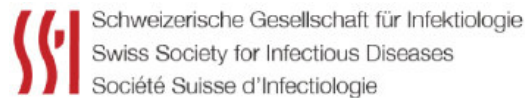
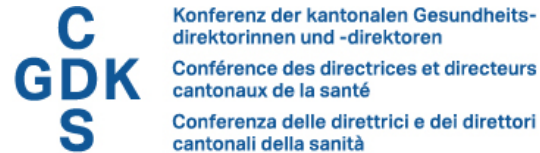
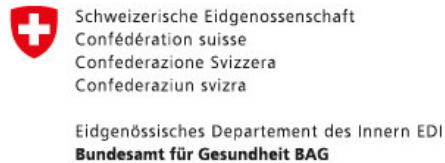


# **Strukturelle Mindestanforderungen für die Prävention und Bekämpfung von healthcare-assoziierten Infektionen (HAI) in Schweizer Akutspitälern**

Prof. Andreas Widmer, MD,MS,FIDSA,FSHEA

Präsident Swissnoso

## Breite Unterstützung für die strukturellen Mindestanforderungen



Nationales Zentrum für Infektionsprävention  
Centre national de prévention des infections  
Centro nazionale per la prevenzione delle infezioni  
National Center for Infection Control



### Mindestanforderungen

19. Mai 2022

## Safety Rating Criteria for commercial airlines: The safety rating 3 star

- **Has the airline experienced a (preventable) fatal crash (>1 death) in the last 10 years?**
  - If yes, no star
- **Has the airline suffered numerous serious pilot related incidents? (no: 2 stars)**
  - If no, two stars are awarded and if yes one or no stars are awarded. AirlineRatings.com has analysed over 11,000 serious incidents over the past five years and looked at trends such as runway overruns to arrive at our ratings.
- **Has the airline and its country of origin passed all the major audits?**
  - We look at the IOSA audit, ICAO country audit, EU and FAA bans. If the airline or its country of origin passes all these audits then **one-star is awarded**.
  - If there are any failures the star is removed. The exception is IOSA, and if any airline has not done the audit but has not had a fatal crash in 20-years, a star is awarded. (See details of audits below)

NEWSLETTERS

Sign up to read our regular email newsletters

[News](#) [Podcasts](#) [Video](#) [Technology](#) [Space](#) [Physics](#) [Health](#) [More](#) [Shop](#) [Courses](#) [Events](#)

## One in 20 European patients catch an infection while in hospital



HEALTH 18 October 2016



Sam Edwards/Caiaimage/Getty

# STOP INFECTIONS AFTER SURGERY

## WHAT'S THE PROBLEM?

Patients develop infections when **bacteria get into incisions made during surgery**. These affect patients in both...

### LOW- AND MIDDLE-INCOME COUNTRIES



More than **1 in 10** people who have surgery in low- and middle-income countries (LMICs) **get surgical site infections (SSIs)**

People's risk of SSI in LMICs is **3 TO 5 TIMES HIGHER** than in high-income countries



Up to **1 in 5** women in Africa who deliver their baby by caesarean section get a **wound infection**

### HIGH-INCOME COUNTRIES



In Europe, SSIs affect more than **500 000 PEOPLE** per year costing up to **€ 19 BILLION**

Around **1%** of people who have surgery **in the USA get an SSI**



In the USA, SSIs contribute to patients spending more than **400 000 extra days** in hospital, costing **US\$ 10 BILLION** per year



SSIs can be caused by bacteria that are **resistant to commonly-used antibiotics**



SSIs threaten the lives of **millions** of surgical patients **each year** and contribute to the spread of **antibiotic resistance**

Postoperative  
Wundinfektionen

(SSI surveillance  
By Swissnoso)

[WHO 2022](#)

<https://openwho.org/courses/IPC-SSI-EN/items/3neyunY4P3HxKIAYHh0AMK>

^

## COVID-19 hat die Bedeutung von hohen Standards für die Prävention und Bekämpfung von HAI verdeutlicht

Mehrere Faktoren können der Prävention und Bekämpfung von HAI entgegenwirken und zu einem Anstieg der Infektionen führen, wie etwa die COVID-19-Pandemie (Daten CDC, Atlanta, USA)

	2020 Q1	2020 Q2	2020 Q3	2020 Q4
CLABSI	↓ -11.8%	↑ 27.9%	↑ 46.4%	↑ 47.0%
CAUTI	↓ -21.3%	No Change <sup>1</sup>	↑ 12.7%	↑ 18.8%
VAE	↑ 11.3%	↑ 33.7%	↑ 29.0%	↑ 44.8%
SSI: Colon surgery	↓ -9.1%	No Change <sup>1</sup>	↓ -6.9%	↓ -8.3%
SSI: Abdominal hysterectomy	↓ -16.0%	No Change <sup>1</sup>	No Change <sup>1</sup>	↓ -13.1%
Laboratory-identified MRSA bacteremia	↓ -7.2%	↑ 12.2%	↑ 22.5%	↑ 33.8%
Laboratory-identified CDI	↓ -17.5%	↓ -10.3%	↓ -8.8%	↓ -5.5%



*deutliche  
Zunahme von  
Venenkatheter-  
assoziierten  
Blutstrom-  
infektionen*

# PREVALENCE AND RISK FACTORS FOR NOSOCOMIAL INFECTIONS IN FOUR UNIVERSITY HOSPITALS IN SWITZERLAND

Didier Pittet, MD, MS; Stephan Harbarth, MD; Christian Ruet, MD; Patrick Francioli, MD; Philippe Sudre, MD, MS; Christiane Pétignat, MD; Andrej Trampuz, MD; Andreas Widmer, MD, MS

Die erste nationale Prävalenzstudie aus der Schweiz  
4/5 Universitätsspital !!!!

## ABSTRACT

**OBJECTIVE:** To determine the prevalence and risk factors for nosocomial infections (NIs) in four Swiss university hospitals.

**DESIGN AND SETTING:** A 1-week period-prevalence survey conducted in May 1996 in medical, surgical, and intensive-care wards of four Swiss university hospitals (900-1,500 beds). Centers for Disease Control and Prevention definitions were used, except that asymptomatic bacteriuria was not categorized as NI. Study variables included patient demographics, primary diagnosis, comorbidities, exposure to medical and surgical risk factors, and use of antimicrobials. Risk factors for NIs were determined using logistic regression with adjustment for length of hospital stay, study center, device use, and patients' comorbidities.

