

Curriculum vitae

Prof Dr. med. Dr. h.c. Daniel Candinas, MD

Department of Visceral Surgery and Medicine, Bern University Hospital, University of Bern, Switzerland; daniel.candinas@insel.ch

Born: 7th May 1961, Switzerland
Nationalities: Swiss and French

Professional experience

Residency

1.1.1988 - 30.3.89 Resident in General Surgery: Department of Surgery, University Hospital of Zurich, Switzerland
1.4.1989 - 30.3.90 Resident in General Surgery, Kantonales Spital Uznach
1.4.1990 - 30.9.90 Resident in Paediatric Surgery: University Children's Hospital of Zurich
1.10.1991 - 30.3.93 Resident in General and Transplantation Surgery, Department of Surgery, University Hospital of Zurich

Fellowships

1.4.1993 – 31.7.94 Research Fellow and Registrar, Liver and Hepatobiliary Unit, Queen Elizabeth Hospital, Birmingham, U.K.
1994 - 95 Research Fellow, Sandoz Center for Immunobiology, Department of Surgery, New England Deaconess Hospital, Harvard Medical School, Boston, USA

Instructor

1995 - 1996 Instructor in Surgery, Department of Surgery, New England Deaconess Hospital, Harvard Medical School, Boston, USA

Staff Surgeon

3/1996 - 8/1999 Oberarzt, Department of Surgery, University of Zurich Hospital, Switzerland
7/1999 - 12/1999 Clinical lead, abdominal transplant program, University of Zurich Hospital

Consultant Surgeon

9/ 1999 - 1/2002 Consultant Surgeon / Senior Lecturer, Liver and Hepatobiliary Unit, Queen Elizabeth Hospital, Birmingham, United Kingdom

Director

2/2002 – 4/2011 Clinic of Visceral and Transplant Surgery University Hospital Bern

Chairman

4/2005 - 4/2011 Department of Gastrointestinal, Liver and Chest Disease
Inselspital, University Hospital Bern
CH-3010 Bern, Switzerland

Director - Chairman

2/2011 - University Clinic for Visceral Surgery and Medicine, Inselspital

Vize-Rector

1.8.2016 - University of Bern, Bern, Switzerland
Vice –Rector for Research

Surgical certifications and Academic Development (selected)

1981 Matura Typus B (Kantonsschule Chur)
1981-87 Medical School, Faculty of Medicine, University of Zurich
1987 Swiss Federal Medical Diploma; University of Zurich
1991 MD thesis on quality control in elective general surgery. Faculty of Medicine, University of Zurich

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| 1994 | Specialist in General Surgery, Foederatio Medicorum Helveticorum (Swiss Medical Association) |
| 1993-94 | Temporary License, General Medical Council, UK |
| 1995-96 | Instructor in Surgery, Harvard Medical School, Boston, MA |
| 1997 | Habilitation, University of Zurich. Privatdozent and Venia legendi in General and Transplant Surgery |
| 1999 | CCST Registration in General Surgery, United Kingdom |
| 1999 | Full GMC Registration as Medical Practitioner (# 4657640) |
| 2000 | Home Office Personal License (UK) |
| 2000 | Diplôme Universitaire en Chirurgie Laparoscopique. Faculté de Médecine de Strasbourg, France |
| 2000 | Staff Development Review Module, University of Birmingham, UK |
| 2001 | Hospital Management Course, Swiss Surgical Society |
| 2001 | Fellow of the Royal College of Surgeon of England (ad eundi) |
| 2002 | Ordinarius für Chirurgie, University of Bern |
| 2002 | Schwerpunkttitle für Viszeralchirurgie (ad eundi) |
| 2009 | Doctorem honoris causa, University of Varna |

Current Board Memberships (selected)

- Board of the Swiss Society for Visceral Surgery, past President
- Editorial Board of “Therapeutische Umschau”
- Editorial Board of the British Journal of Surgery
- Board of CAscination AG (Computer Assisted Soft Tissue and Liver Surgery)
- Board Fondazione Hepatocentro Ticino (Research Foundation)
- President Insula Foundation (Research Foundation)
- Board Scherbarth Foundation (Medical Advisor of the Foundation)
- Board Solothurner Spitäler AG (Consortium of Hospitals in Solothurn, CH)
- Board Genaxen Foundation (Research Foundation)

