

CURRICULUM VITAE – WALTER ZINGG



1. PERSONAL DATA

Titles, name	PD Dr Walter Zingg
Birth date and place:	19.05.1967, Bauma
Country of origin:	Switzerland
Marital status:	Married
Private addresses:	Chemin du Jonc 31 1218 Le Grand-Saconnex
Work address:	Hôpitaux Universitaires de Genève Service de prévention et contrôle de l'infection 4, Rue Gabrielle Perret-Gentil 1211 Genève +41 22 372 33 64 (phone) +41 22 372 39 87 (Fax) walter.zingg@hcuge.ch

2. PRESENT POSITION

- Attending physician (consultant) in the infection control programme at the University of Geneva hospitals since 4/2012
- Responsible for the hospital hygiene laboratory since 1/2012
- Consultant in paediatric infectious diseases since 1/2010
- Academic affiliation with Imperial College, London since 1/2015

3. DIPLOMA

- 1987 College degree, Kantonsschule Im Lee, Winterthur, Winterthur
- 1994 Medical school, University of Zurich, Zurich, Switzerland (Diploma)
- 1996 Postgraduate course in experimental biology and medicine, University of Zurich, Zurich, Switzerland (Diploma)
- 2004 Medical doctor degree: « Impact of an outbreak of norovirus infection on hospital resources » (Diploma)
- 2004 Specialist in Children and adolescent medicine (Diploma)
- 2004 Specialist in Infectious diseases (Diploma)
- 2015 Privat Docent at the University of Geneva

4. PROFESSIONAL TRAINING (PREGRADUATE)

- 10/1987 – 09/1988 Conservatory of Winterthur, Winterthur, Switzerland
- 10/1988 – 12/1994 Medical school, University of Zurich, Zurich, Switzerland

5. PROFESSIONAL ACTIVITIES (POSTGRADUATE)

- 01/1995 – 03/1995 Officer school, Swiss Army
- 04/1995 – 03/1996 Postgraduate course in experimental biology and medicine, University of Zurich, Zurich, Switzerland
- 04/1996 – 09/1997 Research fellow in molecular biology, University children's hospital, Zurich, Switzerland
- 10/1997 – 03/1998 Resident, Neonatology, Schweizerische Pflegerinnenschule, Zurich, Switzerland
- 04/1998 – 06/1998 Resident, Paediatrics, University children's hospital, Zurich, Switzerland
- 07/1998 – 09/1999 Resident, Paediatrics, Kantonsspital Winterthur, Switzerland
- 10/1999 – 09/2000 Resident, Paediatric intensive care, University children's hospital, Zurich, Switzerland
- 10/2000 – 06/2001 Resident, Paediatric infectious diseases, University children's hospital, Zurich, Switzerland
- 07/2001 – 09/2001 Resident, Paediatric intensive care, University children's hospital, Zurich, Switzerland
- 10/2001 – 12/2002 Resident, Adult infectious diseases, University hospital of Zurich, Zurich, Switzerland
- 01/2003 – 12/2003 Resident, Infection control programme, University hospital of Zurich, Zurich, Switzerland
- 01/2004 – 12/2004 Senior physician, Infection control programme, University hospital of Zurich, Zurich, Switzerland
- 01/2005 – 12/2006 Senior physician, General paediatrics, University children's hospital, Zurich, Switzerland
- 01/2007 – 12/2011 Senior research physician, Infection control programme, University of Geneva Hospitals, Geneva, Switzerland
- 01/2012 – 08/2014 Senior physician/consultant, Infection control programme, University of Geneva Hospitals, Geneva, Switzerland

09/2014 – 11/2014 Consultant, Infection control programme, Imperial College NHS Trust, London, UK
Since 12/2014 Senior physician/consultant, Infection control programme, University of Geneva Hospitals, Geneva, Switzerland

6. TEACHING ACTIVITIES

Teaching pregraduate:

- 3rd year student courses in microbiology
- 3rd year students in epidemiology

Teaching postgraduate:

- Infection control and microbiology, infection control training school
- Paediatric infectious diseases
- Supervision of theses

Teaching supports:

- Web-based E-learning: www.carepractice.net

7. RESEARCH

- Healthcare associated infection surveillance, neonatal intensive care unit. *Principal investigator*. Quality project. Since 01/2007.
- Yearly prevalence studies, University of Geneva Hospitals. *Coordinator*. Quality project. Since 01/2007.
- National surveillance of ESBL-producing Gram-negative pathogens in children's hospitals in Switzerland. Project in collaboration with the "Swiss Pediatric Surveillance Unit" (SPSU) and the National healthcare authorities. *Principal investigator* – Unrestricted Grant MSD: 10'000 CHF; 07/2008 – 06/2012.
- REDCO-CVC – CLABSI-prevention programme. Quality project of the University of Geneva Hospital. *Coordinator* – 200'000 CHF; Since 01/2008.
- PROMETHEUS: Project on stem cell derived treatment for Parkinson's disease. A "Synergia" project from the Swiss National Foundation. *Co-investigator* – 160'000 CHF; 04/2009 – 03/2013.
- Randomized controlled hand hygiene improvement project of the University of Geneva Hospitals, financed by the Swiss National Foundation. *Co-investigator* – 300'000 CHF; 04/2009 – 03/2013.
- PROHIBIT – "Prevention of hospital infections by intervention and training". European multicentre study within the FP7 framework". Financed by the European Commission. *Co-Coordinator of the project/consortium & Co-Investigator in InDepth qualitative work package* - 2'999'997 EUR; 01/2010 – 06/2014.