**RESULTS:** 176 NI were recorded in 156 of 1,349 screened patients (11.6%; interhospital range, 9.8%-13.5%). The most frequent NI was surgical-site infection (53; 30%), followed by urinary tract infection (39; 22%), lower respiratory tract infection (27; 15%), and bloodstream infection (23; 13%). Prevalence of NI was higher in critical-care units (25%) than in medical (9%) and surgical wards

(12%). Overall, 65% of NIs were culture-proven; the leading pathogens were *Enterobacteriaceae* (44; 28%), *Staphylococcus aureus* (20; 13%), *Pseudomonas aeruginosa* (17; 11%), and *Candida* species (16; 10%). Independent risk factors for NI were central venous catheter (CVC) use (odds ratio [OR], 3.35; 95% confidence interval [CI<sub>95</sub>], 2.91-3.80), admission to intensive care (OR, 1.75; CI<sub>95</sub>, 1.30-2.21), emergency admission (OR, 1.57; CI<sub>95</sub>, 1.15-2.00), impaired functional status (Karnofsky index 1-4: OR, 2.56; CI<sub>95</sub>, 1.95-3.17), and McCabe classification of ultimately fatal (OR, 2.50; CI<sub>95</sub>, 2.04-2.96) or rapidly fatal (OR, 2.25; CI<sub>95</sub>, 1.52-2.98) underlying condition.

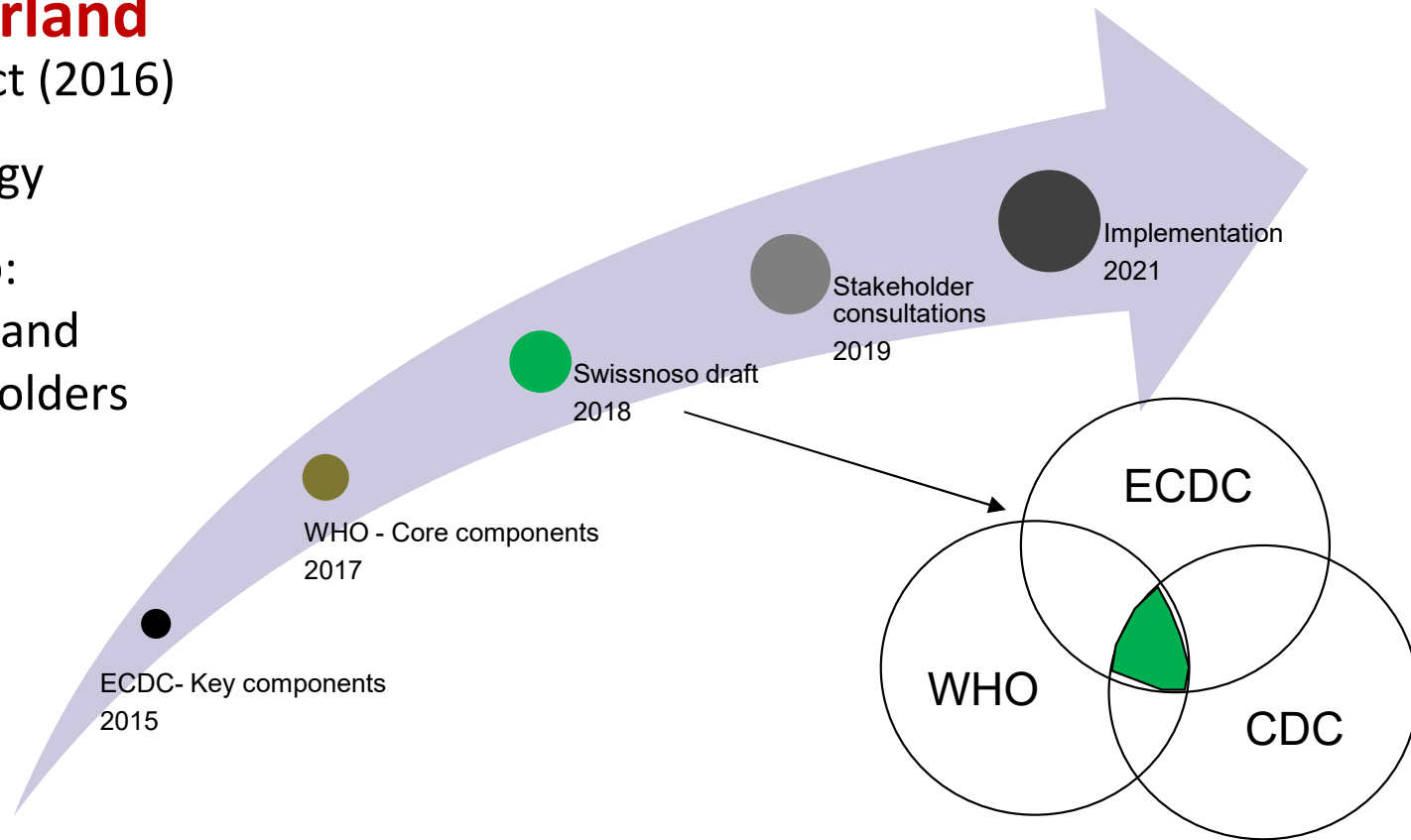
**CONCLUSIONS:** According to the results of this survey, NIs are frequent in Swiss university hospitals. This investigation confirms the importance of CVCs as a major risk factor for NI. Patient comorbidities must be taken into account to adjust for case mix in any study comparing interhospital or intrahospital infection rates (*Infect Control Hosp Epidemiol* 1999;20:37-42).

