

**NATIONAL PRACTICE OF THE
REPUBLIC OF BELARUS
IN PREVENTING THE INFECTION OF
HEALTHCARE WORKERS WITH
BLOOD-BORNE PATHOGENS**

**IN THE CONTEXT OF EUROPEAN COUNCIL
DIRECTIVE 2010/32/EU**

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Vienna, Austria*



WHO

- **INFECTIOUS DISEASES IN HEALTHCARE WORKERS ASSOCIATED WITH THEIR PROFESSIONAL ACTIVITY ARE CLASSIFIED AS HOSPITAL-ACQUIRED INFECTIONS**

REPUBLIC OF BELARUS

- **Measures to prevent healthcare workers from being infected while performing their professional duties have been incorporated into legislation on the prevention of hospital-acquired infections**
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LEGISLATION IN THE REPUBLIC OF BELARUS

LAW OF THE REPUBLIC OF BELARUS

7 January 2012 No. 340-3

ON THE SANITARY AND EPIDEMIOLOGICAL WELFARE OF THE POPULATION

Adopted by the Palace of Representatives on 14 December 2011

Approved by the Council of the Republic on 20 December 2011

- **Intended to establish the legal and organisational basis for preventing environmental factors from having an adverse impact on the human body in order to protect the sanitary and epidemiological welfare of the population**
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LEGISLATION IN THE REPUBLIC OF BELARUS

- **ORDER OF THE MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS**

25.11.2002 No. 165

“ON DISINFECTION AND STERILISATION BY HEALTHCARE FACILITIES”

- **ORDER OF THE MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS**

23.10.2003 No. 167

“TO APPROVE THE INSTRUCTION FOR THE PREVENTION OF INFECTIOUS DISEASES DURING ENDOSCOPIC PROCEDURES”



LEGISLATION IN THE REPUBLIC OF BELARUS

- **INSTRUCTION 3.5.4.10-22-97-2005**

approved pursuant to Decision no. 272 of 28.12.2005 by the Chief Medical Officer of the Republic of Belarus

**“ORGANISATION OF CENTRALISED STERILISATION
DEPARTMENTS WITHIN HEALTHCARE
ORGANISATIONS”**



LEGISLATION IN THE REPUBLIC OF BELARUS

- **SANITARY RULES AND STANDARDS 2.1.7. 14-20-2005**

approved pursuant to Decision no. 147 of 20.10.2005 by the Chief Medical Officer of the Republic of Belarus
as amended and supplemented on 01.12.2008 no. 207

“RULES ON THE HANDLING OF MEDICAL WASTE”

LEGISLATION IN THE REPUBLIC OF BELARUS

- **DECISION BY THE MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS**

21.03.2011 No. 19

“On amendments and additions to the sanitary standards, rules and hygiene regulations

“HYGIENE REQUIREMENTS FOR THE SET-UP, FITTING-OUT AND UPKEEP OF HEALTHCARE ORGANISATIONS AND FOR SANITARY, HYGIENE AND ANTI-EPIDEMIC MEASURES TO PREVENT INFECTIOUS DISEASES WITHIN HEALTHCARE ORGANISATIONS”

approved pursuant to Decision No. 109 of 9.08.2010 of the Ministry of Health of the Republic of Belarus”



LEGISLATION IN THE REPUBLIC OF BELARUS

- **ORDER OF THE MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS**

16.12.1998 No. 351

“REVIEW OF DEPARTMENTAL REGULATIONS GOVERNING HIV/AIDS-RELATED ISSUES”

- **DECISION OF THE MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS**

19.10.2009 No. 109

TO APPROVE THE INSTRUCTION ON THE PROCEDURE FOR ORGANISING THE PROVISION OF MEDICAL ASSISTANCE TO PERSONS INFECTED WITH THE HUMAN IMMUNODEFICIENCY VIRUS



LEGISLATION ON THE PREVENTION OF BLOOD-BORNE INFECTIONS IN THE REPUBLIC OF BELARUS

- **DECISION OF THE MINISTRY OF HEALTH
OF THE REPUBLIC OF BELARUS**

06.02.2013 No. 11

**“REQUIREMENTS FOR THE ORGANISATION AND
IMPLEMENTATION OF SANITARY AND ANTI-
EPIDEMIC MEASURES TO PREVENT THE
OCCURRENCE AND SPREAD OF VIRAL
HEPATITIS”**