- SIGHT – “Systematic review and evidence-based guidance on the organisation of hospital infection control programmes “. A systematic review and definition of key components of infection control practices. A project issued by the European Centre for Disease Prevention and Control (ECDC). *Project Manager* – 180'000 EUR; 01/2011 – 10/2012.
- Spotlight project – Quality improvement project issue by the English Health Foundation. Collaboration with Imperial College London. *Expert* – 9'000 £.
- ECDC External validation: Support to HAI-Net meetings and visits to EU/EEA countries (OCS-2016-OUT-1821-MCKaJo). *Project Manager* – 78'250 EUR (for 2016); 01/2016 – 12/2018.
- Swiss Point Prevalence Survey about Healthcare-associated Infections and Antibiotic Use in acute-care hospitals. *Coordinator* – 705'600 CHF; 07/2016 – 06/2018.
- Swiss Point Prevalence Survey about Healthcare-associated Infections and Antibiotic Use in acute-care hospitals – Mortality/Cost analysis. *Coordinator* – 413'125 CHF; 04/2017 – 03/2019

8. ADMINISTRATIVE ACTIVITIES

- No administrative activity as part of the medical faculty at the University of Geneva.
- Multiple activities as expert e.g. for the European Centre for Disease Prevention and control, predominantly in the field of surveillance of healthcare-associated infections and epidemiological methods.

9. DISTINCTIONS

- 2007 Selection to attend the ICAAC ID Fellows Grant Programme; 47th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Chicago
- 2008 National congress of the Swiss Paediatric Society 2008, Lugano: Price for the best poster – “Use, Outcome and Risk of Central Venous or Arterial Lines in Neonatology”
- 2014 Swiss Society of Hospital Hygiene – Joint Meeting 2014, Aarau: 1st prize for best paper in infection control.

10. SOCIETY MEMBERSHIPS

- Swiss Medical Society
- Swiss Paediatric Society
- Swiss Infectious Diseases Society
- Swiss Society of Infection Control
- Paediatric Infectious Diseases Group of Switzerland
- European Society of Paediatric Infectious Diseases

- American Society of Microbiology

11. OFFICIAL FUNCTIONS

- President of the foundation "AIDS & Kind/AIDS and Child"
(www.aidsundkind.ch)

12. TECHNICAL FUNCTIONS

- Expert for the European Centre for Disease Prevention and Control
- Scientific expert in the following projects:
 - o Spotlight – Joint project between Imperial College of London, University of Leicester and University Hospital of Geneva
 - o ECDC-project PRECEPT: Adaptation of GRADE (widely accepted quality assessment tool) to observational studies for public health
 - o ECDC Burden project on healthcare-associated infections
 - o ECDC point prevalence survey (paediatric part and elaboration of indicators for outcome surveillance)
- Section editor of the following journals:
 - o Antimicrobial Resistance and Infection Control
 - o BMC Infectious Diseases
- Reviewer activities for the following journals:
 - o British Medical Journal
 - o American Journal of Infection Control
 - o Clinical Infectious Diseases
 - o Critical Care Medicine
 - o Critical Care
 - o Paediatric Infectious Diseases Journal
 - o Infection Control and Hospital Epidemiology
 - o Infection
 - o BMC Infectious Diseases
 - o European Journal of Clinical Microbiology & Infectious Diseases
 - o European Journal of Paediatrics
 - o Intensive Care Medicine
 - o International Journal of Surgery
 - o International Journal Infectious Diseases
 - o Indian Journal of Critical Care Medicine
 - o Clinical Anatomy
 - o Polymer
 - o European Journal of Anaesthesiology
 - o Surgical Oncology
 - o The Lancet Infectious Diseases
 - o JAMA
 - o International Journal for Quality in Health Care
 - o BMC Infectious Diseases
 - o Pediatrics
 - o Antimicrobial Resistance and Infection Control
 - o British Medical Journal

13. SUBSIDIES

- Healthcare associated infection surveillance, neonatal intensive care unit. *Principal investigator*. Quality project. Since 01/2007.
- Yearly prevalence studies, University of Geneva Hospitals. *Coordinator*. Quality project. Since 01/2007.
- National surveillance of ESBL-producing Gram-negative pathogens in children's hospitals in Switzerland. Project in collaboration with the "Swiss Pediatric Surveillance Unit" (SPSU) and the National healthcare authorities. *Principal investigator* – Unrestricted Grant MSD: 10'000 CHF; 07/2008 – 06/2012.
- REDCO-CVC – CLABSI-prevention programme. Quality project of the University of Geneva Hospital. *Coordinator* – 200'000 CHF; Since 01/2008.
- PROMETHEUS: Project on stem cell derived treatment for Parkinson's disease. A "Synergia" project from the Swiss National Foundation. Co-investigator – 160'000 CHF; 04/2009 – 03/2013.
- Randomized controlled hand hygiene improvement project of the University of Geneva Hospitals, financed by the Swiss National Foundation. Co-investigator – 300'000 CHF; 04/2009 – 03/2013.
- PROHIBIT – "Prevention of hospital infections by intervention and training". European multicentre study within the FP7 framework". Financed by the European Commission. *Co-Coordinator of the project/consortium & Co-Investigator in InDepth qualitative work package* - 2'999'997 EUR; 01/2010 – 06/2014.
- SIGHT – "Systematic review and evidence-based guidance on the organisation of hospital infection control programmes ". A systematic review and definition of key components of infection control practices. A project issued by the European Centre for Disease Prevention and Control (ECDC). *Project Manager* – 180'000 EUR; 01/2011 – 10/2012.
- Spotlight project – Quality improvement project issued by the English Health Foundation. Collaboration with Imperial College London. *Expert* – 9'000 £.
- External validation project for ECDC – Quality improvement project issued by the ECDC to improve the outcome of the ECDC PPS. *Principal investigator* – 76'000 EUR (for 2016).
- Swiss point prevalence survey 2017 – Quality improvement project by Swissnoso and supported by the Swiss Federal Office of Public Health. *Coordinator* – 760'000 CHF (2016-2018).