# Towards structural minimum standards in Switzerland

Epidemics Act (2016)

NOSO Strategy

Expert group:  
Swissnoso and  
key stakeholders

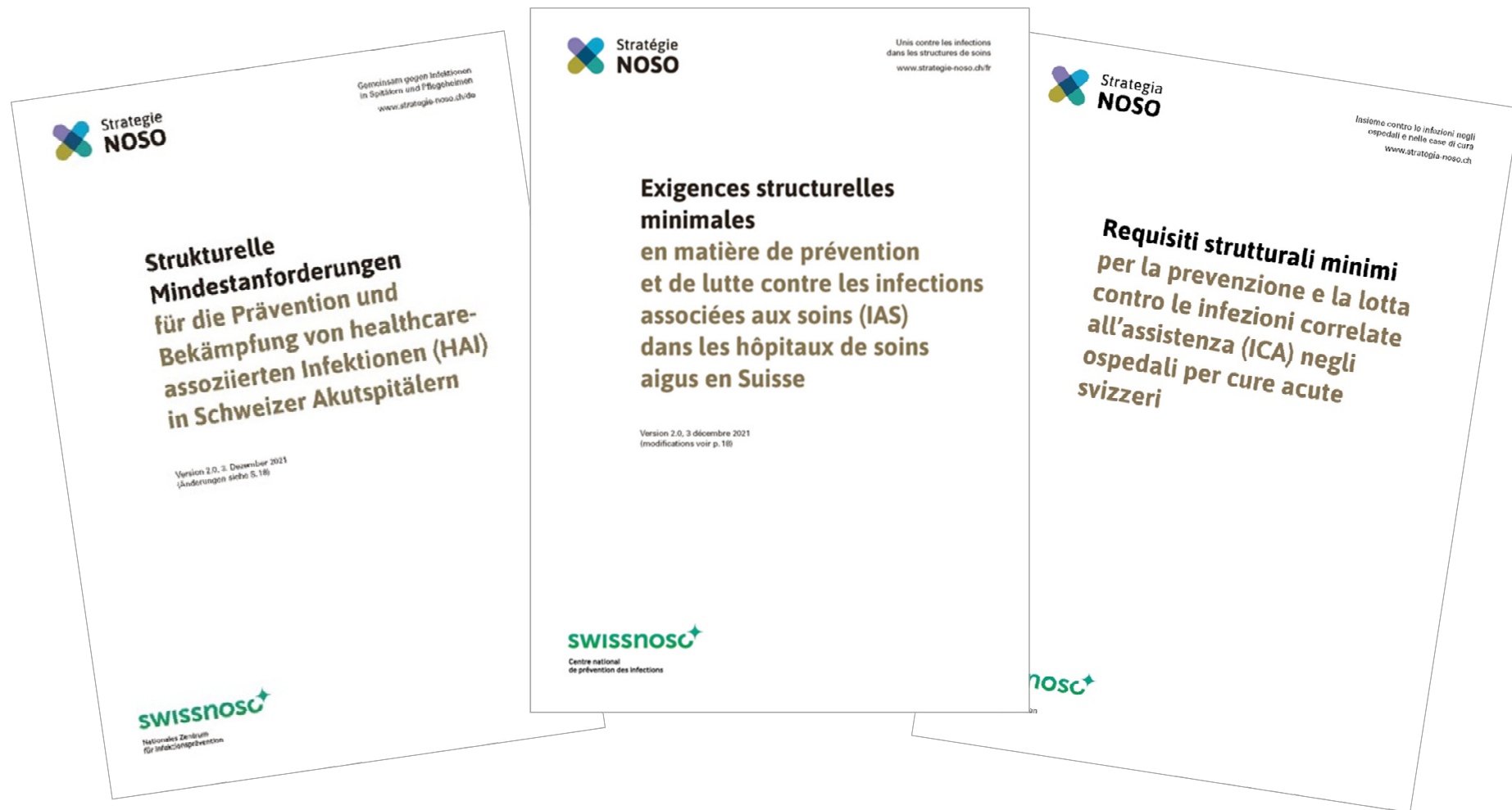


Slide: courtesy from W.Zingg

Roth J & Widmer AF



## Ein Meilenstein für die Schweiz!

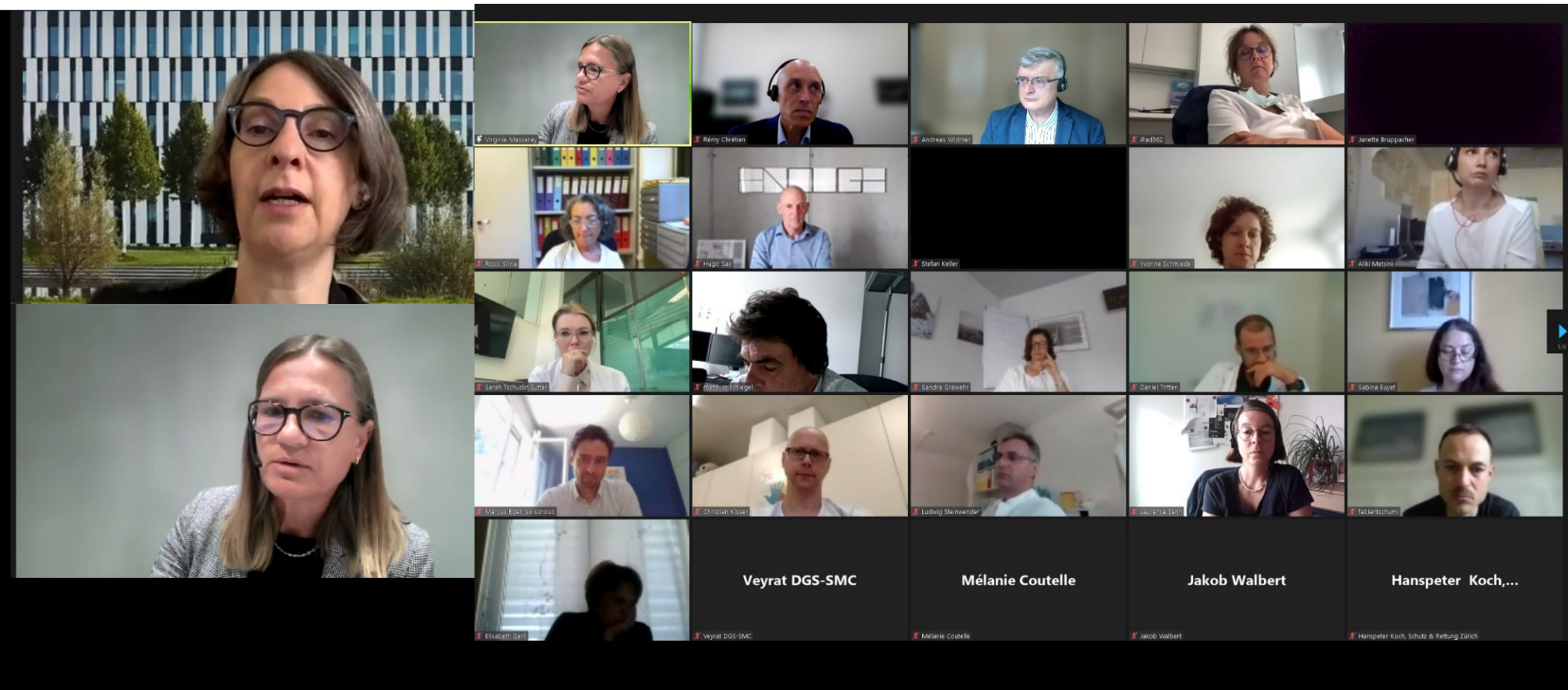


**Mindestanforderungen**

19. Mai 2022

# 1. Symposium Minimal Standards 27.8.2021

Anne Levy, Direktorin BAG



Minimum Structural Requirements for Successful  
Prevention and Control of Healthcare-Associated  
Infections

# HEALTH AND ECONOMIC BURDEN OF HEALTHCARE-ASSOCIATED INFECTIONS AND ANTIMICROBIAL RESISTANCE IN THE EUROPEAN REGION

Alessandro Cassini, Antimicrobial resistance Control & Response Strategies Unit  
World Health Organization



27 August 2021



## Current activities

---



Chair: Prof. Evelina Tacconelli



“Andreas!  
Please send me  
Your minimum standards  
This is unique”

“In Europe, there are  
few, if any Standards  
required by law in  
written form”

24.4.2022

## **Progress report – 1 -**

Ab Oktober 2021

Bearbeitung der Zielgruppen in den drei Gruppen

- GDK-Kantone
- H+-Spitalmanagement
- Swissnoso-IPC Teams

Januar 2022

Workshop für IPC Teams

Mai 2022 GDK und H+

Verbindlichkeit der Minimum Standards evaluieren

## Progress report – 2 -

- Powerpoint generic Slides
  - In drei Landessprachen ab Juni 2022 Webseite Swissnoso;
  - D/F schon jetzt verfügbar
- MDRO Guidelines –Swissnoso Website; wichtig für die CHOP Kodierung – bessere Vergütung
- HAI Punktprävalenz-Erhebung 2022 (HAI-PPS-2022): IPCAF Tool von WHO Teil der Erhebung: Resultate ab 2023
- Für Schweiz angepasstes Selbstevaluations-Tool: verfügbar bis Ende 2022 (voraussichtlich)
- 26.8. Austausch für IPC Teams per Zoom: alle Interessenten aus Spitälern herzlich eingeladen (Einladung folgt)

## Core component 1: Infection Prevention and Control (IPC) programme

Question	Answer	Score
<b>1. Do you have an IPC programme?</b> <sup>3</sup> Choose one answer	<input type="checkbox"/> No	0
	<input type="checkbox"/> Yes, without clearly defined objectives	5
	<input type="checkbox"/> Yes, with clearly defined objectives <u>and</u> annual activity plan	10
<b>2. Is the IPC programme supported by an IPC team comprising of IPC professionals?</b> <sup>4</sup> Choose one answer	<input type="checkbox"/> No	0
	<input type="checkbox"/> Not a team, <i>only</i> an IPC focal person	5
	<input type="checkbox"/> Yes	10
<b>3. Does the IPC team have at least one full-time IPC professional or equivalent (nurse or doctor working 100% in IPC) available?</b> Choose one answer	<input type="checkbox"/> No IPC professional available	0
	<input type="checkbox"/> No, <i>only</i> a part-time IPC professional available	2.5
	<input type="checkbox"/> Yes, one per > 250 beds	5
	<input type="checkbox"/> Yes, one per ≤ 250 beds	10
<b>4. Does the IPC team or focal person have dedicated time for IPC activities?</b>	<input type="checkbox"/> No	0