Publications since 2009

1. Banz VM, D Inderbitzin, R Fankhauser, P Studer, and D Candinas. Long-Term Quality of Life After Hepatic Resection: Health Is not Simply the Absence of Disease. *World J Surg* 2009; 33 (7):1473-80.
2. Banz VM, P Studer, D Inderbitzin, and D Candinas. Validation of the Estimation of Physiologic Ability and Surgical Stress (E-PASS) Score in Liver Surgery. *World J Surg* 2009; 33 (6):1259-65.
3. Beldi G, S Bisch-Knaden, V Banz, K Muhlemann, and D Candinas. Impact of intraoperative behavior on surgical site infections. *Am J Surg* 2009 Aug ;198(2) :157-62.
4. Brander L, T Haltmeier, A Suter, P Studer, D Inderbitzin, D Candinas, A Vogt, C Henzen, J Takala, and SM Jakob. Peri-operative adrenocortical response to low-dose (1 microg) ACTH and relation to postoperative complications in patients undergoing elective abdominal surgery. *Surgery* 2009; 146 (1):88-99.
5. Renzulli P, R Weimann, JP Barras, TP Carrel, and D Candinas. Low-grade endometrial stromal sarcoma with inferior vena cava tumor thrombus and intracardiac extension: radical resection may improve recurrence free survival. *Surg Oncol* 2009; 18 (1):57-64.
6. Schnuriger B, D Inderbitzin, M Schafer, R Kickuth, A Exadaktylos, and D Candinas. Concomitant injuries are an important determinant of outcome of high-grade blunt hepatic trauma. *Br J Surg* 2009; 96 (1):104-10.
7. Schnuriger B, J Kilz, D Inderbitzin, M Schafer, R Kickuth, M Luginbuhl, D Candinas, AK Exadaktylos, and H Zimmermann. The accuracy of FAST in relation to grade of solid organ injuries: a retrospective analysis of 226 trauma patients with liver or splenic lesion. *BMC Med Imaging* 2009; 9:3.

