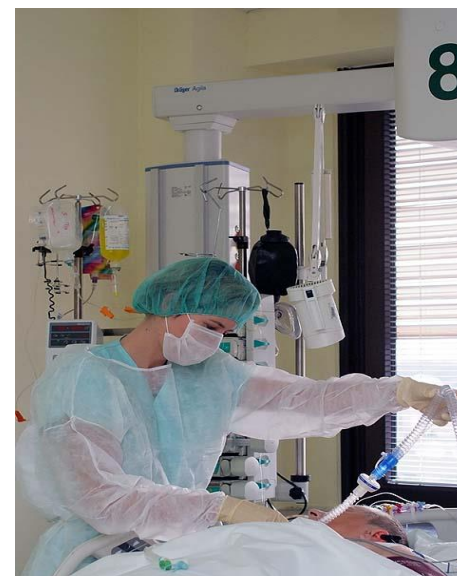


Vzdělávání specialistů prevence a kontroly infekcí evropský projekt TRICE-IS

Vlastimil Jindrák, Dana Hedlová

NRC pro infekce spojené se zdravotní péčí

Státní zdravotní ústav, Praha





Doporučení Rady EU z 9.6. 2009

- **Council recommendation on patient safety, including prevention and control of healthcare associated infections**

3.7.2009	EN	Official Journal of the European Union	C 151/1
I			
<i>(Resolutions, recommendations and opinions)</i>			
RECOMMENDATIONS			
COUNCIL			
COUNCIL RECOMMENDATION			
of 9 June 2009			
on patient safety, including the prevention and control of healthcare associated infections			
(2009/C 151/01)			



Doporučení Rady EU 2009: **Vzdělávání a odborná příprava**

Národní úroveň:

- **vzdělávací programy pro specialisty kontroly infekcí**
- vzdělávací programy pro ostatní zdravotníky

Úroveň zdravotnického zařízení:

- pravidelná školení v prevenci a kontrole infekcí pro všechny pracovníky
- pravidelná školení pro zdravotnické pracovníky aktivně působící v oblasti prevence a kontroly infekcí

(i) at national or regional level, defining and implementing specialised infection control training and/or education programmes for infection control staff and strengthening education on the prevention and control of healthcare associated infections for other healthcare workers;



Implementace k 06/2011: Hodnotící zpráva



Brussels, 13.11.2012
COM(2012) 658 final

REPORT FROM THE COMMISSION TO THE COUNCIL
on the basis of Member States' reports on the implementation of the Council
Recommendation (2009/C 151/01) on patient safety, including the prevention and
control of healthcare associated infections



Implementace k 06/2011: Hodnotící zpráva

vzdělávání a odborná příprava

Osnovy pro specializaci v prevenci a kontrole infekcí

- **13 zemí** jednotné osnovy s vymezením základních dovedností a způsobilosti personálu prevence a kontroly infekcí
- **3 země** osnovy v přípravě
- **11 zemí** nemá žádné osnovy

Povinné specializační vzdělávání:

- **9 zemí** pro **lékaře** – specialisty v prevenci a kontrole infekcí
- **11 zemí** pro **sestry** pro prevenci a kontrolu infekcí



Implementace k 06/2011: Hodnotící zpráva

závěry a doporučení Evropské komise

- **Zajistit dostatečný počet personálu** specializovaného na prevenci a kontrolu infekcí ve zdravotnických zařízeních členských států
- **Zlepšit odbornou přípravu personálu** specializovaného na prevenci a kontrolu infekcí a **sladit požadavky členských států**

TRICE-IS projekt

harmonizace vzdělávání v prevenci a kontrole infekcí v Evropě

- **T**Training in **I**nfection **C**ontrol in **E**urope (**TRICE**)
- **I**mplementation **S**trategy... (**TRICE-IS**)
- Aktivita Evropského centra pro prevenci a kontrolu nemocí (**ECDC**)
- Struktura **národních koordinátorů** (pro CZ Hedlová, Jindrák)

Journal of Hospital Infection 89 (2015) 351–356

Available online at www.sciencedirect.com



Journal of Hospital Infection

journal homepage: www.elsevierhealth.com/journals/jhin



Harmonizing and supporting infection control training in Europe

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R. Gallagher^c, P. Hartemann^d, J. Holt^e, S. Kalenic^f, W. Popp^g,
G. Privitera^h, V. Prikazskyⁱ, C. Velascoⁱ, C. Suetensⁱ, C. Varela Santosⁱ

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^dService d'Hygiène Hospitalière, C.H.U. de Nancy & DESP-SERES, Faculté de Médecine, Vandoeuvre-Nancy, France

^eNational Center for Infection Control, Statens Serum Institut, Copenhagen, Denmark

^fDepartment of Medical Microbiology, University of Zagreb, Zagreb, Croatia

^gHospital Hygiene, University Clinics Essen, Essen, Germany

^hDipartimento di Ricerca Traslationale e delle Nuove Tecnologie in Medicina e Chirurgia, University of Pisa, Pisa, Italy

ⁱEuropean Centre for Disease Prevention and Control, Stockholm, Sweden

The challenge of course harmonization in Europe

The TRICE survey also showed that there are large differences between countries in IC/HH training programmes, related in many cases to the lack of harmonization of the training systems and programmes for HCWs in general. A future progressive harmonization and mutual recognition of IC/HH training programmes must consider the existing legal frameworks in higher education in Europe:

Towards a catalogue of European IC/HH training courses and programmes

One of the main goals of the TRICE-IS project is the revision of IC/HH courses in the EU in agreement with European IC/HH core competencies, with a view to achieving the mutual recognition of IC/HH training courses within European countries in the medium to long term. In order to achieve this, a methodology and criteria for the evaluation of IC/HH courses and training programmes, and standards for their inclusion in a possible future European Catalogue, were developed. Certain inclusion and exclusion criteria have to be met before the course can be evaluated. If the course fails to satisfy these criteria it is returned without further evaluation (Table I).

vylučovací kritéria

vstupní kritéria

hodnotící kritéria

Evaluation of European infection control/hospital hygiene courses: exclusion, inclusion and evaluation criteria (version for pilot evaluation)

Exclusion criteria (the course is excluded from further evaluation if the answer to one of the following questions is 'yes').

