Bukovinian State Medical University

Chernivtsi, Ukraine





ABOUT US

BSMU at a glance

1944
year founded; more than 35,000 graduates since

7,329
learners at all levels (1 January 2026)

539
academic staff, including 102 Doctors of Science

78
foreign partner universities and research institutions

Group A
national research attestation, biomedical field (2025)

h 37
Scopus h-index; 8,209 citations (2026)

2nd
among Ukrainian medical universities, Webometrics (July 2025)

5th
among Ukrainian universities in Medicine, SCImago 2025

BSERVATORY
MAGNA CHARTA UNIVERSITATUM

ACRU
ASSOCIATION OF CARPATHIAN REGION UNIVERSITIES

EUA
European University Association

INTERNATIONAL ASSOCIATION OF UNIVERSITIES
INTERNATIONAL UNIVERSITIES BUREAU

World Health Organization

STRUCTURE · AS OF 1 JANUARY 2026

Undergraduate Education

4 faculties **48 departments** **Professional College**

Undergraduate education

2,751

Medical Faculty	**1,231**
Medical-Psychological	**443**
Medical-Pharmaceutical	**410**
Dental Faculty	**361**
Professional College	**306**

- Medicine (*Master's Degree*)
- Dentistry (*Master's Degree*)
- Medical Psychology (*Master's Degree*)
- Pharmacy, Industrial Pharmacy (*Master's Degree, Associate Degree*)
- Nursing (*Master's Degree, Bachelor's Degree, Associate Degree*)
- Therapy and Rehabilitation (*Bachelor's Degree*)

STRUCTURE · AS OF 1 JANUARY 2026

Postgraduate Education

Institute of Postgraduate Education

Physicians in training	**2,963**
Interns	**748**
Nurses in training	**678**
Pharmacists in training	**89**

Postgraduate trainees: 3,730 physicians, nurses and pharmacists

Internship programs (*22 specialties*)
Fellowship programs (*80 specialties*)
Lifelong learning programs (*32 specialties*)

Doctoral and Postdoctoral School

PhD programs in the following fields:

I1 Dentistry
I2 Medicine
I3 Pediatrics
I5 Nursing

Postdoctoral programs in the following scientific specialties:

14.01.01 – Obstetrics and Gynecology
14.01.02 – Internal Medicine
14.01.03 – Surgery
14.01.10 – Pediatrics
14.01.11 – Cardiology
14.01.22 – Dentistry
14.01.25 – Forensic Medicine
14.03.01 – Normal Anatomy (Medical Sciences)
14.03.04 – Pathological Physiology (Medical Sciences)

RESEARCH CAPACITY

Developing research infrastructure

IN DEVELOPMENT

Core Facility for shared use of scientific equipment

A shared-use centre that pools the University's research instruments for research teams and joint projects.

New equipment

- FluoroMax Plus spectrofluorometer with Micromax-384 microplate fluorescence reader (Horiba, Japan)
- Ultra-low temperature laboratory freezer

RE-ACCREDITED 2025–2030

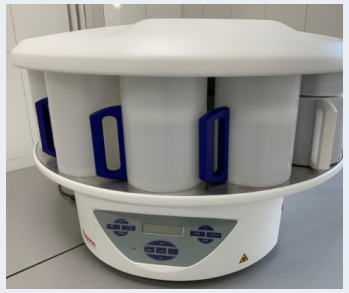
Research and Teaching Laboratory

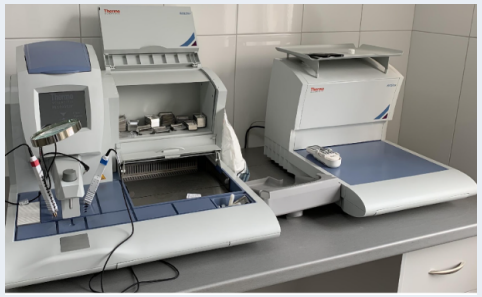
Certificate of technical competence valid from 11 September 2025 to 11 September 2030