8. Wagner M, V Roh, M Strehlen, A Laemmle, D Stroka, B Egger, M Trochsler, KK Hunt, D Candinas, and SA Vorbürger. Effective Treatment of Advanced Colorectal Cancer by Rapamycin and 5-FU/Oxaliplatin Monitored by TIMP-1. *J Gastrointest Surg* 2009.
9. Banz VM, M Medova, A Keogh, C Furer, Y Zimmer, D Candinas, and D Stroka. Hsp90 transcriptionally and post-translationally regulates the expression of NDRG1 and maintains the stability of its modifying kinase GSK3beta. *Biochim Biophys Acta* 2009; 1793 (10):1597-603.
10. Vorbürger SA, L Ubersax, SW Schmid, M Balli, D Candinas, and CA Seiler. Long-Term Follow-Up After Complete Resection of Well-Differentiated Cancer Confined to the Thyroid Gland. *Ann Surg Oncol* 2009.
11. Kurmann A, Beldi G, Vorbürger SA, Seiler CA, Candinas D. Laparoscopic incisional hernia repair is feasible and safe after liver transplantation. *Surg Endosc.* 2010 Jun;24(6):1451-5.
12. Beldi G, Banz Y, Kroemer A, Sun X, Wu Y, Graubardt N, Rellstab A, Nowak M, Enyoji K, Li X, Junger WG, Candinas D, Robson SC. Deletion of CD39 on natural killer cells attenuates hepatic ischemia/reperfusion injury in mice. *Hepatology.* 2010 May;51(5):1702-11.
13. Brügger LE, Beldi G, Beck M, Porta F, Bracht H, Candinas D, Takala J, Jakob SM. Splanchnic vasoregulation after major abdominal surgery in pigs. *World J Surg.* 2010 Sep;34(9):2057-63
14. Banz VM, Christen B, Paul K, Martinolli L, Candinas D, Zimmermann H, Exadaktylos AK. Gender, age and ethnic aspects of analgesia in acute abdominal pain: is analgesia even across the groups? *Intern Med J.* 2012 Mar;42(3):281-8
15. Banz VM, Sperisen O, de Moya M, Zimmermann H, Candinas D, Mougiakakou SG, Exadaktylos AK. A 5-year follow up of patients discharged with non-specific abdominal pain: out of sight, out of mind? *Intern Med J.* 2012 Apr;42(4):395-401.
16. Beldi G, Wagner M, Bruegger LE, Kurmann A, Candinas D. Mesh shrinkage and pain in laparoscopic ventral hernia repair: a randomized clinical trial comparing suture versus tack mesh fixation. *Surg Endosc.* 2011 Mar;25(3):749-55
17. Renzulli P, Gross T, Schnüriger B, Schoepfer AM, Inderbitzin D, Exadaktylos AK, Hoppe H, Candinas D. Management of blunt injuries to the spleen. *Br J Surg.* 2010 Nov;97(11):1696-703.
18. Horisberger K, Beldi G, Candinas D. Loop ileostomy closure: comparison of cost effectiveness between suture and stapler. *World J Surg.* 2010 Dec;34(12):2867-71.
19. Dufour JF, Hoppe H, Heim MH, Helbling B, Maurhofer O, Szucs-Farkas Z, Kickuth R, Borner M, Candinas D, Saar B. Continuous administration of sorafenib in combination with transarterial chemoembolization in patients with hepatocellular carcinoma: results of a phase I study. *Oncologist.* 2010;15(11):1198-204
20. Kurmann A, Visth E, Candinas D, Beldi G. Long-term follow-up of open and laparoscopic repair of large incisional hernias. *World J Surg.* 2011 Feb;35(2):297-301-
21. Brügger L, Rosella L, Candinas D, Güller U. Improving outcomes after laparoscopic appendectomy: a population-based, 12-year trend analysis of 7446 patients. *Ann Surg.* 2011 Feb;253(2):309-13.
22. Angst E, Dawson DW, Stroka D, Gloor B, Park J, Candinas D, Reber HA, Hines OJ, Eibl G. N-myc downstream regulated gene-1 expression correlates with reduced pancreatic cancer growth and increased apoptosis in vitro and in vivo. *Surgery.* 2011 May;149(5):614-24.
23. Güller U, Rosella L, McCall J, Brügger LE, Candinas D. Negative appendectomy and perforation rates in patients undergoing laparoscopic surgery for suspected appendicitis. *Br J Surg.* 2011 Apr;98(4):589-95.
24. Banz VM, Paul K, de Moya M, Zimmermann H, Candinas D, Exadaktylos AK. Ignoring non-specific abdominal pain in emergency department patients may be related to decreased quality of life. A follow up of an underestimated problem. *Swiss Med Wkly.* 2011 Feb 18; 141:w13167.
25. Peterhans M, vom Berg A, Dagon B, Inderbitzin D, Baur C, Candinas D, Weber S. A navigation system for open liver surgery: design, workflow and first clinical applications. *nt J Med Robot.* 2011 Mar;7(1):7-16.
26. Herden U, Seiler CA, Candinas D, Schmid SW. Intrathyroid adenomas in primary hyperparathyroidism: are they frequent enough to guide surgical strategy? *Surg Innov.* 2011 Dec;18(4):373-8.
27. Schnüriger B, Martens F, Eberle BM, Renzulli P, Seiler CA, Candinas D. Treatment practice in patients with isolated blunt splenic injuries. A survey of Swiss traumatologists]. *Unfallchirurg.* 2013 Jan;116(1):47-52.