REQUIREMENTS CONCERNING WORKING CONDITIONS FOR HEALTHCARE WORKERS

- Take precautionary measures when working with piercing and cutting implements
- Provide healthcare organisation employees with personal protective equipment (PPE)
 - “Healthcare authorities used as clinical environments for medical training and/or improvement of skills and refresher training for healthcare workers must additionally be provided with PPE **for students and course participants**”
- When using personal protective equipment, healthcare workers must obey the relevant rules

SYSTEM FOR REPORTING INJURIES INVOLVING PIERCING AND CUTTING MEDICAL IMPLEMENTS

Logbook for incidents where healthcare organisation staff come into contact with patient biological material

No	Full name of person who came into contact with biological material	Date and time of contact	Circumstances in which contact with biological material occurred	Nature of contact	Source of possible infection and testing for infection with HIV	HIV testing for person who has come into contact with HIV-infected person		Details of anti-epidemic measures taken, including administration of preventive antiretroviral drugs
						after contact	after 6 months	
1	2	3	4	5	6	7	8	9

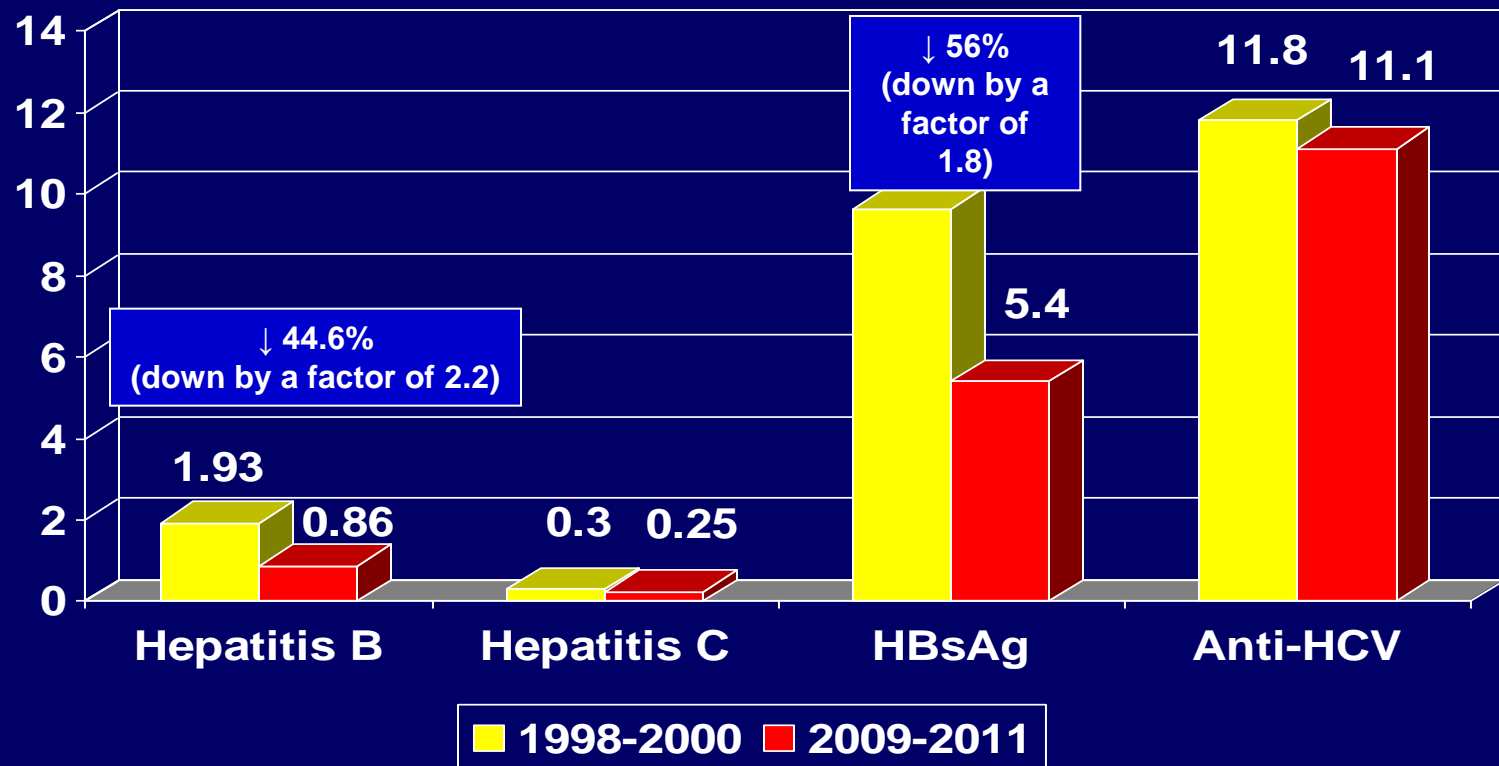
Post-exposure prophylaxis

VACCINATION against Hepatitis B

Positive trends

- **Change in the epidemic process since vaccination was implemented**
 - **Positive trend in the main epidemiological characteristics**
 - **Reduced incidence of hepatitis B**
 - **Change in the etiological structure of parenteral viral hepatitis**
 - **Change in the age and socio-professional background of hepatitis B sufferers**
 - **Change in the structure of modes of transmission and factors causing the spread of infection**
 - **Healthcare workers in surgical fields are one of the first groups to have been vaccinated**
 - **Vaccination is compulsory for students at medical universities, nurses and doctors (not vaccinated previously)**
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INCIDENCE OF DISEASE AMONG HEALTHCARE WORKERS DUE TO PARENTERAL VIRAL HEPATITIS from 1998 – 2009 (cp. мн. per 10,000 healthcare workers)



ORGANISATION AND TRAINING FOR HEALTHCARE WORKERS ON PROPHYLAXIS FOR HOSPITAL-ACQUIRED INFECTIONS

- **Training for medical staff at prevention and treatment facilities**
 - **is provided through topic-based plans and programmes**
 - factors determining whether healthcare workers in various specialisms should attend are considered
 - **Is provided through summary lectures**
 - lectures are delivered by trained experts from provincial and municipal healthcare institutions and clinical departments of medical universities