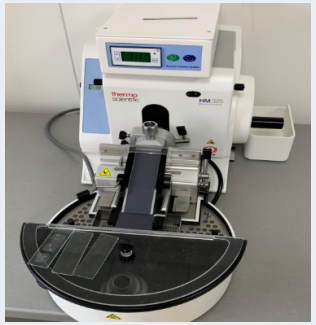
24
accredited workstations

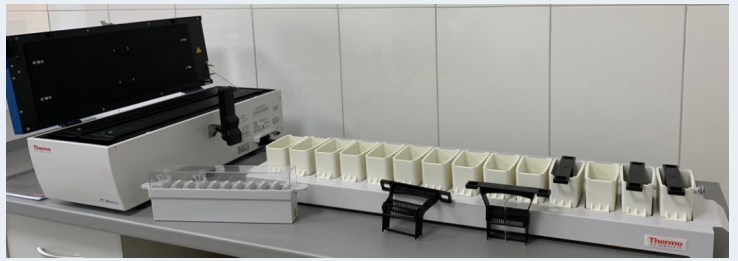
50
standard operating procedures

Biochemistry and immunochemistry · General clinical · Immunohistochemistry · Histology · PCR











CLINICAL BASE

University Clinic: teaching and care

Primary health care under a National Health Service of Ukraine contract, since 1 March 2026

- Consultations with primary care physicians
- Prevention, diagnosis and treatment of common diseases
- Follow-up and referrals to laboratory, imaging and specialists

Dental care for defenders of Ukraine

Prosthetics and treatment for servicemembers under national health service packages; contract renewed in January 2026. Accredited training base for dental interns.

Wider clinical network

- 29 clinical departments in city and regional hospitals
- 94,888 consultations
- 4,261 operations
- 10,056 invasive and diagnostic procedures a year

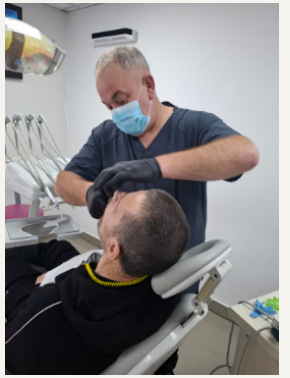
Centre for Assessment of Functional Status (1763 appeal cases reviewed since March 2025, 13.6% of all cases nationally)

459
servicemembers treated under the dental packages

1,690
dental services provided

UAH 2.33 M
clinic income in 2025





CLINICAL BASE

Clinical Research Center

75

Studies in 2021

14

Clinical studies in progress

12

Principal investigators

NEONATOLOGY

- NEU-STIM, NCT05942924
- NEU-VODE, NCT06757543

UROLOGY

- TANGO I, NCT02166476
- ICON, №9002/0512

ONCOLOGY

- DISTINCT, NCT03098030
- BAT1706 vs EU-Avastin, NCT03329911
- STELLA, NCT03296163

INTERNAL MEDICINE

- Harmony Outcomes, NCT02465515
- CREDENCE, NCT02065791
- SELECT, NCT03574597
- CLEAR Outcomes, NCT02993406
- Amizon® Max, NCT04682873
- Study of BP-SCIG 20% in Patients With Primary Immunodeficiency (PID), NCT07346859





MENTAL HEALTH

Medical-Psychological Centre

532
individual consultations

45
group sessions of 10–16 people

8
psychologists and psychotherapists

45
participants, 2nd Summer School (July 2026)

Certified trainers and facilitators of WHO scalable psychological interventions

Self-Help Plus | **Problem Management Plus** | **Mind-Body Medicine**

Partners and recognition

- Inner Strengths Program with its founder, Dr Tom Hendriks (Tilburg University, Netherlands)
- National mental health programme “How are you?”
- Regional Centre for Disease Control, Ukrainian Union of Psychotherapists, Ukrainian Red Cross
- “Power of Gratitude” award for mental health support







MEDICAL EDUCATION

Simulation Training Centre

800 m²

of simulation training space

406

participants from 5 countries at “Medical Simulation: A Look into the Future”, February 2026

31

CPD events for doctors in 2025–2026



Equipment

- Robotic adult and newborn patient simulators
- Manikins for difficult airway, CPR, obstetrics and newborn care
- Family medicine clinical skills laboratory
- Dental phantom classroom with 14 workstations

National and European role

- Host of the Ministry of Health working group on standardising simulation training and OSCE
- Coordinator of Erasmus+ SimS; WHO Basic Emergency Care training site
- Member of the COST Action proposal SEARCH on simulation in healthcare
- Annual Conference with International Participation: “Medical Simulation: A Look into the Future”







INTERNATIONAL TRACK RECORD

Newly won projects

Horizon Europe · Twinning | BSMU coordinator

TWIN-NEURODATA-UA

Twinning for Excellence in Early Neurodevelopment Research and Data Science in Ukraine · HORIZON-WIDERA-2026-02-WIDENING-01

Partners: University of Pisa (Italy), Karolinska Institutet (Sweden)

Aim: stronger research capacity at BSMU and a mechanism for responsible governance of sensitive medical data through ethical use of AI. The first initiative of its kind in Ukraine.