- Study on mortality and costs from healthcare-associated infections in Switzerland – A research project supported by the Swiss Federal Office of Public Health. *Coordinator* – 383'000 CHF (2017-2019).

14. PATENTS

- None

15. SUPERVISION OF THESES

- Laurent Sandoz: Surveillance hospitalière de l'utilisation des cathéters veineux centraux (2013), University of Geneva
- Lotfi Ghellai: Etude de l'effet des trois huiles essentielles sur la formation de biofilm à *Staphylococcus aureus* responsable d'infections nosocomiales (2015/2016), University of Tlemcen, Algeria
- Marie Zenobi: dissertation in preparation, University of Geneva
- Jiancong Wang; Institute of Global Health, Geneva: Perceived Norms of Infection Prevention Control (IPC) in the Intensive Care Unit (ICU) by the Healthcare Professionals (HPs) in the Selected Hospitals in the Shandong Province in China
- Lee Yew Fong; Institute of Global Health, Geneva: Improving hand hygiene in Malaysia.

16. PARTICIPATION AT CONFERENCES (PAST YEARS)

- The 50th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) 2010, Boston, USA – Invited speaker, abstract presentations (3)
- The 1st World Congress on Vascular Access (WoCoVA) 2010, Amsterdam, The Netherlands – Invited speaker
- The Annual Meeting of the Swiss Infectious Diseases Society/Swiss Society for Hospital Hygiene 2010, Lausanne, Switzerland – Invited speaker
- The 20th European Conference on Clinical Microbiology and Infectious Diseases (ECCMID) 2011, Vienna, Austria – Invited speaker
- The 51st Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) 2011, Chicago, USA – Invited speaker
- The 1st International Conference on Prevention and Infection Control (ICPIC) 2011, Geneva, Suisse – Invited speaker, presentation of abstracts
- The 21st European Conference on Clinical Microbiology and Infectious Diseases (ECCMID) 2011, Milan, Italy
- The 52nd Meeting of the European Society for Paediatric Research (ESPR) 2011, Newcastle, UK – Invited speaker
- The 22nd European Conference on Clinical Microbiology and Infectious Diseases (ECCMID) 2012, London, UK
- The 30th Annual Meeting of the European Society for Paediatric Infectious Diseases (ESPID) 2012, Thessaloniki, Greece – Invited speaker
- The 52nd Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) 2012, San Francisco, USA – Invited speaker, oral abstract presentations (late breaker)

- The 6th Iranian Congress of Clinical Microbiology & The First International Congress of Clinical Microbiology 2012, Mashhad, Iran – Invited speaker
- The 23rd European Conference on Clinical Microbiology and Infectious Diseases (ECCMID) 2013, Berlin, Germany – Invited speaker
- The 2nd International Conference on Prevention and Infection Control (ICPIC) 2013, Geneva, Suisse – Invited speaker, oral presentation of abstracts (4)
- The 53rd Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) 2013, Denver, USA – Invited speaker
- Annual conference of the Infection Prevention Society (IPS 2013, London, UK – Invited speaker
- The 32nd Annual Meeting of the European Society for Paediatric Infectious Diseases (ESPID) 2014, Dublin, Ireland – Oral abstract presentation (late breaker)
- The 4th International Congress of the Union of European Neonatal and Perinatal Societies (UENPS) 2014, Athens, Greece – Invited speaker, keynote speaker
- The 24th Day of Hospital Hygiene 2014, Gent, Belgium – Keynote speaker
- Herausforderungen für die nosokomiale und sektorübergreifende Infektions- und Resistenzprävention, Voneinander lernen im D-A-CH Dialog 2014, Aeskulap Akademie, Tuttingen, Germany – Invited speaker
- The 3rd Joint meeting of the Antimicrobial Resistance and Healthcare-associated Infection (ARHAI) Networks 2015, Stockholm, Sweden – Scientific participation
- The 1st CEE Conference on Hospital Hygiene and Patient Safety 2015, Vienna, Austria – Invited speaker
- The 1st International Congress on Prevention Strategies for Healthcare-associated Infections 2015, Mashhad, Iran – Invited speaker
- 15. Onko-KISS Treffen - . Surveillance nosokomialer Infektionen bei Knochenmark und Blutstammzell- Transplantationen und bei Akuten Leukämien 2015, Freiburg im Breisgau, Germany – Invited speaker
- The 16th Conference of the European Federation of National Associations of Orthopaedics and Traumatology (EFORT) 2015, Prague, Czech Republic – Invited speaker
- 26^{ème} Congrès National de la Société Française d'Hygiène Hospitalière 2015, Tours, France – Invited speaker
- The 3rd International Conference on Prevention and Infection Control (ICPIC) 2015, Geneva, Suisse – Invited speaker, presentation of abstracts, organizing committee
- The Annual Meeting of the Swiss Infectious Diseases Society/Swiss Society for Hospital Hygiene/Swiss Society for Intensive Care 2015, Interlaken, Switzerland – Invited speaker
- The 55th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) 2015, San Diego, USA – Invited speaker
- 7 Internationaler Kongress "Sepsis and Multiorgan Dysfunction"; Weimar Sepsis Update "Precision Medicine for Sepsis" 2015, Weimar, Germany – Invited speaker
- Freiburger Hygiene- und Infektiologiekongress 2015, Freiburg, Germany – Invited speaker
- The 26th European Conference on Clinical Microbiology and Infectious Diseases (ECCMID) 2016, Amsterdam, The Netherlands – Invited speaker
- ASM-Microbe Conference 2016, Boston, USA – Invited speaker
- The 20th Conference on Clinical Microbiology and Infectious Diseases 2016, Warsaw, Poland – Invited speaker