Is the proposed course organized by industries?

Is the proposed course sponsored by industry?

Inclusion criteria (the course undergoes further evaluation if the answer to all these questions is 'yes')

Is the proposed course developed at the postgraduate level only?

Is the proposed course designed following the Bologna Process?

Has the proposed course been run and/or done at least once in the last three years (including the case of an ongoing course)?

Is the proposed course based on methods of active teaching/learning?

Is the proposed course organized by one or more of the following categories: educational institution, medical school, nursing school, university, member state ministry of health, public health institute, regional health authority, healthcare organization, professional/scientific society, private hospitals?

Does the proposed course have a minimum number of European Credit Transfer and Accumulation System (ECTS)/hours (2 ECTS or 30 hours direct teaching courses with final examination) following the Bologna Process (http://ec.europa.eu/education/higher-education/bologna_en.htm)?

Does the proposed course cover domains and competencies of at least one area, that can be identified as common or similar to those reflected in the ECDC technical document 'Core competencies for infection control and hospital hygiene professionals in the European Union'?²³

Evaluation criteria

E Is the course denomination (title) present?

D Does the course include the possibility of distance learning?

E Does the course have specifications about the professionals allowed to participate?

D Does the course specify educational background of the students allowed to attend according to different countries?

D Does the course specify competencies of the students allowed to attend according to different countries?

D Is it specified in the course whether the attendees need to be employed in a job that gives access to sufficient IC/HH experience and are required to pass the course?

E Is the duration of the course defined?

D Is the frequency of running of the course defined?

D Is the number of attendees per course/initiative defined?

E Are the faculty name and qualification present?

E Does an official recognition of the course/programme exist?

D Are professional development points available?

E Is the number of hours of formal lectures (including preparation) and of practical experience present? Please enclose a scheme if available.

D Do the students have access to a library?

D Do the students have access to study rooms?

E Is the number of hours for each topic of each module defined (ECTS for each topic if available)?

D Does the course require a pre-course assessment (knowledge and expectation)?

E Is the course evaluated?

D Are the students' assessments needed for accreditation present in the course?

D Are the responses to the students' assessments reviewed?

D Does the course include a questionnaire, sent a few months after the course, so that students can reflect on the course's impact in their work?

D Is funding, availability of fellowships or grants specified in the course?

D Is dedicated time for training given to students by their healthcare organizations presented?

D Does the course define the methods adopted to achieve learning goals?

D Are learning goals within knowledge, skill and competencies formulated?

D How are the students examined? Please specify.

TECHNICAL DOCUMENT

**Core competencies for
infection control and
hospital hygiene professionals
in the European Union**

TRICE-IS projekt

struktura klíčových kompetencí specialistů kontroly infekcí / nemocniční hygieny

Table A1. Areas and domains of competency in infection control and hospital hygiene

Area	Domain
Area 1. Programme management	Elaborating and advocating an infection control programme
	Management of an infection control programme, work plan and projects
Area 2. Quality improvement	Contributing to quality management
	Contributing to risk management
	Performing audits of professional practices and evaluating performance
	Infection control training of employees
	Contributing to research
Area 3. Surveillance and investigation of healthcare-associated infections (HAIs)	Designing a surveillance system
	Managing (implementation, follow up, evaluation) a surveillance system
	Identifying, investigating and managing outbreaks
Area 4. Infection control activities	Elaborating infection control interventions
	Implementing infection control healthcare procedures
	Contributing to reducing antimicrobial resistance
	Advising appropriate laboratory testing and use of laboratory data
	Decontamination and sterilisation of medical devices
	Controlling environmental sources of infections

TRICE-IS projekt

dotazníkové šetření v rámci členských zemí EU



Implementation of a training strategy for infection
control in the European Union

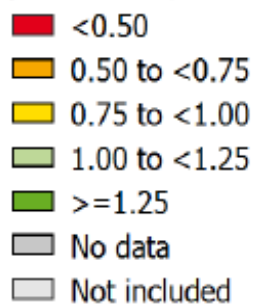


**Implementation of a training strategy for infection
control in the European Union (TRICE-IS)**

Questionnaire

Figure 19. Median number of infection prevention and control nurse full-time equivalents (FTE) per 250 hospital beds (n=866 hospitals), ECDC PPS 2011–2012

Infection prevention
and control nurses
(Median FTE/250 beds)