28. Kurmann A, Peter M, Tschan F, Mühlemann K, Candinas D, Beldi G. Adverse effect of noise in the operating theatre on surgical-site infection. *Br J Surg*. 2011 Jul;98(7):1021-5
29. Kurmann A, Vorburger SA, Candinas D, Beldi G. Operation time and body mass index are significant risk factors for surgical site infection in laparoscopic sigmoid resection: a multicenter study. *Surg Endosc*. 2011 Nov;25(11):3531-4.
30. Deyle S, Banz VM, Wagner M, Becker K, Inderbitzin D, Gloor B, Candinas D. Estimation of physiologic ability and surgical stress score does not predict immediate outcome after pancreatic surgery. *Pancreas*. 2011 Jul;40(5):723-9.
31. Kim-Fuchs C, Angst E, Vorburger S, Helbling C, Candinas D, Schlumpf R. Prospective randomized trial comparing sutured with sutureless mesh fixation for Lichtenstein hernia repair: long-term results. *Hernia*. 2012 Feb;16(1):21-7.
32. Banz V, Gsponer T, Candinas D, Güller U. Population-based analysis of 4113 patients with acute cholecystitis: defining the optimal time-point for laparoscopic cholecystectomy. *Ann Surg*. 2011 Dec;254(6):964-70.
33. Brügger LE, Beldi G, Stalder M, Porta F, Candinas D, Takala J, Jakob SM. Postoperative splanchnic blood flow redistribution in response to fluid challenges in the presence and absence of endotoxemia in a porcine model. *Shock*. 2012 Jan;37(1):116-21.
34. Brügger L, Bloesch M, Ipaktchi R, Kurmann A, Candinas D, Beldi G. Objective hypoesthesia and pain after transabdominal preperitoneal hernioplasty: a prospective, randomized study comparing tissue adhesive versus spiral tacks. *Surg Endosc*. 2012 Apr;26(4):1079-85.
35. Gass M, Rosella L, Banz V, Candinas D, Güller U. Bilateral total extraperitoneal inguinal hernia repair (TEP) has outcomes similar to those for unilateral TEP: population-based analysis of prospective data of 6,505 patients. *Surg Endosc*. 2012 May;26(5):1364-8.
36. Worni M, Witschi A, Gloor B, Candinas D, Laffer UT, Kuehni CE. Early closure of ileostomy is associated with less postoperative nausea and vomiting. *Dig Surg*. 2011;28(5-6):417-23.
37. Angst E, Kim-Fuchs C, Kuruvilla YC, Inderbitzin D, Montani M, Candinas D, Gloor B. How to counter the problem of R1 resection in duodenopancreatectomy for pancreatic cancer? *J Gastrointest Surg*. 2012 Mar;16(3):673.
38. Scholtes M, Kurmann A, Seiler CA, Candinas D, Beldi G. Intraperitoneal mesh implantation for fascial dehiscence and open abdomen. *World J Surg*. 2012 Jul;36(7):1557-61.
39. Laemmle A, Lechleiter A, Roh V, Schwarz C, Portmann S, Furer C, Keogh A, Tschan MP, Candinas D, Vorburger SA, Stroka D. Inhibition of SIRT1 impairs the accumulation and transcriptional activity of HIF-1 α protein under hypoxic conditions. *PLoS One*. 2012;7(3):e33433.
40. Schlammes S, Peter MK, Candinas D, Egger B. Extended abstract: long-term outcome of elective surgery--symptoms, cicatricial hernia and ileostomy/colostomy rate. *Dig Dis*. 2012;30(1):118-21.
41. Wagner OJ, Hagen M, Kurmann A, Horgan S, Candinas D, Vorburger SA. Three-dimensional vision enhances task performance independently of the surgical method. *Surg Endosc*. 2012 Oct;26(10):2961-8.
42. Sidler D, Renzulli P, Schnoz C, Berger B, Schneider-Jakob S, Flück C, Inderbitzin D, Corazza N, Candinas D, Brunner T. Colon cancer cells produce immunoregulatory glucocorticoids. *Oncoimmunology*. 2012 Jul 1;1(4):529-530.
43. Kurmann A, Martens F, Inglin R, Schmid SW, Candinas D, Seiler CA. Impact of surgical technique on operative morbidity and its socioeconomic benefit in thyroid surgery. *Langenbecks Arch Surg*. 2012 Oct;397(7):1127-31.
44. Kurmann A, Herden U, Schmid SW, Candinas D, Seiler CA. Morbidity rate of reoperation in thyroid surgery: a different point of view. *Swiss Med Wkly*. 2012 Aug 14;142:w13643.
45. Graubardt N, Fahrner R, Trochsler M, Keogh A, Breu K, Furer C, Stroka D, Robson SC, Slack E, Candinas D, Beldi G. Promotion of liver regeneration by natural killer cells in a murine model is dependent on extracellular adenosine triphosphate phosphohydrolysis. *Hepatology*. 2013 May;57(5):1969-79.
46. Gass M, Banz VM, Rosella L, Adamina M, Candinas D, Güller U. TAPP or TEP? Population-based analysis of prospective data on 4,552 patients undergoing endoscopic inguinal hernia repair. *World J Surg*. 2012 Dec;36(12):2782-6.