17. SEMINARS (PAST 5 YEARS)

- January 2010: Clinical Investigators Course I – Bern, Switzerland
- June 2010: Clinical Investigators Course II – Bern, Switzerland
- November 2010: SSP/PIGS-Infectious Diseases Training Course, Zürich, Switzerland
- August 2011: Qualitative Research Methods I, Ann Arbor, USA
- November 2011: ESN Course: Preventing Neonatal Infection, Newcastle, UK (Speaker)
- October 2011: 9. Hygienesymposium, Vevey, Switzerland (Speaker)
- December 2011: GINERB-SIMIT WORKSHOP - Prevention, diagnosis and treatment of healthcare associated infections in “real” life, Rome, Italy (Speaker)
- February 2013: ESCMID/University of Geneva Hospitals-WHO Collaborating Center on Patient Safety / University of Tubingen, TECHNICAL WORKSHOP, Geneva, Switzerland (Speaker)
- February 2014: Infection Control – The science of profession, Riyadh, Saudi Arabia (Speaker)
- August 2014: International workshop of infection control practices, Kaoshiung/Taichung/Taipeh, Taiwan 2014 (Trainer, speaker)

18. COMMENTS

- None

19. DATE SIGNATURE

Genève, 15 September 2017

PUBLICATIONS

A. Original articles published or accepted in peer-reviewed journals

- **Zingg W**, Bossart W, Berli E, Nadal D. Detection and quantification of cell-free Epstein-Barr virus by polymerase chain reaction and subsequent DNA enzyme immunoassay. *J Virol Methods*. 1999; 79: 141-148.
Impact factor: 2.2; Citations: 20
- Berger C, Day P, Meier G, **Zingg W**, Bossart W, Nadal D. Dynamics of Epstein-Barr virus DNA levels in serum during EBV-associated disease. *J Med Virol*. 2001; 64: 505-512.
Impact factor: 2.6; Citations: 52
- **Zingg W**, Colombo C, Jucker T, Bossart W, Ruef C. Impact of an outbreak of norovirus infection on hospital resources. *Infect Control Hosp Epidemiol*. 2005; 26: 263-267.
Impact factor: 3.0; Citations: 42
- Rudin C, Burri M, Shen Y, Rode R, Nadal D; **Pediatric Infectious Diseases Group of Switzerland**; Swiss Mother and Child HIV Cohort Study (MoCHiV). Long-term safety and effectiveness of ritonavir, nelfinavir, and lopinavir/ritonavir in antiretroviral-experienced HIV-infected children. *Pediatr Infect Dis J*. 2008; 27: 431-437.
Impact factor: 3.3; Citations: 11
- **Zingg W**, Imhof A, Maggiorini M, Stocker R, Keller E, Ruef C. Impact of a Prevention Strategy Targeting Hand Hygiene and Catheter Care on the Incidence of Catheter-Related Bloodstream Infection. *Crit Care Med*. 2009; 37: 2167-2173.
Impact factor: 6.7; Citations: 78
- Corti N, Heck A, Rentsch K, **Zingg W**, Jetter A, Stieger B, Pauli-Magnus C. Effect of ritonavir on pharmacokinetics of mebendazole and albendazole: An interaction study in healthy volunteers. *Eur J Clin Pharmacol*. 2009; 65: 999-1006.
Impact factor: 2.6; Citations: 8
- **Zingg W**, Sax H, Inan C, Cartier V, Diby M, Clergue F, Pittet D, Walder B. Hospital-wide surveillance of catheter-related bloodstream infection: from the expected to the unexpected. *J Hosp Infect*. 2009; 73: 41-46.
Impact factor: 3.0; Citations: 43
- **Zingg W**, Demartines N, Imhof A, Senn G, Ruef C. Rapid colonization with methicillin-resistant coagulase-negative staphylococci after surgery. *World J Surg*. 2009; 33: 2058-2062.
Impact factor: 2.7; Citations: 11
- Fankhauser C, **Zingg W**, Francois P, Dharan S, Schrenzel J, Pittet D, Harbarth S. Surveillance of Extended-Spectrum- β -Lactamase Producing *Enterobacteriaceae* in a Tertiary Care Hospital. *Swiss Med Weekly*. 2009; 139: 747-751.
Impact factor: 1.7; Citations: 19
- Knirsch W, **Zingg W**, Bernet V, Balmer C, Dimitropoulos A, Pretre R, Bauersfeld U, Latal B. Determinants of body weight gain and association with neurodevelopmental outcome in infants operated for congenital heart disease. *Interact Cardiovasc Thorac Surg*. 2009; 10: 377-382.
Impact factor: 1.2; Citations: 4