Non-visible countries

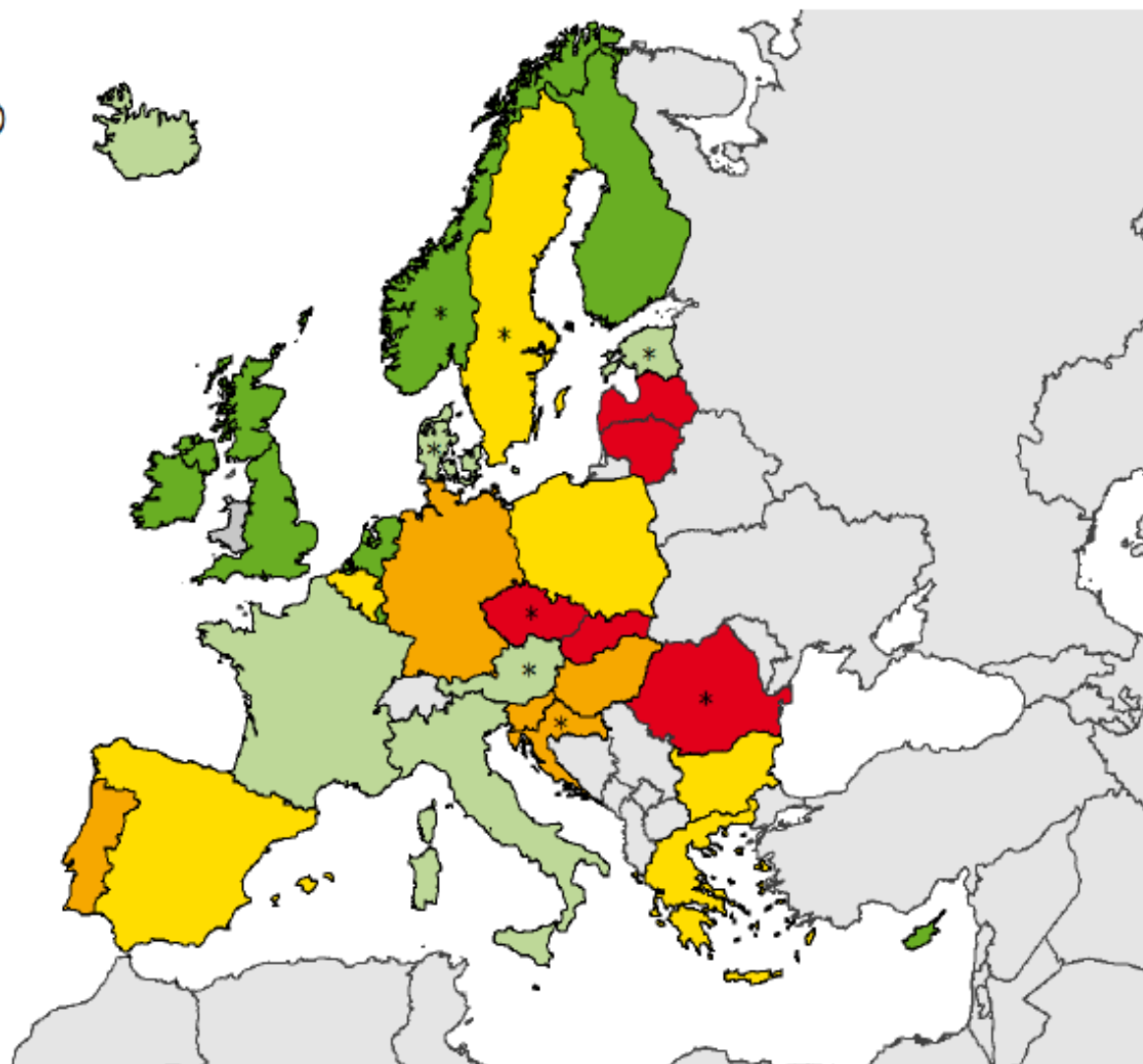
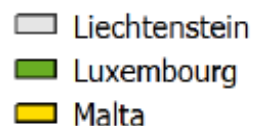
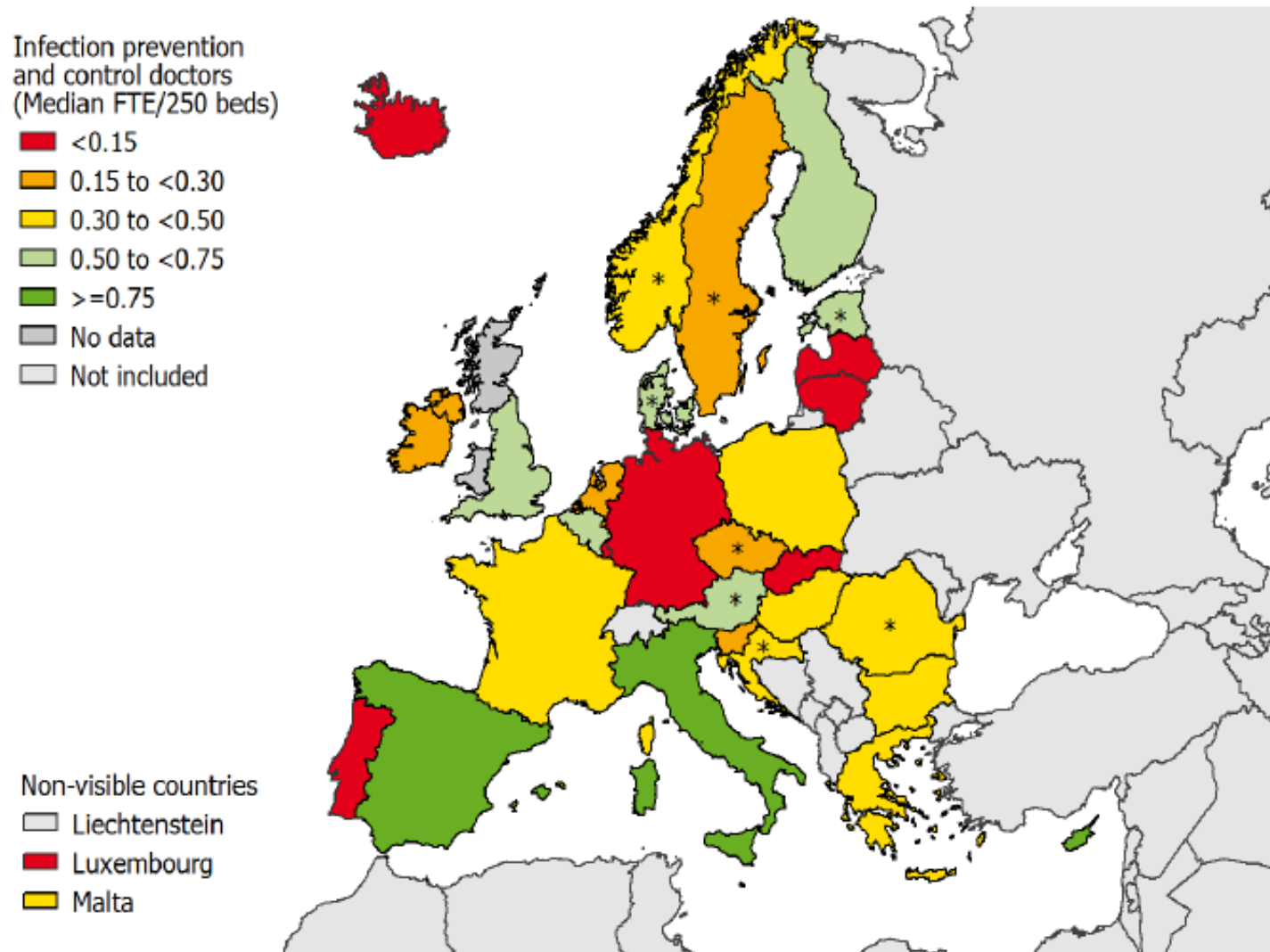


