appendicitis scores and identification of complicated appendicitis
- >2021 ColoPET: **retrospective cohort study** on the role of PET CT in the accuracy of staging in colorectal cancer

### Awards and grants

AQC data award 2010. The cost of surgical training: analysis of operative times for laparoscopic cholecystectomy.

Ethicon travel award 2014 Annual meeting Swiss society of visceral surgery, Interlaken for the abstract « treatment of complicated diverticulitis in Switzerland »

Grant Gottfried und Julia Bangerter-Rhyner-Foundation for Colorectal Fellowship in Western General Hospital Edinburgh, Scotland

Grant Freiwillige Akademische Gesellschaft (FAG) Basel for population based study on interval resections in complicated diverticulitis

Grant Gottfried und Julia Bangerter-Rhyner-Foundation for population based study on interval resections in complicated diverticulitis

Grant Forschungsfond der Universität Basel for population based study on interval resections in complicated diverticulitis

Grant propatient Foundation University Hospital Basel for "3P Trial: Preoperative planning and preparation of complex and rare procedures in GI surgery

Felix Largiadèr Preis der Schweizerischen Gesellschaft für Viszeralchirurgie 2020 for "Risk of Emergency Surgery or Death After Initial Nonoperative Management of Complicated Diverticulitis in Scotland and Switzerland". JAMA Surg. 2020

Grants of Gottfried und Julia Bangerter-Rhyner-Foundation, Waldmeier Wohlfahrtsfond and Freiwillige Akademische Gesellschaft (FAG) Basel for Multicenter observational trial: EvaCol, Evaluation of the introduction of a Colorectal Bundle in left sided colorectal resections

### Reviewing Activity

Reviewer for *Surgical Endoscopy and Other Interventional Techniques*

### Membership/Committees

- > 2008 Member FMH (foederatio medicorum helveticorum)
- > 2010 Junior member SGC; member since 2013 (Swiss society of surgery)
- > 2009 Member FJC; President 2013-2015 (forum of young surgeons in the SGC)
- > 2016 Swiss Association for Minimal invasive Surgery (Swiss MIS)
- > 2017 Fellow of the European Society of Coloproctology (ESCP)
- > 2018 Deutsche Gesellschaft für Chirurgie (DGC)
- > 2021 Deutsche Gesellschaft für Viszeralchirurgie