	<input type="checkbox"/> Yes	10
<b>5. Does the IPC team include both doctors and nurses?</b>	<input type="checkbox"/> No	0
	<input type="checkbox"/> Yes	10
<b>6. Do you have an IPC committee</b> <sup>5</sup> <b>actively supporting the IPC team?</b>	<input type="checkbox"/> No	0
	<input type="checkbox"/> Yes	10
<b>7. Are any of the following professional groups represented/included in the IPC committee?</b>		
Senior facility leadership (for example, administrative director, chief executive officer [CEO], medical director)	<input type="checkbox"/> No	0
	<input type="checkbox"/> Yes	5
Senior clinical staff (for example, physician, nurse)	<input type="checkbox"/> No	0
	<input type="checkbox"/> Yes	2.5
Facility management (for example, biosafety, waste, and those tasked with addressing water, sanitation, and hygiene [WASH])	<input type="checkbox"/> No	0
	<input type="checkbox"/> Yes	2.5
<b>8. Do you have clearly defined IPC objectives (that is, in specific critical areas)?</b> Choose one answer	<input type="checkbox"/> No	0
	<input type="checkbox"/> Yes, IPC objectives <i>only</i>	2.5
	<input type="checkbox"/> Yes, IPC objectives <u>and</u> measurable outcome indicators (that is, adequate measures for improvement)	5
	<input type="checkbox"/> Yes, IPC objectives, measurable outcome indicators <u>and</u> set future targets	10
<b>9. Does the senior facility leadership show clear commitment and support for the IPC programme:</b>		
By an allocated budget specifically for the IPC programme (that is, covering IPC activities, including salaries)?	<input type="checkbox"/> No	0
	<input type="checkbox"/> Yes	5
By demonstrable support for IPC objectives and indicators within the facility (for example, at executive level meetings, executive rounds, participation in morbidity and mortality meetings)?	<input type="checkbox"/> No	0
	<input type="checkbox"/> Yes	5
<b>10. Does your facility have microbiological laboratory support (either present on or off site) for routine day-to-day use?</b> Choose one answer	<input type="checkbox"/> No	0
	<input type="checkbox"/> Yes, but not delivering results reliably (timely and of sufficient quality)	5
	<input type="checkbox"/> Yes, and delivering results reliably (timely and of sufficient quality)	10
<b>Subtotal score</b>		<b>/100</b>

<sup>3</sup> IPC programmes should have clearly defined *objectives* based on local epidemiology and priorities according to risk assessment, and defined *functions and activities* that align with and contribute towards the prevention of health care-associated infections and antimicrobial resistance in health care. They should also include dedicated, trained IPC professionals. See the *WHO Guidelines on core components of IPC programmes at the national and acute health care facility level* for more information (<http://www.who.int/infection-prevention/publications/core-components/en/>, accessed 13 April 2018).