Figure 21. Median number of infection prevention and control doctor full-time equivalents (FTE) per 250 hospital beds (n=779 hospitals), ECDC PPS 2011–2012





Personál prevence a kontroly infekcí

minimální počty lékařů a sester pro prevenci a kontrolu infekcí

Lékaři

lůžka

úvazky

osoby

100 – 300

0,3 – 0,5

1

300 – 500

0,5 – 1,0

1

500 – 1000

1,0 – 2,0

1 - 2

1000 a více

2,0 a více

2 a více

Sestry

lůžka

úvazky

osoby

100 – 300

1,0

2

300 – 500

1,0 – 2,0

2

500 – 1000

2,0 – 4,0

2 – 4

1000 a více

4,0 a více

4 a více



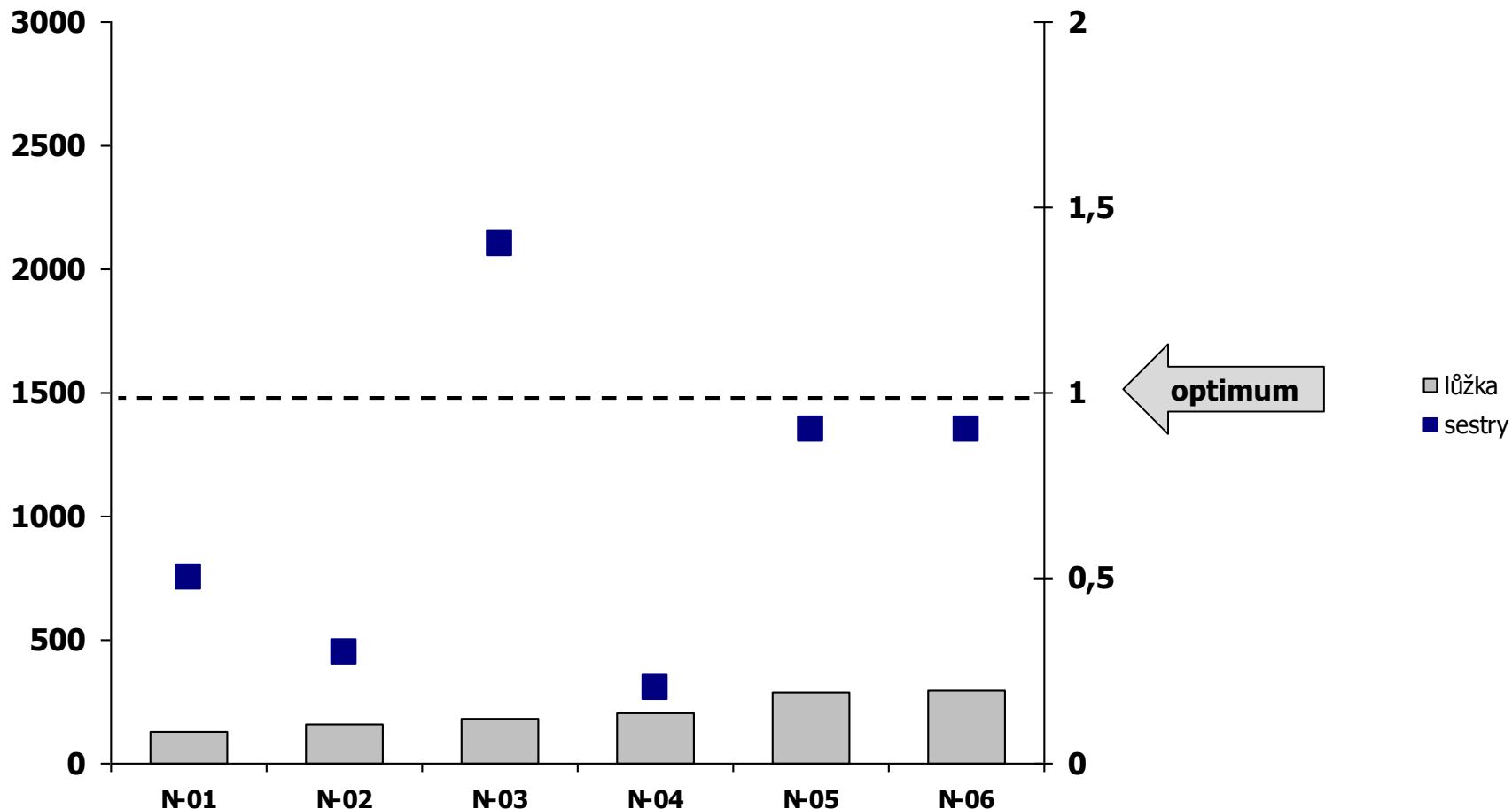
Personál prevence a kontroly infekcí: (PPS-CZ-2015-2016) personální kapacita 26 zúčastněných nemocnic (12 828 lůžek)

- **Lékaři** (průměrný počet úvazků na 500 lůžek)
 - **0,4** úvazku **lékaře** – specialisty prevence a kontroly infekcí na 500 lůžek
- **Sestry** (průměrný počet úvazků na 500 lůžek)
 - **0,5** úvazku **sestry** pro prevenci a kontrolu infekcí na 250 lůžek



Personál prevence a kontroly infekcí: **sestry** (PPS-CZ-2015-2016)