- Myers C, Posfay-Barbe KM, Aebi C, Cheseaux JJ, Kind C, Rudin C, Nadal D, Siegrist CA; **Pediatric Infectious Disease Group of Switzerland (PIGS)**; Swiss Mother and Child HIV Cohort Study (MoCHiV). Determinants of vaccine immunity in the cohort of human immunodeficiency virus-infected children living in Switzerland. *Pediatr Infect Dis J*. 2009; 28: 996-1001.
Impact factor: 3.3; Citations: 9
- Rudin C, Wolbers M, Nadal D, Rickenbach M, Bucher HC; **Pediatric Infectious Disease Group of Switzerland (PIGS)**; Swiss Mother and Child HIV Cohort Study (MoCHiV). Long-term safety and effectiveness of lopinavir/ritonavir in antiretroviral-experienced HIV-1-infected children. *Arch Dis Child*. 2010; 95: 478-481.
Impact factor: 2.6; Citations: 8
- **Zingg W**, Pfister R, Posfay-Barbe K, Touveneau S, Pittet D. Secular Trends in Antibiotic Use among Neonates: 2001-2008. *Pediatr Infect Dis J*. 2011; 30: 365-370.
Impact factor: 3.3; Citations: 21
- **Zingg W**, Posfay-Barbe K, Pfister R, Touveneau S, Pittet D. Individualized Catheter Surveillance among Neonates: A Prospective 8-Year Single Center Experience. *Infect Control Hosp Epidemiol*. 2011; 32: 42-49.
Impact factor: 3.0; Citations: 10
- **Zingg W**, Sandoz L, Inan C, Cartier V, Clergue F, Pittet D, Walder B. Hospital-wide survey of the use of central venous catheters. *J Hosp Infect*. 2011; 77: 304-308.
Impact factor: 3.0; Citations: 17
- Taguebue J, Monebenimp F, **Zingg W**, Mve Koh V, Atchoumi A, Gervais A, Tetanye E. Risk Factors for Prematurity among Neonates from HIV Positive Mothers in Cameroon. *World J AIDS*. 2011; 1: 1-7.
Impact factor: NA; Citations: NA
- Barrera L, **Zingg W**, Mendez F, Pittet D. Effectiveness of alcohol-based handrub for healthcare-associated infection prevention in 6 intensive care units in Colombia. *Am J Infect Control*. 2011; 39: 633-639.
Impact factor: 3.1; Citations: 16
- L'Huillier AG, Ferry T, Courvoisier DS, Aebi C, Cheseaux JJ, Kind C, Rudin C, Nadal D, Hirschel B, Sottas C, Siegrist CA, Posfay-Barbe KM; **Pediatric Infectious Diseases Group of Switzerland**; Group of Switzerland (PIGS); Swiss HIV Cohort Study (SHCS); Swiss Mother & Child HIV Cohort Study (MoCHiV). Impaired antibody memory to varicella zoster virus in HIV-infected children: low antibody levels and avidity. *HIV Med*. 2012; 13: 54-61.
Impact factor: 3.6; Citations: 5
- Heidegger CP, Berger MM, Graf S, **Zingg W**, Darmon P, Thibault R, Pichard C. Optimization of energy provision with supplemental parenteral nutrition improves the clinical outcome of critical ill patients: a randomized controlled clinical trial. *Lancet*. 2013; 381: 385-393.
Impact factor: 38; Citations: 266
- Martin M, **Zingg W**, Hansen S, Gastmeier P, Wu A, Pittet D, Dettenkofer M, on behalf of the PROHIBIT study group. Public reporting of healthcare-associated infection data in Europe – What are the views of infection prevention opinion leaders? *J Hosp Infect*. 2013; 83: 94-98.

Impact factor: 3.0; Citations: 14

- Hansen S, Schwab F, Behnke M, Geffers C, Gastmeier P, on behalf of the **PROHIBIT study group**. Compliance with national guidelines for the prevention of central venous catheter-associated infections in German intensive care units. *Dtsch Med Wochenschr* 2013; 138: 1706-1710.
Impact factor: 0.5; Citations: 0
- Sax H, Clack L, Touveneau S, Da Liberdade F, Pittet D, **Zingg W**, on behalf of the PROHIBIT study group. Implementation of infection control best practice in intensive care units throughout Europe: a mixed-method evaluation study. *Implementation Science* 2013; 8: 24.
Impact factor: 3.2; Citations: 5
- **Zingg W**, Huttner B, Sax H, Pittet D. Monitoring healthcare-associated infections by period vs point prevalence – What is the difference. *Infect Control Hosp Epidemiol* 2014; 35: 674-684.
Impact factor: 3.0; Citations: 13
- Cartier V, Haenny A, Inan C, Walder B, **Zingg W**. No association between ultrasound-guided insertion technique and bloodstream infections in central venous catheters – A prospective observational study. *J Hosp Infect* 2014; 87: 103-108.
Impact factor: 3.0; Citations: 5
- **Zingg W**, Cartier V, Inan C, Touveneau S, Theriault M, Pittet D, Walder B. Hospital-wide Multidisciplinary and Multimodal Intervention Program to Reduce Central Venous Catheter Related Bloodstream Infections. *PLOS One* 2014; 9:e93898.
Impact factor: 4.2; Citations: 16
- **Zingg W**, Holmes A, Dettenkofer M, Clack L, Secchi F, Goetting T, Magiorakos A, Pittet D, and the SIGHT-study group. Hospital organization, management and structure in the context of healthcare associated infection prevention - a systematic review. *Lancet Infect Dis* 2015; 15: 212-224.
Impact factor: 19.7; Citations: 51
- Ghellai L, Hassaine H, Klouche N, Khadir A, Aissaoui N, Nas F, **Zingg W**. Detection of biofilm formation of a collection of fifty strains of *Staphylococcus aureus* isolated in Algeria at the University Hospital of Tlemcen. *J Bacteriol Res* 2014; 6: 1-6.
Impact factor: NA; Citations: NA
- Ghellai L, Hassaine H, Klouche-Hkelil N, Nas F, Aissaoui N, Hoceini A, Ziouane S, **Zingg W**. Antibacterial efficacy of essential oils of three aromatic plants in combination with povidone-iodine against *Staphylococcus aureus* grown in biofilm cultures. *J Appl Pharm Sci* 2014; 4: 88-93.
Impact factor: NA; Citations: NA
- Martin M, **Zingg W**, Knoll E, Wilson C, Dettenkofer M on behalf of the PROHIBIT study group. National European guidelines for the prevention of *Clostridium difficile* infection. *J Hosp Infect* 2014; 87: 212-219.
Impact factor: 3.0; Citations: 12