<sup>4</sup> IPC professional: medical or nursing staff trained in a certified IPC course.

<sup>5</sup> An IPC committee is a multidisciplinary group with interested stakeholders across the facility, which interacts with and advises the IPC team. An IPC team includes dedicated IPC professionals who are responsible for the IPC programme.

## Evaluationstool der WHO

<https://www.who.int/publications/i/item/WHO-HIS-SDS-2018.9>

## Training courses on infection prevention and control (IPC)



This page is in the process of being updated

### AGENCIES

#### European Centre for Disease Prevention and Control (ECDC)

- Catalogue of infection control and hospital hygiene courses in the European Union
- ECDC Virtual Academy - Training Materials for a course on Control of Multi-Drug Resistant Microorganisms in Health Care Settings

#### World Health Organization (WHO)

- Train-the-Trainers in hand hygiene - a standardized approach to guide education in infection prevention and control (2019)
- Surgical site Infections (2022)

### PROFESSIONAL SOCIETIES

#### European Society of Clinical Microbiology and Infectious Diseases (ESCMID)

- EUCC Infection Prevention and Control Certificate (European Committee on Infection Control - EUCC, 2018)

#### Infection Prevention Society/International Scientific Forum on Home Hygiene (IPS/IFH)

- Home hygiene - Prevention of infection at home and in everyday life, a learning and training resource (2018)

### EU/EEA COUNTRIES

#### Cyprus

- Infectious Diseases: Prevention and Control (School of Medicine, European University Cyprus)
- Organization's website

#### Czech republic

- Certified course on infection prevention and control in health care facilities (Charles University in Prague)
- Organization's website

#### Denmark

- eLearning - Hand hygiene (Statens Serum Institut, 2018)
- Organization's website
- eLearning - Intra-hospital underbæringsmiddelresistens om infektionshygiene, HÅ - hånd og vask på håndhygiene (Statens Serum Institut, 2018)
- Organization's website

#### France

- Nosocomial infections and hospital hygiene (Pierre and Marie Curie University-Paris 13, René Descartes University-Paris VI, Denis Diderot University-Paris VII)
- Organization's website
- Health care-associated infections and hospital hygiene (University of Limoges)
- Organization's website

#### Germany

- Antibiotic stewardship course - Deutsche Gesellschaft für Krankenhaushygiene (DGKH)
- Organization's website

#### Hungary

- Infection control and patient safety (University of Debrecen)
- Organization's website

#### Ireland

- Postgraduate diploma (infection prevention & control nursing) (Royal College of Surgeons Ireland School of Nursing & Midwifery)
- Organization's website
- MSc infection prevention & control nursing (Royal College of Surgeons Ireland School of Nursing & Midwifery)
- Organization's website
- MSc in healthcare infection management (Trinity College Dublin)
- Organization's website
- Postgraduate certificate in health protection - online (DCU12) (University College Cork)
- Organization's website
- Postgraduate diploma in public health (health protection) (University College Cork)
- Organization's website
- Master of public health (D0011) (University College Cork)
- Organization's website

#### Lithuania

- Healthcare associated infections management (control) (Centre of continuous training and specialization for nurses)
- Organization's website
- Epidemiological surveillance of healthcare associated infections (Institute of Hygiene)
- Organization's website

#### Malta

- Infection prevention and control (University of Malta)
- Organization's website

#### Netherlands

- Hygiene and infection prevention in healthcare (Virobiotech Institute, Universitair Medisch Centrum Groningen)
- Organization's website

#### Norway

- Infection Prevention and Control (University of South-Eastern Norway)
- Organization's website

#### Poland

- Infection control in healthcare facilities (Agelston University Medical College)
- Organization's website

#### Sweden

- e-utbildning - Basala hygienrutiner



European CDC  
Stockholm

Ausbildung Infektprävention



Switzerland ???

Mindestanforderungen

19. Mai 2022



## **7 Schlüsselkomponenten**

1. Richtlinien und Weisungen
2. Material und Ausrüstung
3. Organisation der Spitalhygiene und Personalausstattung
4. Aufgabenorientierte Schulung
5. Audits und Monitoring
6. Surveillance und Ausbrüche
7. Interventionen

# Strukturelle Mindestanforderungen – was können sie bewirken?

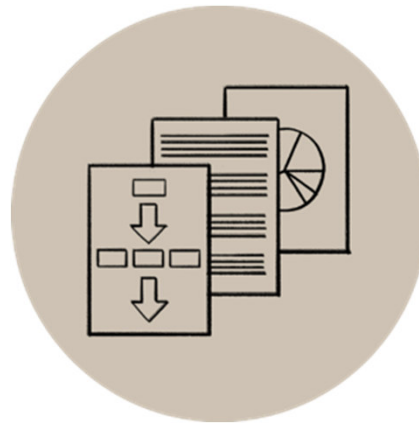
## **Wirksame Überwachung, Vorbeugung und Bekämpfung von healthcare-assoziierten Infektionen**

- Wissenschafts- und evidenzbasiert (CDC, ECDC, WHO)
- Vom BAG und den Interessengruppen mitgetragen
- Starke Unterstützung des Strategierahmens von NOSO

## 1. Richtlinien und Weisungen

- Evidenzbasierte Leitlinien
- Unterstützung durch die Spitalleitung

*Spitalhygiene-  
Richtlinien sollten  
leicht zugänglich sein*



## 2. Material und Ausrüstung

- Verwendung und Promotion von Alkohol-basierten Händedesinfektionsmitteln
- Persönliche Schutzausrüstung (PSA)
- (Flächen) Desinfektion und Sterilisation
- Abfallmanagement