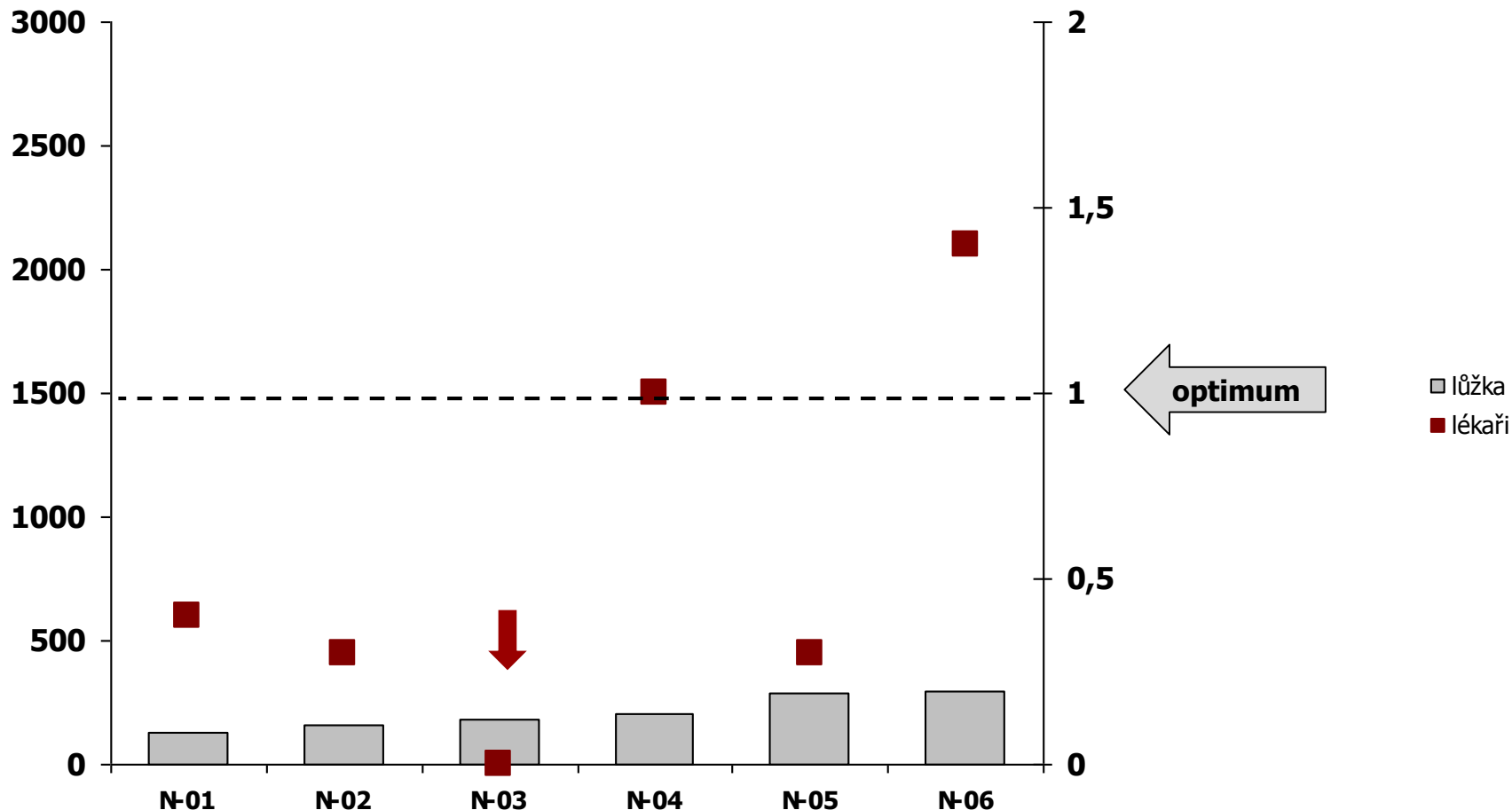
nemocnice **primárního** typu (optimum: 1 úvazek na **250** lůžek = hodnota 1)





Personál prevence a kontroly infekcí: **lékaři** (PPS-CZ-2015-2016)

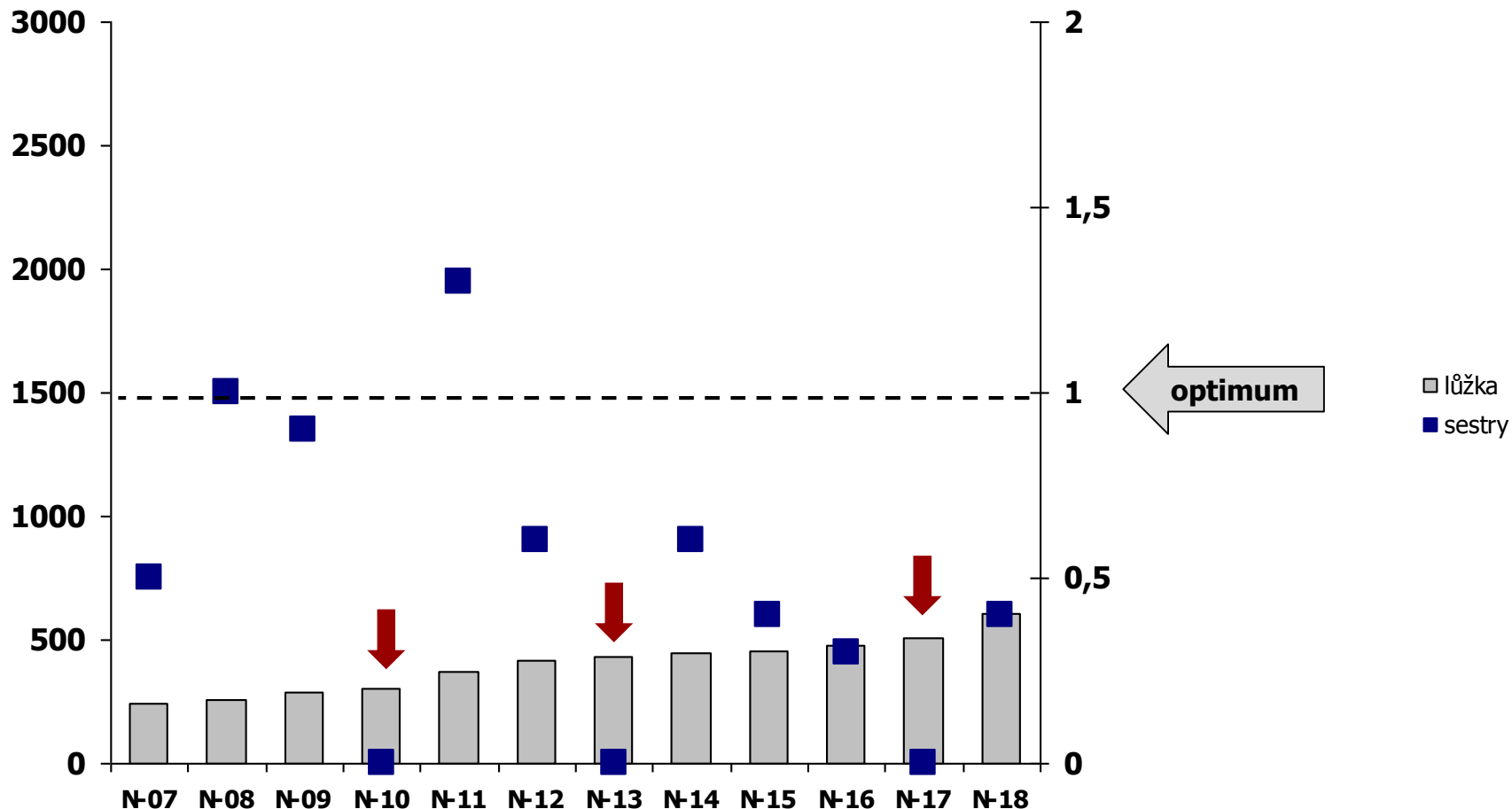
nemocnice **primárního** typu (optimum: 1 úvazek na **500** lůžek = hodnota 1)