- Harder T, Abu Sin M, Bosch-Capblanch X, Bruno Coignard, de Carvalho Gomes H, Duclos P, Eckmanns T, Elder R, Ellis S, Forland F, Garner P, James R, Jansen A, Krause G, Lévy-Bruhl D, Morgan A, Meerpohl JJ, Norris S, Rehfues E, Sánchez-Vivar A, Schünemann H, Takla A, Wichmann O, **Zingg W**, Zuiderent-Jerak T. Towards a framework for evaluating and grading evidence in public health. *Health Policy* 2015; 119 ; 732-736.
Impact factor: 2.2; Citations: 3
- Thibault R, Makhlouf AM, Kossovsky MP, Iavindrasana J, Chikhi M, **Zingg W**, Pichard C. Healthcare-associated infections are associated with insufficient food intake: an observational cross-sectional study. *PLOS One* 2015;10: e0123695
Impact factor: 4.2; Citations: 4
- **Zingg W**, Castro-Sanchez E, Secchi F, Edwards E, Drumright LN, Sevdalis N, Holmes A. Innovative tools for quality assessment: integrated quality criteria for review of multiple study designs (ICROMS). *Public Health* 2015; 133: 19-37.
Impact factor: 1.6; Citations: 4
- Hansen S, **Zingg W**, Ahmad R, Kyratsis Y, Behnke M, Schwab F, Pittet D, Gastmeier P, on behalf of the PROHIBIT study group. Organisation of Infection Control in European Hospitals. *J Hosp Infect* 2015; 91:338-345
Impact factor: 3.1; Citations: 4
- Haller S, Deindl P, Cassini A, Suetens C, **Zingg W**, Abu Sin M, Velasco E, Weiss B, Ducomble T, Sixtensson M, Eckmanns T, Harder T. Neurological sequelae of sepsis in very low birth weight infants: Umbrella review and evidence-based outcome tree . *Eurosurveillance* 2015 Dec 15. pii: S0033-3506(15)00422-9. doi: 10.1016/j.puhe.2015.10.012. [Epub ahead of print].
Impact factor: 4.3; Citations: 1
- Ahmad R, Iwami M, Castro-Sanchez E, Husson F, Taiyari K, **Zingg W**, Holmes A. Defining the user role in infection control. *J Hosp Infect* 2015; 92: 321-327.
Impact factor: 3.1; Citations: 2
- Hansen S, Schwab F, Gastmeier P, on behalf of the **PROHIBIT study group**. Provision and consumption of alcohol-based handrubs in European hospitals. *Clin Microbiol Infect* 2015; 21: 1047-1051.
Impact factor: 5.2; Citations: 10
- Bellissimo-Rodrigues F, Pires D, **Zingg W**, Pittet D. Role of parents in the promotion of hand hygiene in the paediatric setting: a systematic review. *J Hosp Infect* 2016; 93: 149-163.
Impact factor: 3.1; Citations: 0
- Cartier V, Inan C, **Zingg W**, Delhumeau C, Walder B, Salvodelli GL. Simulation-based medical education training improves short and long-term competency in, and knowledge of central venous catheter insertion: A before and after intervention study. *Eur J Anaesthesiol* 2016; 33: 568-574.
Impact factor: 3.1; Citations: 2
- Araujo da Silva AR, **Zingg W**, Dramowski A, Bielicki JA, Sharland M. Most international guidelines on prevention of healthcare-associated infection lack comprehensive recommendations for neonates and children. *J Hosp Infect* 2016; 94: 159-162.
Impact factor: 3.1; Citations: 2