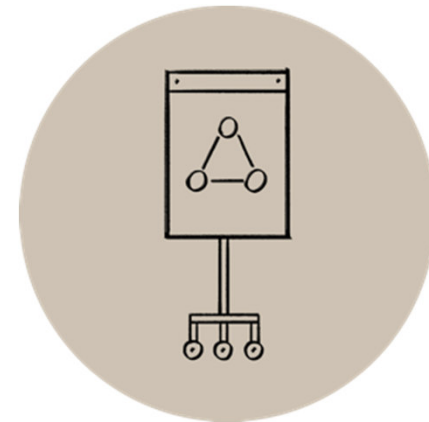
*Leichter Zugang zu  
PSA fördert gute  
Hygienepraktiken*



### 3. Organisation der Spitalhygiene und Personalausstattung

- Multidisziplinäre Hygienekommission
- Spitalhygiene-Team: Seit 2022 mit standardisierten, geschützten Titel nach erfolgreicher bestandenen Prüfung
  - Pflege: seit > 10 Jahren
  - Ärzte: 2022
- Angemessene Personalausstattung

*ausreichende  
Unterstützung durch  
die Spitalhygiene  
erhöht die  
Patientensicherheit*



# Fachexpertin/Fachexperte Infektionsprävention

Modul 1	Modul 2	Modul 3	Modul 4	Modul 5
Prävention und Überwachung von nosokomialen Infektionen	Interventionen bei Infektionskrankheiten in Institutionen des Gesundheitswesens	Konzepte zur Infektionsprävention erstellen und weiter entwickeln	Schulung, Kommunikation und Beratung	Projekte und Veränderungsprozesse
1.1: Daten erfassen, analysieren und auswerten	2.1 Interventionen bei übertragbaren Infektionskrankheiten	3.1: Das Infektionsverhütungsprogramm entwickeln	4.1 Schulung des Personals (Gruppen und/ oder Einzelpersonen)	5.1 Expertinnen- / Expertentätigkeit in Projekten
1.2: Erfassen der Ursachen von Normabweichungen	2.2 Intervention bei Exposition des Personals.		4.2 Informationsverarbeitung, Öffentlichkeitsarbeit	5.2 Projekte leiten
			4.3: Einzel- und Gruppenberatung	

# Fachausbildung Ärzt\*innen: in Kraft 1.1.2022

# Facharzt Infektiologie mit Schwerpunkt Infektionsprävention



Strategie  
**NOSO**

## Lack of standardized education for hospital epidemiologists (HE) in Europe: Creation of federally regulated HE in Switzerland in 2019

Andreas F. Widmer, University Hospital Basel

#P2575  
University Hospital  
Basel

### INTRODUCTION

Effective HAI prevention and control in healthcare organisations relies on specialised infection control staff in charge of elaborating, implementing and monitoring local preventive measures such as hand hygiene and patient isolation. Training in infection control and the epidemiology of healthcare-associated infections was also the topic of one of the work packages of the Improving Patient Safety in Europe project (IPSE). Education of Infection Control nurses or Practitioners (ICP) is commonly well organized and regulated, and in some countries federally regulated with number of credit hours and final exam. In Switzerland, ICPs training is federally regulated since 2009, and all ICPs must pass a final national exam. In contrast, there is no formal training for hospital epidemiologist.

I therefore provided the background to create a concept for training to receive a diploma/title "hospital epidemiologist"

For the Swiss Society for Infectious diseases (president: Nicola Mueller)

Post-doc training for physician is organized by Schweizerische Infektionisten (SIWF)

(<https://www.fmh.ch/siwf/siwf/ueber-das-siwf/portraet>)... Association of the Swiss hospital epidemiologist who have earned a board certification in infection control as well as infectious diseases, and are mainly working as head of hospital epidemiology in large hospitals. However, there is a need for mid-size hospital as well as smaller hospitals to have an in-house associated physician with specific training in HE. Therefore, I have created a proposal for SIWF for hospital epidemiology, that requires a training in Infectious disease and at least one year specific training in hospital epidemiology at a university hospital.

Facharzt Infektiologie akzeptiert durch SWIFT 30. 6. 19

Academic Training for Infection prevention (MDs, Nurses and Pharmacists and others)						
University/Institution	Program/Training	Target population	Duration	Year	Exam	Certificate
EUIC (ESMID)	EUIC Infection Prevention and Control Certificate	medical doctors and pharmacists, nurses or other healthcare professionals with a MSc or PhD	2 years	2018	-	ESCMID
Complutense University of Madrid (Spain)	Online Master based on Clinical Cases	MDs or other graduates healthcare	2 years	2018	Yes	MSc
University of West London (UK)	MSc Infection Prevention and Control (IPC)	Students with a degree or equivalent and be working in an infection prevention role	3 years	2018	-	MSc
Griffith University (Australia)	Online Graduate Certificate in Infection Prevention and Control	Related Bachelor degree or higher, work experience	6 months full time 3 year part time	2019	-	Professional recognition
Association for Professionals in Infection Control and Epidemiology (APIC) (America)	Online learning- Full Course Catalog	-	12 months	2019	-	-

### RESULTS

In most European and non-European countries including the USA, there is no formal training requirements for hospital epidemiologist. In Northern European countries, HEs are mainly trained as clinical microbiologist, in the USA as Infectious disease specialists.(Table 2)

In 2018, The Swiss association for training of physicians (SWIF) accepted the training program for HE, as a specialty of Infectious Diseases. It includes 3 years of internal medicine, 3 years for infectious diseases, at least 18 clinical services, 2 peer-reviewed papers, and one year of hospital epidemiology at a university hospital with specific division of hospital epidemiology.