Topic-based training plan for doctors

No.	Topic	Number of hours		Total
		theory	practical	

ORGANISATION AND TRAINING FOR HEALTHCARE WORKERS ON PROPHYLAXIS FOR HOSPITAL-ACQUIRED INFECTIONS

CLASSES ARE HELD

- **During the first year of training**
 - as per the topic-based plan, comprehensive
 - **During subsequent years**
 - as per the topic-based plan – focusing on
 - the main aspects of the issue
 - analysis of failings in the workplace in specialisms
 - **Final classes**
 - tests and case studies
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- Senior physicians at medical institutions organise and are responsible for conducting on-the-job training
 - Records of training and attendance are kept in a log
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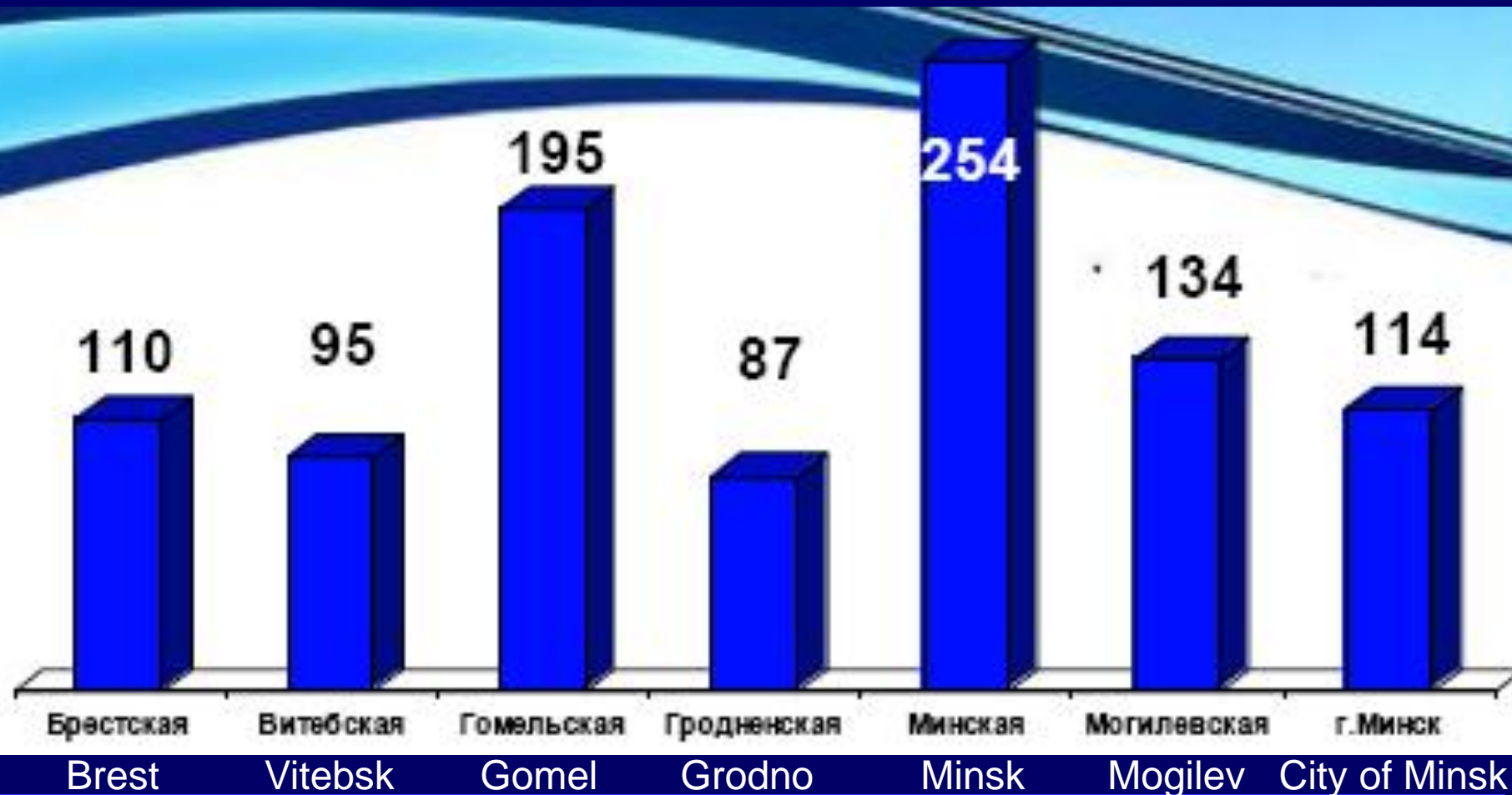
ORGANISATION AND TRAINING FOR HEALTHCARE WORKERS ON PROPHYLAXIS FOR HOSPITAL-ACQUIRED INFECTIONS

- **TRAINING FOR PARAMEDICAL PERSONNEL**
 - Is delivered at local centres
 - Prerequisite for training – running practical classes to improve work skills, incident response

Topic-based training plan for paramedical personnel

No.	Topic	Number of hours		Total
		theory	practical	

NUMBER OF HEALTHCARE WORKERS IN THE REPUBLIC OF BELARUS WHO CONTRACTED BLOOD-BORNE INFECTIONS (2009-2011)



ETIOLOGY

OF BLOOD-BORNE INFECTIONS AMONG HEALTHCARE WORKERS IN THE REPUBLIC OF BELARUS (2010-2011)