Personál prevence a kontroly infekcí: **sestry** (PPS-CZ-2015-2016)

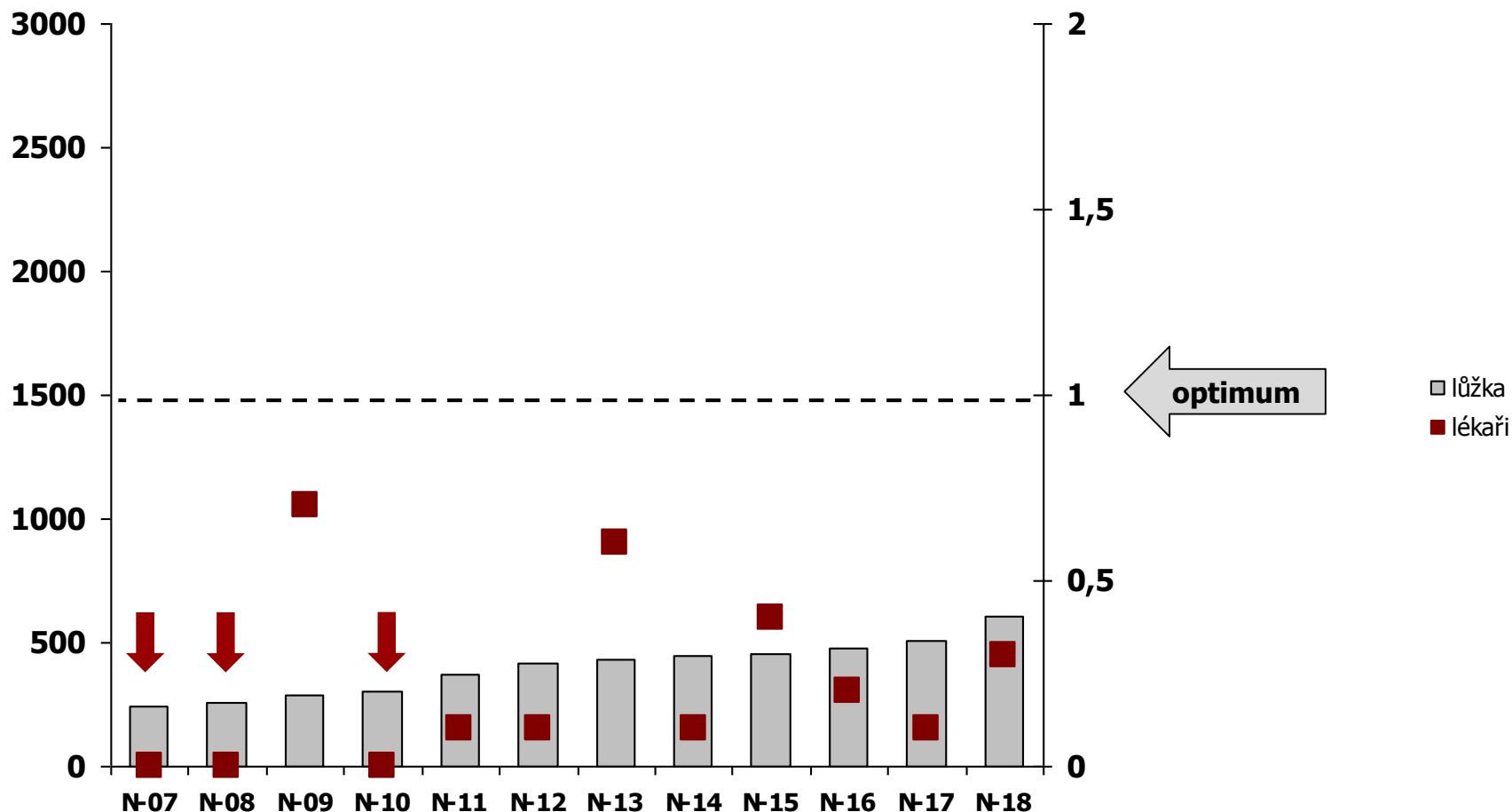
nemocnice **sekundárního** typu (optimum: 1 úvazek na **250** lůžek = hodnota 1)





Personál prevence a kontroly infekcí: **lékaři** (PPS-CZ-2015-2016)