#### Federally regulated and structured Training for in Infection Control in Europe ( Physicians only)

Country	Institution	Residency Program	Year	Duration
Switzerland	Swiss Medical Association (FMH) Schweizerische Institut für ärztliche Weiter- und Fortbildung (SIWF)	Subspecialty in Infection Prevention and Control Requirements 3 years Internal Medicine 3 years Infectious diseases (board exam for ID) 1 year infection control (final exam for accreditation "infection control")	2019	7 years  10 years (with internal med board)
Sweden	Swedish Medical Association (SLF)	Specialty in Infection Prevention and Control of Healthcare-associated infections (HAIs)	2019	6 years
Germany	Federal Medical Association	Additional advanced training hospital hygiene	-	6 years

- Most countries including the USA lack a federally regulated training program for physicians for hospital epidemiology (HE)
- 2 of 3 European countries just recently accepted a formal title with defined requirements for HE
- In contrast to physicians, training for infection control nurses and practitioners is much more advanced compared to similar training for physician

### REFERENCES

1. FMH Swiss Medical Association ([www.fmh.ch](http://www.fmh.ch))
2. SLF Swedish Medical Association ([www.sl.se](http://www.sl.se))
3. German Medical Association ([www.bundesaerztekammer.de](http://www.bundesaerztekammer.de))
4. MSc Infection Prevention and Control, University of West London, Infection Prevention Society (IPS) ([www.ips.ac.uk/infobrochureeventscourses](http://www.ips.ac.uk/infobrochureeventscourses))
5. Master online based on Clinical Cases, Complutense University of Madrid, ([www.usm.es](http://www.usm.es))
6. Graduate Certificate in Infection Prevention and Control, Griffith University, ([www.griffith.edu.au](http://www.griffith.edu.au))
7. APIC Online Learning, ([www.apic.org](http://www.apic.org))
8. European Centre for Disease Prevention and Control ([www.ecdc.europa.eu](http://www.ecdc.europa.eu))

### Acknowledgements

I thank the society for infectious diseases and their board for their help.  
Additional input from  
- Petra Gastmeier, Germany  
- Nicco Mutters, Germany  
- Stephan Erb, Switzerland

Mindestanforderungen

19. Mai 2022



## 4. Aufgabenorientierte Schulung

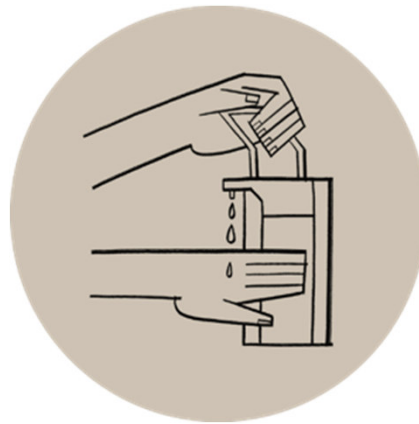
- Schulung zu Standard-Hygienemassnahmen für das gesamte Personal

Regelmässige  
Schulungen  
verbessern das  
Spitalhygiene-  
bewusstsein



## 5. Audits und Monitoring

- Spitalhygiene-Ziele, Audits und Berichterstattung
- Händehygiene-Monitoring



*Händehygiene beim  
Gesundheitspersonal ...  
nach wie vor  
verbesserungsfähig?*

## 6. Surveillance und Ausbrüche

- Spitalhygiene-Monitoring und Berichterstattung (zum Beispiel, Module “SSI Surveillance”, “HAI Punktprävalenz-Erhebung”)
- Ausbruchsbekämpfung
- Screening auf multiresistente und weitere relevante Keime

*Gute Berichterstattung  
und Kommunikation  
schaffen Vertrauen*



## 7. Interventionen

- Umsetzung von Interventionsmodulen zur Prävention von HAI

*das SSI Interventionsmodul  
kann die Rate von  
postoperativen  
Wundinfektionen signifikant  
senken*

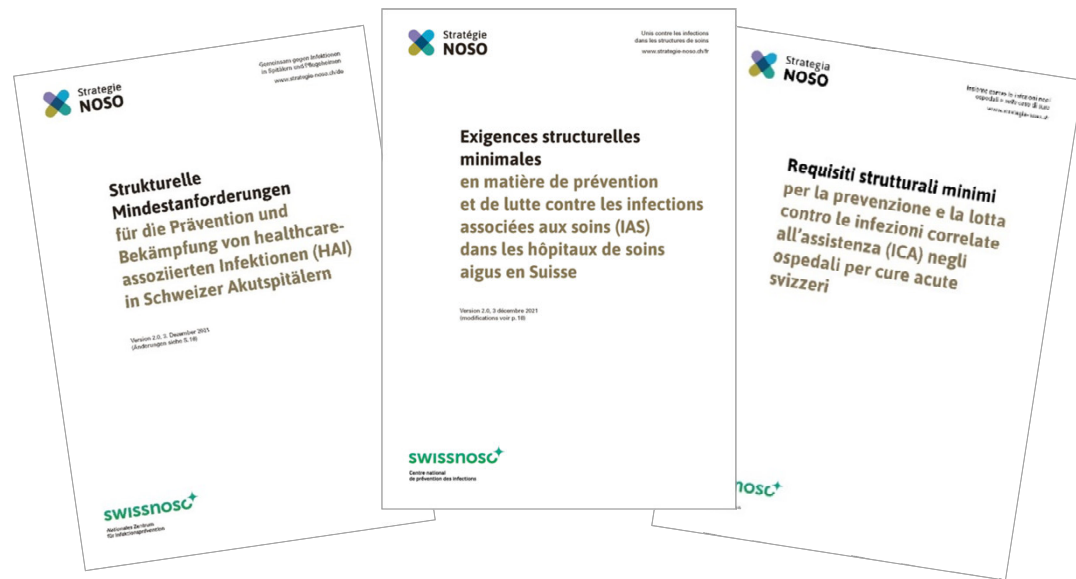




- **Effektive Spitalhygiene**
- **Verbesserte Entscheidungsfindung**
- **Bessere Versorgungsqualität**

## Erfolgsfaktoren

- Unterstützung und Prioritätensetzung durch die oberste Führungsebene
- Organisation:
  - Hygienekommission (CEO, ärztlicher Direktor\*in, Pflegedirektor\*in)
  - Klare Struktur und Verantwortlichkeiten
  - Prozesse mit Zeitvorgaben/Fristen
- Eigenverantwortung und Führung
- Interprofessionelle Zusammenarbeit
- Evaluierung und Feedback-Kultur



Wenn alle gemeinsam vorankommen,  
dann stellt sich der Erfolg von selbst ein.

Henry Ford

# WHO report “vermeidbare Pandemie” im Vergleich zu vermeidbare nosokomiale Infektionen



- Bis 2019 Warnungen der WHO über bevorstehende Epidemie
- 12/2019 Kliniken: rasche Erkennung über unübliche Anzahl von Resp. Infektionen. Massnahmen keine.
- 30.1.2020 WHO Public Health Emergency of International Concern (PHEIC)
- ‘wait and see’ approach durch viele Länder
- Länder mit später Reaktion auf Pandemie waren auch solche mit fehlender Struktur, Koordination, Personal
- Vorsorgepläne nicht ausreichend finanziert, / verzögerte Reaktion

Fachpersonal: Nosokomiale Infektion sind ein zunehmendes Problem

Prävalanzresultate liegen vor Problemkreise erkannt  
Konkrete Massnahmen

HAI Mindestanforderungen publiziert  
Jan. 2021

Wait and see approach ?