Erasmus+ · KA220-HED | BSMU partner

APEMED

Advancing Patient Education in Medical Higher Education · KA220-HED-000461317

Coordinator: Burgas State University (Bulgaria). **Partners:** BSMU (Ukraine), University of Craiova (Romania), Amasya University (Türkiye)

Aim: a digital platform to train students and doctors in patient education on gynaecological oncology.

GRANT POLICY

International projects in implementation

SimS

Erasmus+ CBHE · 2023–2025

Coordinator

1,270 people trained in emergency first response

ClimAIr

Horizon Europe · 2025–2029

Clinical partner

AI links air pollution to respiratory allergy

RESTORY

Horizon Europe · 2024–2026

Partner

Heritage research on the historic Rosha settlement

D-CREDO

Erasmus+ KA220 · 2025–2027

Partner

15 modules on digital health in clinical reasoning

UkraineDigiTrans

Erasmus+ CBHE · 2025–2027

Partner

4 digital-pedagogy courses for 95 teachers

PERFECT

Erasmus+ · 2024–2027

Partner

23 piloted modules of English for nurses

INSPIRE

Erasmus+ CBHE · 2025–2029

Partner

Towards institutional accreditation in Ukraine

Medical Education Development

Swiss SDC · 2018–2029

Pilot institution

Faculty development; SESAM, AMEE, EURACT

Working project ideas of BSMU research teams; consortium roles and partners are open for discussion.

ClimExpo-UA

HORIZON-HLTH-2027-01-ENVHLTH-02

In Ukraine heat, air pollution and wildfires overlap with war damage. A thyroid cohort links wearable and geospatial exposure data with internal biomarkers.

- **Exposures:** heat, air and water pollution, war metals
- **Biomarkers:** metals, disruptors, thyroid function
- **Models:** toxicant-to-thyrocyte, EU reference cohort

Partners sought: WP leader, exposome analytics, environmental data science, FAIR data

KEY PUBLICATION

Vlasyk LI, Prodanchuk GM, Snoz SV, Smerdova LM. The state of the environment in the conditions of the full-scale war of the russian federation against Ukraine. One Health and Nutrition Problems of Ukraine. 2025;(1(62)):7–18. Available from: https://pronut.medved.kiev.ua/index.php/en/issues/2025/1/item/615-the-state-of-the-environment-in-the-conditions-of-the-full-scale-war-of-the-russian-federation-against-ukraine

NeuroMetaProtect

HORIZON-HLTH-2027-02-DISEASE-14-two-stage

Type 2 diabetes and metabolic syndrome speed up neurodegeneration through mitochondrial dysfunction and oxidative stress. We test repurposed neuroprotectors and validate biomarkers for clinical trials.

- **Models:** Alzheimer and diabetic brain, with sex stratification
- **Biomarkers:** mitochondrial-oxidative panel, acetylation phenotype

Partners sought: WP leader, preclinical neuropharmacology, clinical centers

KEY PUBLICATION

Kmet T, Pruhlo Y, Yaremii I, Kmet O, Slobodian K. Cognitive impairment in endocrine and metabolic disorders: the role of sigma-1 receptors and the potential of pyrrole derivatives. RJDNMD [Internet]. 30Sep.2026 [cited 26Oct.2026];33(3):441-6. Available from: https://rjdnmd.org/index.php/RJDNMD/article/view/2212

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NeuroInfant

HORIZON-HLTH-2027-02-IND-02-two-stage

Hypoxic-ischaemic encephalopathy and disorders of brain maturation are often diagnosed too late. We build a validated AI decision-support system for infants aged 0–12 months.

- **Data:** aEEG, HRV, General Movements Assessment, HINE
- **Dataset:** 420 aEEG, 370 clinical cases, 100 GMA videos
- **Device idea:** wearable aEEG cap and chest sensor with an app

Partners sought: Coordinator/WP leader, neonatal signal processing, device engineering, clinical centres

KEY PUBLICATION

Reznichenko D, Frunza A, Babintseva A, Karpliuk Y, Romanchuk O, Popov A, Ivanko K and Chaikovsky I (2026) Quantitative assessment of heart-brain coupling in neonates with hypoxic-ischemic encephalopathy. Front. Netw. Physiol. 6:1889331. https://doi.org/10.3389/fnetp.2026.1889331

CardioMetaAI-UA

HORIZON-HLTH-2027-02-TOOL-01-two-stage

AI models that combine genetic and low-cost digital biomarkers to predict progression and treatment response in hypertension and cardiometabolic disease in primary care.