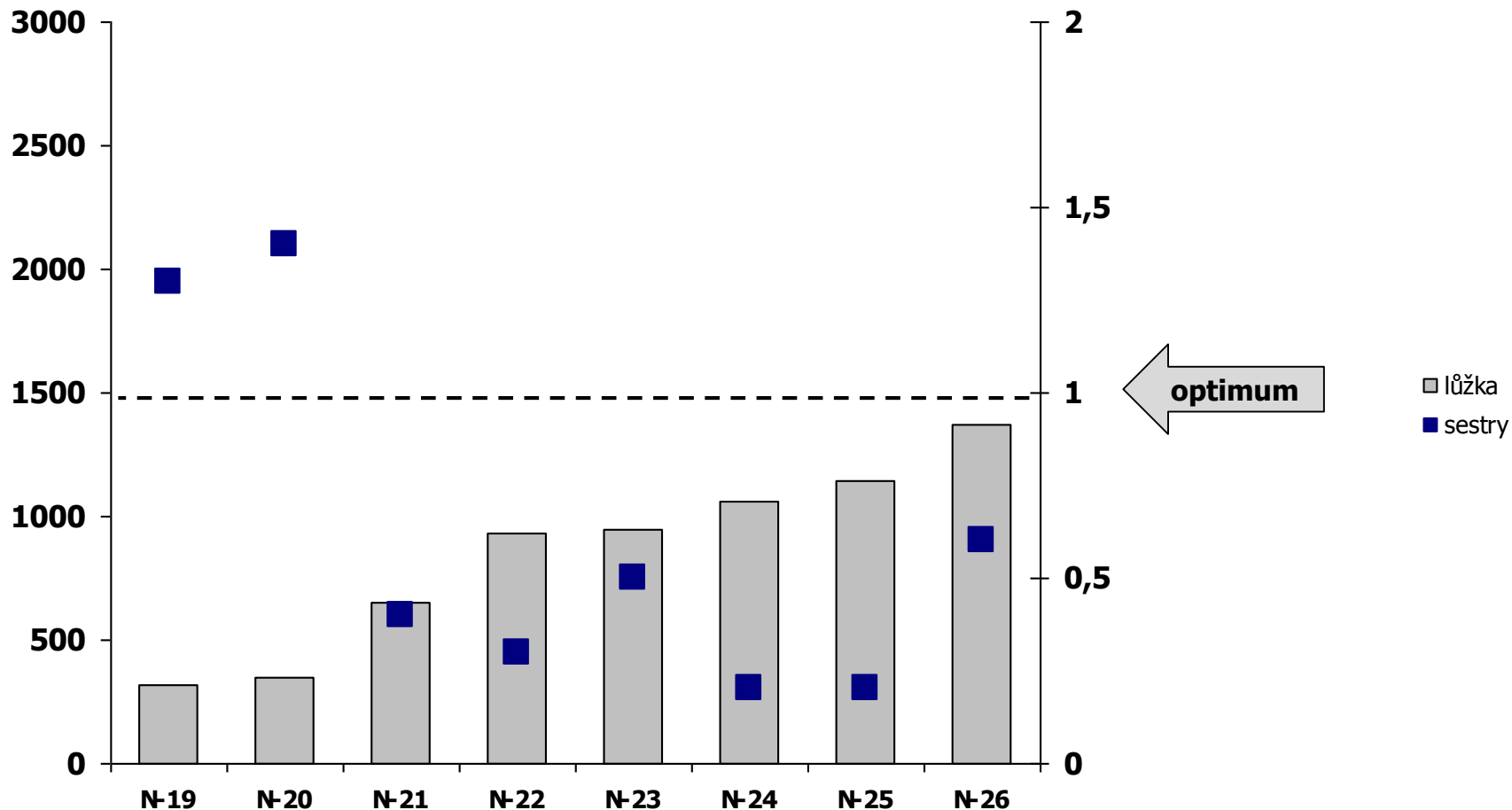
nemocnice **sekundárního** typu (optimum: 1 úvazek na **500** lůžek = hodnota 1)





Personál prevence a kontroly infekcí: **sestry** (PPS-CZ-2015-2016)

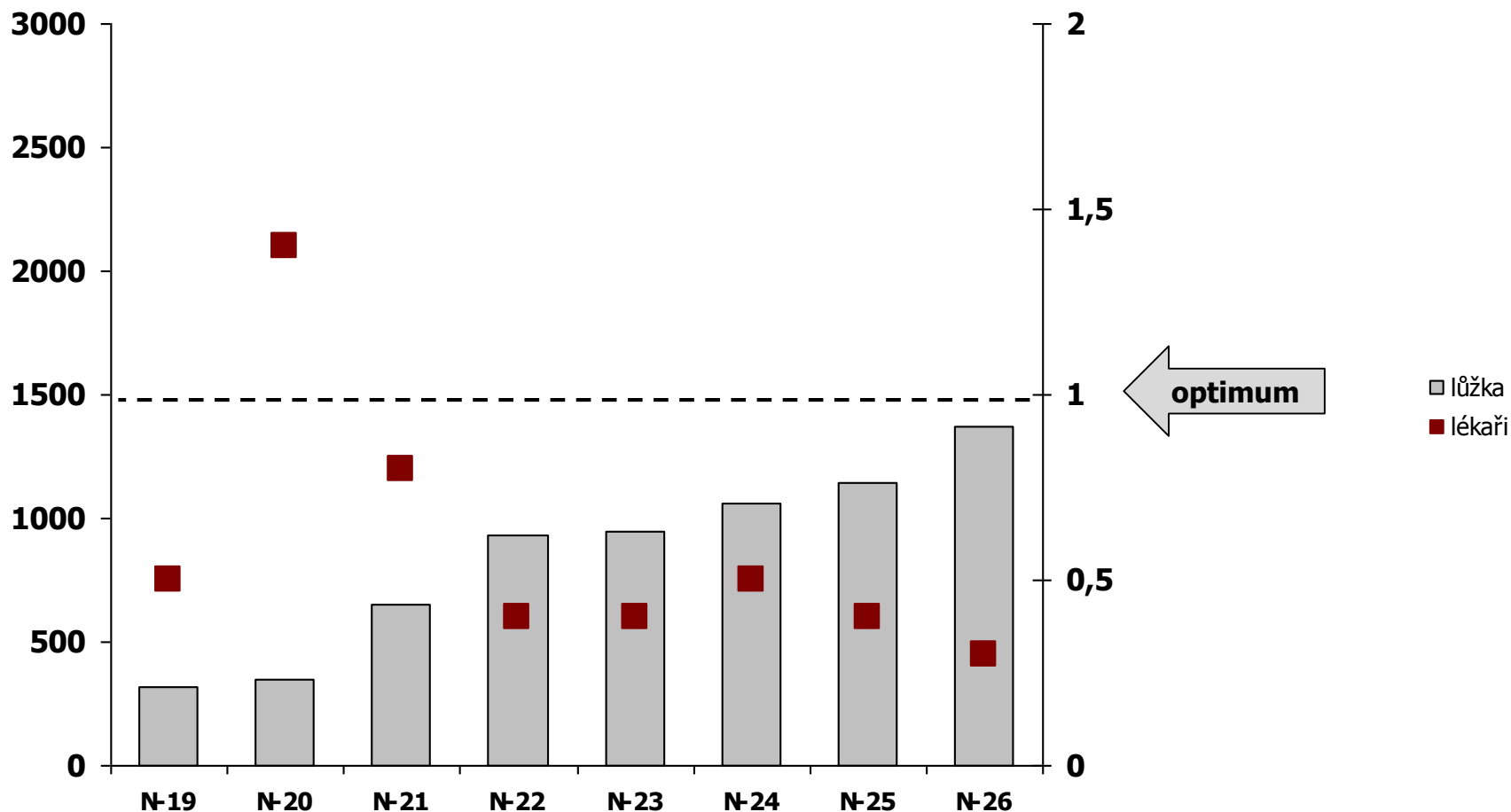
nemocnice **terciálního** typu (optimum: 1 úvazek na **250** lůžek = hodnota 1)