Disease	Actual	Proportion (%)
Acute hepatitis B	3	0.62
Acute hepatitis C	8	1.67
Chronic hepatitis B	31	6.47
Chronic hepatitis C	110	22.96
HBsAg carrier status	55	11.48
Anti-HCV carrier status	247	51.56
Infection with HIV	25	5.55
Total	479	100

WAYS IN WHICH EMPLOYERS CAN IMPROVE PROPHYLAXIS

↓ RISK OF INFECTION – CAREFULLY THOUGHT-OUT SYSTEM OF PREVENTIVE MEASURES

- Follow all sanitary and anti-epidemic procedures
- Provide healthcare institutions with modern equipment
- Increase the personal responsibility of hospital-acquired infection prophylaxis workers
- Implement forms and methods in healthcare institutions which comply with safety regulations
- Strict implementation of universal preventive measures and appropriate personal protective equipment
- Epidemiological analysis of cases of occupational infection of healthcare workers, adjusting anti-epidemic measures in each specific case
- Documenting contact incidents
- Further enhancement of the legislative framework

WAYS OF IMPROVING PROPHYLAXIS. PUBLIC MONITORING BY TRADE UNION ORGANISATIONS

- Each trade union organisation must take comprehensive measures to organise and implement **public monitoring of implementation** of current legislation concerning the
 - prophylaxis
 - detection
 - investigationof occupational infection of workers with blood-borne pathogens



**THANK YOU FOR YOUR
ATTENTION!**