- Stewardson AJ, Sax, H, Gayet-Ageron A, Touveneau S, Longtin Y, **Zingg W**, Pittet D. Enhanced performance feedback and patient participation to improve hand hygiene compliance of healthcare workers in the setting of established multimodal promotion: a single-centre, cluster randomised controlled trial. *Lancet infect Dis* 2016; 16: 1345-1355.
Impact factor: 19.3; Citations: 3
- **Zingg W**, Haidegger T, Pittet D. Hand coverage by alcohol-based handrub varies: Volume and hand size matter. *Am J Infect Control* 2016; 44: 1689-1691.
Impact factor: 2.2; Citations: 1
- **Zingg W**, Hopkins S, Gayet-Ageron A, Holmes A, Sharland M, Suetens C, and the ECDC PPS study group. Healthcare-associated infections in neonates and children in the first European point prevalence survey. *Lancet infect Dis* pii: S1473-3099(16)30517-5.
Impact factor: 19.3; Citations: 4
- Storr J, Twyman A, **Zingg W**, Damani N, Kilpatrick C, Reilly J, Price L, Egger M Grayson ML, Allegranzi B, and the WHO Guidelines Development Group. WHO guidelines on core components for infection prevention and control programmes at the national and acute healthcare level. *Antimicrob Resist Infect Control* 2017; 6:6. doi: 10.1186/s13756-016-0149-9.
Impact factor: 2.7; Citations: 2
- Wang J, Hu J, Harbarth S, Pittet D, Zhou M, **Zingg W**. Burden of healthcare-associated infections in China – Results of the 2015-point prevalence survey in Dong Guan City. *J Hosp Infect* 2017; 96: 132-38.
Impact factor: 3.1; Citations: 0
- Nunez-Nunez M, Navarro MD, Palomo V, Rahendran NB, Del Toro MD, Voss A, Sharland M, Sifakis F, Tacconelli E, Rodriguez-Bano J; members of EPI-NET, COMBACTE-magnet and **EUCIC group** for SUSPIRE. The methodology of surveillance for antimicrobial resistance and healthcare-associated infections in Europe (SUSPIRE): A systematic review of publicly available information. *Clin Microbiol Infect* 2017 ; [Epub ahead of print]
Impact factor: 5.2; Citations: NA
- Araujo da Silva AR, Albernaz de Almeida Dias DC, Marques AF, Biscaia di Biase C, Murni IK, Dramowski A, Sharland M, Huebner J, Zingg W. The role of antimicrobial stewardship programmes in children: a systematic review. *J Hosp Infect* 2017 ; [Epub ahead of print]
Impact factor: 3.1; Citations: NA

B. Case reports published or accepted in peer-reviewed journals

- **Zingg W**, Kellenberger C, Frey B, Grimm F, Berger C. A 7-year-old girl with dyspnea and rash. *Clin Infect Dis*. 2003; 37: 73-74; 129-130.
Impact factor: 7.6; Citations: 1
- **Zingg W**, Renner-Schneiter EC, Pauli-Magnus C et al. Alveolar echinococcosis of the liver in an adult with human immunodeficiency virus type-1 infection. *Infection*. 2004; 32: 299-302.
Impact factor: 2.0; Citations: 32

- Zinkernagel AS, Speck RF, Ruef C, **Zingg W**, Berger-Bachi B, Springer B. Rapidly destructive *Staphylococcus epidermidis* endocarditis. *Infection*. 2005; 33: 148-150. Impact factor: 2.0; Citations: 7

C. Review articles published or accepted in peer-reviewed journals

- Preynaut-Seauve O, Burkhard PR, Villard J, **Zingg W**, Ginovart N, Feki A, Dubois-Dauphin M, Hurst S, Mauron A, Jaconi M, Krause KH. Pluripotent stem cells as new drugs? The example of Parkinson's disease. *International Journal of Pharmaceutics*. 2009; 381: 113-121. Impact factor: 3.3; Citations: 11
- **Zingg W**, Pittet D. Peripheral venous catheters: an under-evaluated problem. *Int J Antimicrob Agents*. 2009; 34: S38-S42. Impact factor: 3.8; Citations: 45
- **Zingg W**, Tomaske M, Martin M. Risk of Parenteral Nutrition in Neonates—An Overview. *Nutrients*. 2012; 4: 1490-1503. Impact factor: 3.7. Citations: 7
- Janum S, **Zingg W**, Classen V, Afshari A. Challenges of diagnostic, care and prevention of central catheter-related bloodstream infections in children. *Crit Care*. 2013; 17: 238-249. Impact factor: 5.0. Citations: 4
- Aelami MH, Lotfi M, **Zingg W**. Ventilator-associated pneumonia in neonates, infants and children – A review. *Antimicrob Resist Infect Control* 2014; 3: 30. Impact factor: 3.0; Citations: 3
- **Zingg W**, Mutters N, Harbarth S, Friedrich A. Education in infection control: a need for European certification. *Clin Microbiol Infect* 2015; S1198-743X(15)00815-0. Impact factor: 5.2; Citations: 3

D. Editorials published or accepted in peer-reviewed journals

- Pittet D, **Zingg W**. Reducing ventilator-associated-pneumonia: where process control allows outcome improvement and even benchmarking. *Crit Care Med*. 2010; 38: 983-984. Impact factor: 6.7; Citations: 7
- **Zingg W**, Walder B. Reduction of central line complications: Think “procedure” before “gadget”. *Eur J Anaesthesiol*. 2011; 28: 316-317. Impact factor: 2.8; Citations: 0
- **Zingg W**, Pittet D. Electronic-eye faucets – Curse or blessing? *Infect Control Hosp Epidemiol*. 2012; 33: 241-242. Impact factor: 3.0; Citations: 0
- **Zingg W**, Pittet D. Stopcock contamination – The source does not explain it all. *Anesthesia and Analgesia*. 2012; 114: 1151-1152. Impact factor: 3.3; Citations: 2
- **Zingg W**, Pittet D. Central-line bundles need a multimodal implementation strategy. *Lancet Infect Dis* 2016; 16: 631-632. Impact factor: 19.3; Citations: 0

E. Letters published or accepted in peer-reviewed journals

- **Zingg W**, Imhof A, Maggiorini M, Stocker R, Keller E, Ruef C. Impact of a Prevention Strategy Targeting Hand Hygiene and Catheter Care on the Incidence of Catheter-Related Bloodstream Infection. *Crit Care Med.* 2009; 37: 2999.
Impact factor: 6.7; Citations: 0
- Heidegger CP, Berger MM, Thibault R, **Zingg W**, Pichard C. Supplemental parenteral nutrition in critically ill patients. *Lancet.* 2013; 381: 1716-1717.
Impact factor: 38; Citations: 5
- **Zingg W**, Cartier V, Walder B. No association between ultrasound-guided insertion of central venous catheters and bloodstream infection: a prospective observational study. Letter. *J Hosp Infect* 2015; 90: 82.
Impact factor: 3.1; Citations: 0
- **Zingg W**, Holmes A, Magiorakos AP, Pittet D. Health-care-associated infections – Author’s reply. *Lancet Infect Dis* 2015; 15: 764.
Impact factor: 19.7; Citations: 0
- Araujo da Silva AR, **Zingg W**, Dramowski A, Bielicki JA, Sharland M. Reply to: “Guidelines on prevention of healthcare-associated infection in neonates and children”. *J Hosp Infect* 2016; 94: 257-258.
Impact factor: 3.1; Citations: 0