Personál prevence a kontroly infekcí: **lékaři** (PPS-CZ-2015-16)

nemocnice **terciálníhoho** typu (optimum: 1 úvazek na **500** lůžek = hodnota 1)



Příprava specialistů prevence a kontroly infekcí v ČR

klíčová náplň činnosti NRC pro infekce spojené se zdravotní péčí

- Metodická podpora a organizace **surveillance infekcí spojených se zdravotní péčí** na lokální a národní úrovni, v návaznosti na aktivity ECDC
- Koordinace přípravy **metodických postupů v oblasti prevence a kontroly infekcí** ve zdravotnických zařízeních
- Odborná a metodická podpory budování lokální infrastruktury **programu prevence a kontroly infekcí** ve zdravotnických zařízeních

➔ **Vzdělávání pracovníků specializovaných na prevenci a kontrolu infekcí ve zdravotnických zařízeních** ➔

- Odborná pomoc při **řešení epidemiologicky závažných situací** ve zdravotnických zařízeních
- Odborná podpora a metodické vedení při implementaci **lokálních antibiotických programů** nemocnic

Příprava specialistů prevence a kontroly infekcí v ČR

integrovaná výuka lékařů a sester



- Začleněno do **Akčního plánu pro zvládání infekcí „Zdraví 2020“**
- **Lékaři** „Kurz v prevenci a kontrole infekcí v nemocnici“
 - zastřešuje SZÚ – NRC HAI (spolupráce s NNH a ÚVN)
 - **7 výukových bloků** (po 3 dnech)
 - registrace v systému celoživotního vzdělávání ČLK (170 kreditů)
 - závěrečná zkouška a obhajoba práce (diplom SZÚ a NRC-HAI)
- **Sestry** „Certifikovaný kurz v prevenci a kontrole infekcí ve zdrav. zařízeních“
 - zastřešuje 3. LF UK - Ústav ošetřovatelství (spolupráce s NNH a ÚVN)
 - **9 výukových bloků** (po 3 dnech)
 - akreditace Ministerstva zdravotnictví (certifikát a kompetence)
 - závěrečná zkouška a obhajoba práce

Příprava specialistů prevence a kontroly infekcí v ČR

náplň kurzů pro lékaře a sestry pro prevenci a kontrolu infekcí

INT

Úvod

ABS

Principy antibiotické politiky nemocnice

CMI

Základy klinické mikrobiologie

INF

Epidemiologicky významné infekce v nemocnici

HEP

Metody nemocniční epidemiologie

NUR

Ošetrovatelská péče o nemocné v riziku infekce

PCI

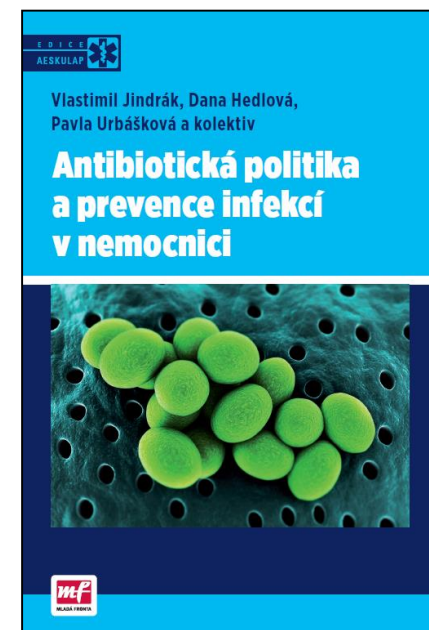
Prevence a kontrola infekcí v nemocnici

HYG

Nemocniční hygiena

PHP

Principy ochrany veřejného zdraví



Příprava specialistů prevence a kontroly infekcí v ČR

evaluace kurzu udělená ECDC (zařazení do portfolia evropských kurzů)



Implementation of a training strategy for infection control in the European Union



Dear Colleague,

We are very grateful to you and your Institution for participating to the first ECDC call of Infection Control/Hospital Hygiene (IC/HH) courses evaluation within the TRICE-Implementation Strategy project.

Your cooperation at this stage of the project was very useful, representing an opportunity for us to learn from your experience and to better understand the state of the art and future perspectives about IC/HH training initiatives in Europe.

Your course has been evaluated by reviewers, experts in IC/HH, through the following process:

- the presence of all inclusion criteria was verified for each course;
- each course was assigned to two different Reviewer Experts (REs) (neither of them was from the same country of course provider) and some member of is the project Core Staff was included as volunteers;
- the satisfaction of each evaluation criteria (essential and desirable) was assessed for each course;
- all other materials/documentation about IC/HH submitted course attached to the forms were included in the evaluation.

At the end of the process, we are delighted to inform you that your course was positively evaluated since all inclusion, exclusion and essential criteria were satisfied.

Příprava specialistů prevence a kontroly infekcí v ČR

pozdávka...

Aktuálně probíhá výcvik **12 sester** a **9 lékařů** ze 13 nemocnic

Další běh kurzu začíná **v lednu 2017** (letní a zimní semestr 2017)

Registrace začíná **od května 2016**

- registrace: **v NRC pro infekce spojené se zdravotní péčí (SZÚ)**
- informace: **www.nrc-hai.cz**
- kontakt: **nrc-hai@szu.cz**