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## Scientific Publications

### Peer-reviewed articles

1. **Von Strauss und Torney M**, Schmelz M, Kos S, Jakob M. Seltene Komplikation einer häufigen Fraktur: Schockierende Blutung der Arteria epigastrica inferior nach Schambeinastfraktur. *Swiss Medical Forum* 2012;12(4):81–82.
2. **Von Strauss und Torney M**, Dell-Kuster S, Mechera R, Rosenthal R, Langer I. The cost of surgical training: an analysis of operative times for laparoscopic cholecystectomy. *Surgical Endosc.* 2012; 26 (9): 2579-86
3. **Von Strauss und Torney M**, Güller U, Rezaeian F, Brosi P, Terracciano L, Zuber M. Tissue banking in a cantonal hospital: a promising future concept? *World J Surg.* 2012 Oct;36(10): 2300-4
4. **Von Strauss und Torney M**, Brunner P, von Holzen U, Hohmann J, Kettelhack C. A large fibroma of the round hepatic ligament, *Surgery.* 2014 Jun;155(6):1095-6
5. Mujagic E, Zwimpfer T, Marti WR, Zwahlen M, Hoffmann H, Kindler C, Fux C, Misteli H, Iselin L, Lugli AK, Nebiker CA, von Holzen U, Vinzens F, **von Strauss und Torney M**, Reck S, Kraljević M, Widmer AF, Oertli D, Rosenthal R, Weber WP. Evaluating the optimal timing of surgical antimicrobial prophylaxis: study protocol for a randomized controlled trial. *Trials.* 2014 May 24;15:188
6. **Von Strauss und Torney M**, Dell- Kuster S, Hoffmann H, von Holzen U, Oertli D, Rosenthal R. Microcomplications in laparoscopic cholecystectomy: impact of duration of surgery and costs *Surg Endosc.* 2015 August 27
7. **Von Strauss und Torney M**, Thommen S, Dell-Kuster S, Hoffmann H, Rosenthal R, Young J, Kettelhack C. Surgical Treatment of uncomplicated diverticulitis in Switzerland: Comparison of population-based data over two time periods; *Colorectal Disease* March 29 2017
8. Gerdes S, Hollmann PO, Curti G, **von Strauss und Torney M**. Wenn das Pankreas im Thorax liegt; *Swiss Medical Forum* February 7 2017 17 (11)
9. Weber WP, Mujagic E, Zwahlen M, Bundi M, Hoffmann H, Soysal SD, Kraljevic M, Delko T, **von Strauss und Torney M**, Iselin L, Da Silva RX, Zeindler J, Rosenthal R, Misteli H, Kindler C, Müller P, Saccilotto R, Lugli AK, Kaufmann M, Gürke L, Oertli D, Bucheli-Laffer E, Landin J, Widmer AF, Fux CA, Marti WR. Timing of surgical antimicrobial prophylaxis: a phase 3 randomised controlled trial. *Lancet Infect Dis.* 2017 April 3
10. Mechera R, Dell-Kuster S, **von Strauss und Torney M**, Langer I, Furrer M, Bucher HC, Rosenthal R Tutorial Assistance for Board Certification in Surgery: Frequency, Associated Time and Cost *World J Surg.* 2017 Aug;41(8):1950-1960
11. **Von Strauss und Torney M**, Ahglamandi S, Zeindler J, Nowakowski D, Nebiker A, Kettelhack C, Rosenthal R, Droeser R, Soysal S, Hoffmann H, Mechera R High-resolution standardization reduces delay due to workflow disruptions in laparoscopic cholecystectomy *Surg Endosc.* 2018 May 21
12. Kremel D, Riss S, Müller C, **von Strauss M**, Winstanley C, Winstanley J, Potter M, Paterson H, Collie M Adverse obstetric history is not a risk factor for poor outcome after ventral mesh rectopexy for obstructive defecation syndrome *Colorectal Disease* 2018 Sep 1. [epub ahead of print]
13. Mujagic E, Zeindler J, Coslovsky M, Marti W, Hoffmann H, Soysal S, Mechera R, **von Strauss M**, Delko T, Saxer F, Glaab R, Kraus R, Mueller A, Curti G, Gurke L, Jakob M, Weber W. The association of surgical drains with surgical site infections – a prospective observational study *Am J Surg.* 2018 Jun 19
14. Mujagic E, Marti WR, Coslovsky M, Soysal SD, Mechera R, **von Strauss M**, Zeindler J, Saxer F, Mueller A, Fux CA, Kindler C, Gurke L, Weber WP. Associations of Hospital Length of Stay with Surgical Site Infections. *World J Surg.* 2018 Jul 5
15. Daniela Bertschi; Walter P. Weber, Jasmin Zeindler, Daniel Stekhoven,, Robert Mechera, Lilian Salm, Marco Kraljevic, Savas D. Soysal, **Marco von Strauss**, Edin Mujagic, Walter R. Marti. Antimicrobial Prophylaxis Redosing Reduces Surgical Site Infection Risk in Prolonged Duration Surgery Irrespective of Its Timing. *World J Surg.* 2019 Jul 10
16. **Marco von Strauss**, Walter R Marti, Edin Mujagic, Michael Coslovsky, Katharina Diernberger, Peter Hall, Jasmin Zeindler, Lilian A. Salm, Savas D. Soysal, Robert Mechera, Urs von Holzen, Walter P Weber. The impact of surgical site infections on hospital contribution margin – a European prospective observational cohort study. *Infection control & Hospital Epidemiology (ICHE)* 2019 Dec;40(12):1374-1379