47. Banz V, Gsponer T, Candinas D, Güller U. Reply to: Population-Based Analysis of 4113 Patients With Acute Cholecystitis: Defining the Optimal Time Point for Laparoscopic Cholecystectomy. *Ann Surg.* 2012 Dec 14.
48. Wenning AS, Angst E, Lechleiter A, Brugger JJ, Candinas D, Gloor B. How do we apply video-assisted retroperitoneal necrosectomy with minimal access? *Dig Surg.* 2012;29(6):475-6.
49. Portmann S, Fahrner R, Lechleiter A, Keogh A, Overney S, Laemmle A, Mikami K, Montani M, Tschan MP, Candinas D, Stroka D. Antitumor effect of SIRT1 inhibition in human HCC tumor models in vitro and in vivo. *Mol Cancer Ther.* 2013 Apr;12(4):499-508.
50. Kurmann A, Barnetta C, Candinas D, Beldi G. Implantation of prophylactic nonabsorbable intraperitoneal mesh in patients with peritonitis is safe and feasible. *World J Surg.* 2013 Jul;37(7):1656-60.
51. Malinka T, Banz VM, Wagner J, Candinas D, Inderbitzin D. Incision length for kidney transplantation does not influence short- or long-term outcome: a prospective randomized controlled trial. *Clin Transplant.* 2013 Aug 8.
52. Bickelhaupt S, Studer P, Kim-Fuchs C, Candinas D, Froehlich JM, Patak MA. Gadoxetate uptake as a possible marker of hepatocyte damage after liver resection-preliminary data. *Clin Radiol.* 2013 Aug 7.
53. Schnüriger B, Laue J, Kröll D, Inderbitzin D, Seiler CA, Candinas D. Introduction of a new policy of no nighttime appendectomies: impact on appendiceal perforation rates and postoperative morbidity. *World J Surg.* 2014 Jan;38(1):18-24.
54. Schnüriger B, Studer P, Candinas D, Seiler CA. Transdiaphragmatic Resuscitative Open Cardiac Massage: Description of the Technique and a First Case-Series of an alternative Approach to the Heart. *World J.* 2014 Jul;38(7):1726-9.
55. Fahrner R, Patsenker E, Gottardi AD, Stickel F, Montani M, Stroka D, Candinas D, Beldi G. Elevated Liver Regeneration in Response to Pharmacological Reduction of Elevated Portal Venous Pressure by Terlipressin After Partial Hepatectomy. *Transplantation.* 2014 May 15;97(9):892-900.
56. Schnüriger B, Studer P, Candinas D, Seiler CA. Transdiaphragmatic resuscitative open cardiac massage: description of the technique and a first case-series of an alternative approach to the heart. *World J Surg.* 2014;28(7):1726-9.
57. Runge T, Blank A, Schäfer SC, Candinas D, Gloor B, Angst E. A retroperitoneal bronchogenic cyst mimicking a pancreatic or adrenal mass. *Case Rep Gastroenterol.* 2013 Oct 5; 7(3):428-32.
58. Castleberry AW, Güller U, Tarantino I, Berry MF, Brügger L, Warschkow R, Cerny T, Mantyh CR, Candinas D, Worni M. Discrete improvement in racial disparity in survival among patients with stage IV colorectal cancer: a 21-year population-based analysis. *J Gastrointest Surg.* 2014;18(6):1194-204.
59. Fahrner R, Malinka T, Klasen J, Candinas D, Beldi G. Additional surgical procedure is a risk factor for surgical site infections after laparoscopic cholecystectomy. *Langenbecks Arch Surg.* 2014 Jun;399(5):595-9.
60. Fahrner R, Trochsler M, Corazza N, Graubardt N, Keogh A, Candinas D, Brunner T, Stroka D, Beldi G. Tumor necrosis factor-related apoptosis-inducing ligand on NK cells protects from hepatic ischemia-reperfusion injury, *Transplantation.* 2014 Jun 15;97(11):1102-9.
61. Runge T, Borbély Y, Candinas D, Seiler C. Bilateral chylothorax following neck dissection: a case report. *BMC Res Notes.* 2014 May 22;7:311.
62. Studer P, Schnüriger B, Umer M, Kröll D, Inderbitzin D, Candinas D. Laparoscopic versus open end colostomy closure: a single-center experience. *Am Surg.* 2014 Apr;80(4):361-5
63. Kurmann A, Wanner B, Martens F, Klasen J, Montani M, Stickel, F, Candinas D, Beldi G. Hepatic steatosis is associated with surgical site infection after hepatic and colorectal surgery. *Surgery.* 2014 Jul;156(1):109-16.
64. Kim-Fuchs C, Winterhalder S, Winter A, Malinka T, Born D, Schäfer S, Stroka D, Gloor B, Candinas D, Angst E. The silencing of N-myc downstream-regulated gene-1 in an orthotopic pancreatic cancer model leads to more aggressive tumor growth and metastases. *Dig Surg.* 2014;31(2):135-42.
65. Kurmann A, Keller S, Tschan-Semmer F, Seelandt J, Semmer NK, Candinas D, Beldi G. Impact of Team Familiarity in the Operating Room on Surgical Complications. *World J Surg.* 2014 Dec;38(12):3047-52.