Ausreichend ausgebildetes Personal in Infektionsprävention

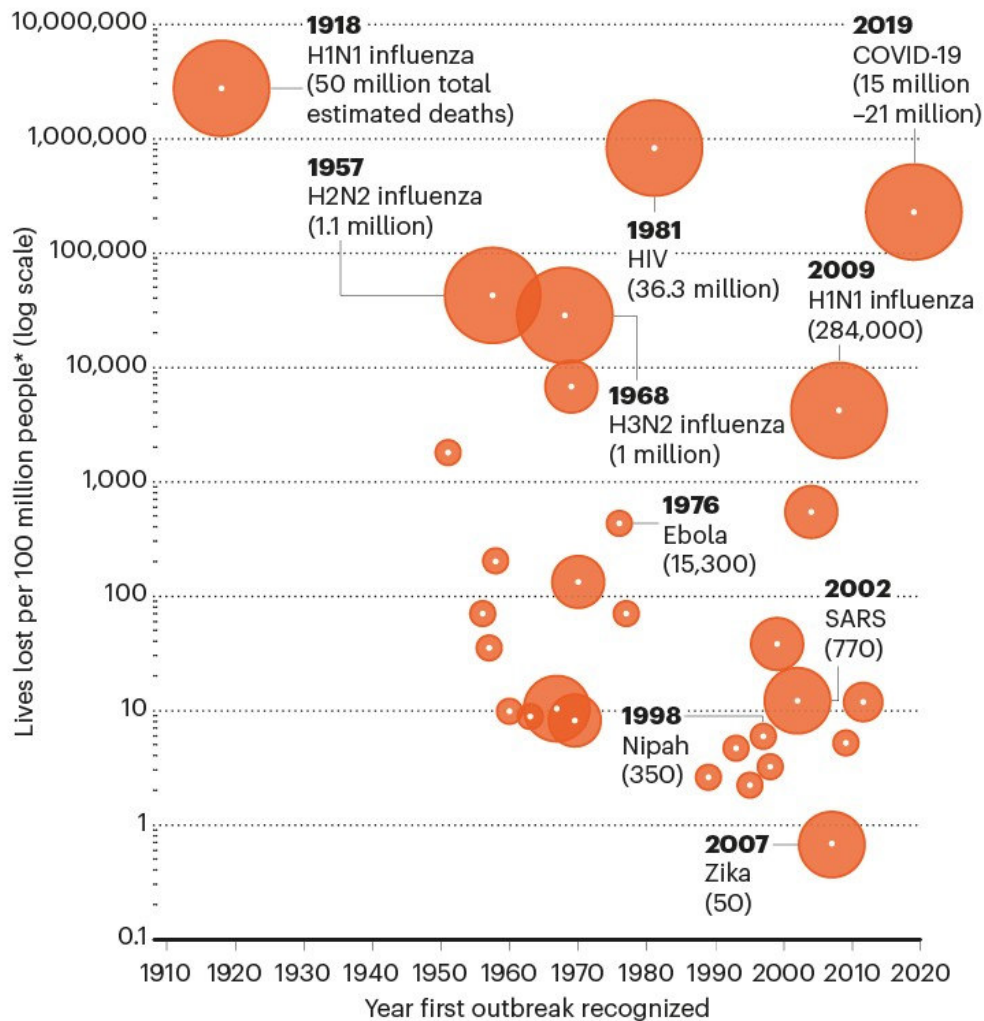
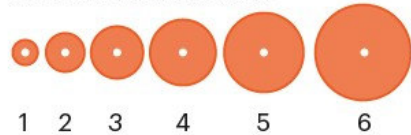
Finanzierung der Infektionsprävention



## SPILLOVERS: A GROWING THREAT

Deforestation and other changes have increased the likelihood of animal viruses jumping into people, with globalization and a higher density of human populations having increased the chance that such spillover events will be catastrophic. The annual economic loss from viral zoonoses since 1918 is US\$212 billion.

### Number of continents



Prävention von übertragbaren Erkrankungen zahlt sich nicht nur in Gesundheitseinrichtungen / Spitälern aus

Ausbildung auch in der Ambulanz

*Nature* 605, 419-422 (2022)

doi: <https://doi.org/10.1038/d41586-022-01312-y>

\*Data are from viral outbreaks of zoonotic origin that resulted in ten or more deaths; figures in parentheses are total estimated deaths spread over multiple years (and over multiple outbreaks, in some instances) rounded to the nearest ten.

# Mehr auf der Swissnoso-Webseite



[Worum geht es?](#) [Module](#) [Veranstaltungen](#) [Bulletin](#) [Politik & Recht](#) [Forschung & Entwicklung](#) [Über uns](#)



[Startseite](#) / [Forschung & Entwicklung](#) / [Strukturelle Mindestanforderungen HAI](#)

Aktuelle Ereignisse: COVID-19

## Strukturelle Mindestanforderungen HAI

Symposium 27.8.2021

MRE Empfehlungen

Umsetzung StAR

SNSF Project Watussi

## Strukturelle Mindestanforderungen HAI

Die strukturellen Mindestanforderungen für die Prävention und Bekämpfung von healthcare-assoziierten Infektionen (HAI) in Schweizer Akutspitälern<sup>1</sup> wurden von einer Arbeitsgruppe unter der Leitung von Swissnoso erarbeitet, unter Einbezug der betroffenen Fachgesellschaften (SGSH, SSI, SIPI und fibs). Sie beruhen auf wissenschaftlicher Evidenz, Empfehlungen des Europäischen Zentrums für die Prävention und die Kontrolle von Krankheiten (ECDC) und der Weltgesundheitsorganisation (WHO).

<https://www.swissnoso.ch/forschung-entwicklung/strukturelle-mindestanforderungen-hai>

## Mindestanforderungen

19. Mai 2022

# Basel Walk of Fame

Hands of Chief of Departments Surgery & Medicine



**Danke für Ihre  
Aufmerksamkeit**