- **Genetics:** gene polymorphism and QTL panels, ML models, primary-care cohort
- **Digital signals:** quantitative ECG and smartphone PPG, cohorts with known treatment response

Partners sought: WP leader, AI and data science, European reference datasets

KEY PUBLICATION

Sydorchuk L, Sokolenko M, Sydorchuk R, Sokolenko A, Kamyshna I, Sokolenko L, Moroz P, Sydorchuk A, Sokolenko O, Halabitska I, Petakh P, Kamyshnyi O. Genetic determinants of metabolic–inflammatory dysregulation and machine learning prediction of COVID-19. Frontiers in Cellular and Infection Microbiology. 2026;16:1874596. https://doi.org/10.3389/fcimb.2026.1874596

Working project ideas of BSMU research teams; consortium roles and partners are open for discussion.

ChronoSafe

HORIZON-HLTH-2027-01-CARE-02

Therapy is personalised by dose and genes, but rarely by time of intake. We reduce adverse drug reactions in older patients on polypharmacy.

- **Time windows:** safest intake times for high-risk drug classes
- **Phenotyping:** circadian biomarkers, wearable sleep and activity sensors
- **Trial arm:** chronotherapy-guided versus standard prescribing

Partners sought: WP leader, pharmacovigilance platform, AI personalisation models

KEY PUBLICATION

Mykytyuk O. Circadian disruption and persistent sleep disorders in osteoarthritis: implications for comprehensive management [abstract]. In: Cajochen C. Thirty-Fifth Annual Meeting of the Society for Light Treatment and Biological Rhythms (SLTBR), 20–22 June 2024, Prague, Czech Republic. Clocks & Sleep. 2024;6(4):690–748 (p. 736).

AI-MedChem-AMR

HORIZON-HLTH-2027-01-DISEASE-08

A closed loop from clinical resistance to AI design, synthesis and testing of new small-molecule antimicrobials.

- **Design:** ML and LLM-guided triazole and xanthine scaffolds
- **Synthesis:** hit-to-lead optimisation and structure-activity loop
- **Testing:** resistant isolates from diabetic foot and combat wounds

Partners sought: WP leader, structural biology, screening, ADMET and toxicology

KEY PUBLICATION

Pruhlo Y, Iurchenko I, Tomenko A. Modeling of new agents with potential antidiabetic activity based on machine learning algorithms. Applied Chem. 2025;5(4):30. https://doi.org/10.3390/appliedchem5040030

Working project ideas of BSMU research teams; consortium roles and partners are open for discussion.

LimbLife-UA

HORIZON-HLTH-2027-02-DISEASE-01-two-stage · STAYHLTH-01

One registry of patients with limb ischaemia, diabetic foot and amputation, including war-related vascular injuries, supports two linked proposals.

- **Save the limb:** angiosome-guided revascularisation and wound care; endpoint amputation-free survival
- **Live after amputation:** rehabilitation, prosthetics, telerehabilitation and inclusion

Partners sought: WP leader, health economics, imaging and AI, rehabilitation, veteran organisations

KEY PUBLICATION

Kolotylo OB, Ivanitskyi AV, Nechytailo OYu. Laser vaporization as a debridement method for diabetic foot ulcers: clinical effectiveness assessed by transcutaneous oximetry. *International Journal of Endocrinology (Ukraine)*. 2026;22(3). https://doi.org/10.22141/2224-0721.22.3.2026.1706

OptiScreen-UA

HORIZON-HLTH-2027-02-IND-02-two-stage · CANCER-02

Oral cancer has a far better prognosis when found early, yet screening stays in specialised centres.

- **Screen:** portable saliva Raman spectroscopy with AI, validated against histology
- **Reach:** primary care and frontline regions, equity of access
- **Connect:** BSMU cancer site joins a European cancer infrastructure

Partners sought: WP leader, device engineering, data science, health economics

KEY PUBLICATION

Ivashchuk O and Hovornyan S (2026) Prospective multi-centre evaluation of guideline–based artificial intelligence to streamline multidisciplinary tumour board. Front. Oncol. 16:1785951. https://doi.org/10.3389/fonc.2026.1785951

THANK YOU

Let’s build the next consortium together

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