F. Original articles submitted to peer-reviewed journals

- van der Kooi T, Sax H, van Dissel J, van Benthem B, de Greeff S, Wolkewitz M, Hieke S, Boshuizen H, van de Kasstelee J, van den Abeele A, Wee Boo T, Diab-Elschahawi M, Dumpis U, Ghita C, Fitzgerald S, Lejko T, Leleu K, Palomar Martinez M, Paniara O, Patyi M, Schwab P, Raglio A, Szilagyi E, Zietkiewicz M, Wu A, Pittet D, Grundmann H, **Zingg W**, on behalf of the PROHIBIT consortium. Prevention of Hospital Infections by Intervention and Training (PROHIBIT): Results of a randomized multi-centre study to reduce central venous catheter-related bloodstream infections.
- Clack L, **Zingg W**, Casillas A, Touveneau S, da Liberdade Jantarada F, Willi U, Pittet D, Sax H, on behalf of the PROHIBIT consortium. In-depth qualitative investigation of success factors for adoption and implementation of infection prevention practices in European Hospitals.
- Garcia-Gasella M, Wang J, **Zingg W**. Peripherally inserted central venous catheter-associated bloodstream infections: a systematic review and meta-analysis.
- **Zingg W**, Hopkins S, Holmes A, Sharland M, Reilly J, Suetens C, and the ECDC PPS study group. Antimicrobial consumption in neonates, children, and adolescents: an analysis of paediatric data from the European Centre for Disease Prevention and Control point prevalence survey.

- Wang J, Liu F, Tartari E, Huang J, Harbarth S, Pittet D, **Zingg W**. The prevalence of healthcare-associated infections in Mainland China – A systematic review and meta-analysis

G. Original articles, reviews or letters published or accepted in non-peer-reviewed journals

- **Zingg W**. Does vaccination cause disease? *Ther Umsch*. 2005; 62: 665-674.
Impact factor: nd; Citations: 2
- **Zingg W**. Viral Gastroenteritis. *Der Gastroenterologe*. 2007; 2: 179-185.
Impact factor: nd; Citations: nd
- **Zingg W**, Posfay-Barbe K, Pittet D. Healthcare-associated infections in neonates. *Curr Opin Infect Dis*. 2008; 21: 228-234.
Impact factor: 4.5; Citations: 17
- **Zingg W**, Cartier-Fässler V, Walder B. Central venous catheter-associated infections. *Best Practice & Research Clinical Anaesthesiology*. 2008; 22: 407-421.
Impact factor: ND; Citations: 25
- **Zingg W**, Walder B, Pittet D. Prevention of catheter-related infection: towards zero risk?. *Curr Opin Infect Dis*. 2011; 24: 377-384.
Impact factor: 4.5; Citations: 20
- **Zingg W**, Posfay-Barbe KM. Antibiotic use in children – Off-label use. *Curr Drug Targets*. 2012; 13: 885-892.
Impact factor: 3.1; Citations: 4
- Balkhy H, **Zingg W**. Update on infection control challenges in special pediatric populations. *Curr Opin Infect Dis* 2014; 27: 370-378.
Impact factor: 4.5; Citations: 1

H. Book chapters

- **Zingg W**, Eggimann P, Pittet D. Acute Bloodstream Infections. In: Textbook of Critical Care. 6th Edition. Elsevier Saunders. Philadelphia, PN. Chapter 155.
- **Zingg W**, Pittet D. “Endovascular Infections and Endocarditis” in “Principles and Practice of Transplant Infectious Diseases”; In press.
- **Zingg W**, Harbarth S. “Device-related infection diagnosis, prevention and treatment “ in “Oxford Textbook of Critical Care, 2nd edition”
- **Zingg W**, Marschall J. “Surveillance and prevention of infections associated with vascular catheters” in “SHEA Practical Healthcare Epidemiology”; In press

I. Doctoral thesis

- “Impact of an outbreak of Norovirus Infection on hospital resources”, Faculty of medicine, University of Zurich, Zurich, Switzerland

J. Guidelines and recensions

- WHO Guidelines on Hand Hygiene in Health Care – 2009
(Critical contribution to the guidelines)
- **Zingg W**, Harbarth S. Infectious diseases in the paediatric intensive care unit. *Crit Care*. 2008; 12: 306.
Impact factor: 4.9; Citations: nd
- **Zingg W**, Harbarth S. Infectious Disease: Pathogenesis, Prevention, and Case Studies. *Critical Care*. 2009; 13: 307.
Impact factor: 4.9; Citations: nd
- The Joint Commission. Central Line-Associated Bloodstream Infections; A Global Challenge, A Global Perspective – 2012. Member of the **Expert Committee**.
- WHO Guidelines on Core Components of Infection Prevention and Control Programmes at the National and Acute Health Care Facility Level – 2016
(WHO guidelines development group; systematic review expert group)

H-INDEX: 16
Citations: 998
Citations without self-citations: 922