66. Seelandt JC, Tschan F, Keller S, Beldi G, Jenni N, Kurmann A, Candinas D, Semmer NK. Assessing distractors and teamwork during surgery: developing an event-based method for direct observation. *BMJ Qual Saf.* 2014 Nov;23(11):918-29
67. Stroka D, Keogh, Vu D, fort A, Stoffel MH, Kühni-Boghenbor K, Furer C, Banz V, Demarmels Biasiutti F, Lämmle B, Candinas D, Neerman-Arbez M. J. In vitro rescue of FGA deletion by lentiviral transduction of afibrinogenemic patient's hepatocytes. *J Thromb Haemost.* 2014 Nov;12(11):1874-9.
68. Brügger L, Inglin R, Candinas D, Sulser T, Eberli D. A novel animal model for external anal sphincter insufficiency. *Int J Colorectal Dis.* 2014 Nov;29(11):1385-92
69. Banz VM, Baechtold M, Weber S, Peterhans M, Inderbitzin D, Candinas D. Computer planned, image-guided combined resection and ablation for bilobar colorectal liver metastases. *World J Gastroenterol.* 2014 Oct 28;20(40):14992-6.
70. Inglin RA, Eberli D, Brügger LE, Sulser T, Williams NS, Candinas D. Current aspects and future prospects of total anorectal reconstruction--a critical and comprehensive review of the literature. *Int J Colorectal Dis.* 2015 Mar;30(3):293-302. doi: 10.1007/s00384-014-2065-x. Epub 2014 Nov 19.
71. Candinas D. Editorial. *Ther Umsch.* 2014 Dec; 71(12)699.
72. Schucht P, Banz V, Trochsler M, Iff S, Krähenbühl AK, Reinert M, Beck J, Raabe A, Candinas D, Kuhlen D, Mariani L. Laparoscopically assisted ventriculoperitoneal shunt placement: a prospective randomized controlled trial. *J Neurosurg.* 2015 May;122(5):1058-67.
73. Studer P, Vaucher A, Candinas D, Schnüriger B. The value of serial serum lactate measurements in predicting the extent of ischemic bowel and outcome of patients suffering acute mesenteric ischemia. *J Gastrointest Surg.* 2015 Apr;19(4):751-5.
74. Cathomas M, Schüller A, Candinas D, Inglin R. Severe postoperative wound healing disturbance in a patient with alpha-1-antitrypsin deficiency: the impact of augmentation therapy. *Cathomas M, Schüller A, Candinas D, Inglin R. Int Wound J.* 2015 Mar 26. [Epub ahead of print]
75. Studer P, da Silva CG, Revuelta Cervantes JM, Mele A, Csizmadia E, Siracuse JJ, Damrauer SM, Peterson CR, Candinas D, Stroka DM, Ma A, Bhasin M, Ferran C. Significant lethality following liver resection in A20 heterozygous knockout mice uncovers a key role for A20 in liver regeneration. *Cell Death Differ.* 2015 May 15. [Epub ahead of print]