17. Haak F, Obrecht I, Tosti N, Weixler B, Mechera R, Däster S, **von Strauss M**, Delko T, Spagnoli GC, Terracciano L, Sconocchia G, von Flüe M, Kraljević M, Droeser RA. Tumor Infiltration by OX40+ Cells Enhances the Prognostic Significance of CD16+ Cell Infiltration in Colorectal Cancer. *Cancer Control*. 2020 Jan Dec;27
18. Hess GF, Menter T, Boll D, Steiger J, **von Strauss Und Torney M**. EBV-associated mucocutaneous ulcer, a rare cause of a frequent problem. *J Surg Case Rep*. 2020 Apr 7;2020(4)
19. **von Strauss Und Torney M**, Moffa G, Kaech M, Haak F, Riss S, Deutschmann E, Bucher HC, Kettelhack C, Paterson HM. Risk of Emergency Surgery or Death After Initial Nonoperative Management of Complicated Diverticulitis in Scotland and Switzerland. *JAMA Surg*. 2020 May 13
20. Nikolic M, Stift A, Reinisch W, Vogelsang H, Matic A, Muller C, **von Strauss und Torney M**, Riss S. Allogeneic expanded adipose-derived stem cells in the treatment of rectovaginal fistulas in Crohn's disease, *Colorectal Disease* 18<sup>th</sup> August 2020
21. Taha-Mehlitz S, Bianco G, Coto-Llerena M, Kancherla V, Bantug GR, Gallon J, Ercan C, Panebianco F, Eppenberger-Castori S, **von Strauss M**, Staubli S, Bolli M, Peterli R, Matter MS, Terracciano LM, von Flüe M, Ng CKY, Soysal SD, Kollmar O, Piscuoglio S. Adenylosuccinate lyase is oncogenic in colorectal cancer by causing mitochondrial dysfunction and independent activation of NRF2 and mTOR-MYC-axis. *Theranostics*. 2021 Feb 15;11(9):4011-4029.
22. L Salm, W R Marti, D J Stekhoven, C Kindler, **M von Strauss**, E Mujagic, W P Weber Impact of bodyweight-adjusted antimicrobial prophylaxis on surgical-site infection rates *BJS Open*, Volume 5, Issue 2, March 2021
23. Max Kaech, Elisabeth Deutschmann, Giusi Moffa, Fabian Haak, Heiner C. Bucher, Christoph Kettelhack, **Marco von Strauss und Torney**, Influence of the Introduction of Caseload Requirements on Indication for Visceral Cancer Surgery in Switzerland *European Journal of Surgical Oncology (EJSO)* epub 16<sup>th</sup> April 2021
24. Kopp Lugli A, Marti WR, Salm L, Mujagic E, Bundi M, **von Strauss M**, Bucheli Laffer E, Landin J, Fux CA, Coslovsky M, Weber W, Kindler C. The Role of HbA1c as a Positive Perioperative Predictor of Surgical Site and Other Postoperative Infections: An Explorative Analysis in Patients Undergoing Minor to Major Surgery. *World J Surg*. 2021 Nov 8.
25. Fabian Haak, Savas Soysal, Elisabeth Deutschmann, Giusi Moffa, Heiner C Bucher, Max Kaech, Christoph Kettelhack, Otto Kollmar, **Marco von Strauss und Torney**, Incidence of Liver Resection Following the Introduction of Caseload Requirements for Liver Surgery in Switzerland, *World J Surg* 2022 Jun;46(6):1457-1464.Epub 2022 Mar 16.
26. Fabian Haak, Tino Poletti, Nir Grossman, Urs von Holzen, Martin Bolli, Jennifer M. Klasen, Tracy Glass, **Marco von Strauss und Torney**, Interprofessional differences in preoperative planning- the individualist surgeon, *European Surgery* accepted: 5 April 2022
27. Fabian Haak, Otto Kollmar, Anna Ioannidis, Jan E. Slotta, M. B. Ghadimi, Tracy Glass, **Marco von Strauss und Torney**, Predicting complicated appendicitis based on clinical findings: The role of Alvarado and Appendicitis Inflammatory Response Scores *Langenbecks Archives of Surgery* – accepted for publication 24 April 2022