



Ministry of Science and Higher Education
Republic of Poland

Co-financed by the project of Minister of Science and Higher Education "Industry Contact
Points for the Horizon Europe Research and Innovation Framework Programme"



Industry
Contact
Point
Medical
Technologies
and Health



Industry
Contact
Point
Digital
Transformation



Industry
Contact
Point
Industry 4.0

LOWER
SILESIA



DOLNY
ŚLĄSK

STUDY VISIT & MATCHMAKING

Digital hospital

Please wait

Intro



4th Military Clinical Hospital

Independent Public Health Care Institution in Wrocław

Brig. Gen. MD, Professor Wojciech Tański, Commander

<https://4wsk.pl>

Contact:

szpital@4wsk.pl

sekretariat@4wsk.pl



Our organization



Basic information:

- The 4th Military Clinical Hospital Independent Public Health Care Institution in Wrocław treats over 60,000 patients annually in its departments
- We provide professional advice to approximately 200,000 patients in specialist and primary care practices
- The hospital conducts numerous scientific projects, medical experiments, clinical trials, complementing its research and development activities
- We have become a recognized and trusted medical facility in the region

Our experience in international projects:

- **„DIGI MIND”** – The impact of the digital environment on metabolic health
- **Digital pathology** and the use of artificial intelligence in histopathological diagnostics
- **Implementation and testing of pilot telemedicine** solutions within the „Geriatrics” and „Chronic Diseases” models in Wrocław and the Lower Silesian Voivodeship
- **Assessment of medical Staff’s experiences** and options regarding telemedicine
- **The Hello Trial** – European Society of Intensive Care Medicine
- **PROGRES** – lumbar instability observational study
- **ANDROMEDA-PEGASUS** – pressure assessment in tracking changes in stroke volume



Our research asset



The 4th Military Clinical Hospital Independent Public Health Care Institution in Wrocław consists of:

- 40 large centers, clinics and multi-profile clinical departments
- An emergency department with helipad
- High-specialized diagnostic laboratories
- Polyclinic and full-service dentistry
- Specialized medical and diagnostic equipment, enabling rapid and accurate diagnosis and effective treatment
- Over 2,000 employees, including highly qualified medical personnel who constantly improve their qualifications
- The Education and Innovation Centre is responsible for conducting scientific activities at the hospital
- Clinical trials are conducted using the infrastructure of the Clinical Research Support Centre
- The hospital's structure includes the Regional Digital Medicine Centre
- The Fundraising Department is responsible for applying for external funding for research projects
- The hospital's Cybersecurity Department is considered a leading one in the country
- We are an important scientific partner of the Faculty of Medicine of the Wrocław University of Science and Technology
- Research collaboration with the Polish Academy of Sciences Institute and the PORT Łukasiewicz Research Centre



Selected Horizon Europe 2027 Calls



- **HORIZON-HLTH-2027-01-STAYHLTH-01:**
Addressing disabilities through the life course to support independent living and inclusion
- **HORIZON-HLTH-2027-02-DISEASE-01 two-stage:**
Innovative healthcare interventions for non-communicable diseases
- **HORIZON-HLTH-2027-02-DISEASE-14 two-stage:**
Clinical trials for advancing innovative interventions for neurodegenerative diseases
- **HORIZON-HLTH-2027-03-TOOL-08:**
Towards Artificial General Intelligence (AGI) for healthcare

DiabetesGuard — AI Prevention of T2D Complications in Military & Civilian Populations

Horizon call: HORIZON-HLTH-2027-02-DISEASE-01

- Innovative healthcare interventions for non-communicable diseases



The Problem

- Over 60 million Europeans live with type 2 diabetes (T2D); 40% will develop severe complications within 10 years
- Military personnel may face increased risk of T2D due to chronic stress, sleep disruption and occupational burden
- Current monitoring is reactive — complications are detected too late for effective intervention

Our Strengths:

- Large military-civilian clinical population
- Established Clinical Research Support Centre
- Regional Digital Medicine Centre
- Advanced cybersecurity infrastructure
- Experience in international research projects
- Unique access to military and civilian populations enables validation of predictive models across diverse healthcare settings.

Project Vision

Develop and validate a multimodal AI platform that predicts diabetic complications (cardiovascular, renal, neuropathy) 18–24 months in advance, enabling personalised prevention protocols.

Clinical impact

Earlier identification of patients at risk may enable targeted interventions and reduce preventable diabetic complications.

Key Innovation

- Integration of continuous glucose monitoring (CGM), wearable biosensors, EHR data and lifestyle markers into a single federated AI model
- Military-specific occupational and lifestyle factors integrated into predictive modelling
- Explainable AI (XAI) dashboards for clinicians; patient-facing mobile app for self-management

Target: HORIZON-HLTH-2027-02-DISEASE-01

Budget: ~€8M | Duration: 60 months | Consortium: 8–10 partners



AI-enabled Early Prediction and Prevention of Type 2 Diabetes Complications in Military and Civilian Populations



WP1 - Clinical Data Collection

Longitudinal cohort of 3,000 T2D patients (military + civilian).
CGM, wearables, EHR linkage, biobank samples.

Unique asset: access to military and civilian populations within one healthcare system

Led by: 4WSK Wrocław

WP2 - AI Model Development

Federated learning across sites.
Explainable AI (XAI) risk scores.
Internal and external validation across participating sites

Need: AI/ML research group

WP3 - Clinical Trial & Validation

Multicentre clinical validation study across EU sites. Primary endpoint: reduction in complication incidence at 24 months.

Need: Clinical partners (3+ EU sites)

What 4WSK Brings

- 60,000+ patients/year
- military + civilian cohort
- Clinical Research Support

Partners We Are Looking For

- University hospitals with strong diabetology/endocrinology research programmes: (Finland, Germany, Netherlands, Italy, Portugal, Spain)
- AI/ML research institutes with federated learning and health data expertise
- MedTech / digital health SME for wearable platform and patient app development
- Health economics /clinical partners, AI/ML partners, health economics partners, SME
- Military medical institutions (defence research ecosystem) for cross-sector validation

Next Steps

1. Expression of Interest to 4WSK by Q3 2026
2. Consortium kick-off and concept note (Stage 1 submission: early 2027)
3. Concept note development
4. Horizon Europe submission

Contact: szpital@4wsk.pl | sekretariat@4wsk.pl



Industry
Contact
Point
Medical
Technologies
and Health



Industry
Contact
Point
Digital
Transformation



Industry
Contact
Point
Industry 4.0

LOWER
SILESIA



DOLNY
SLASK



Ministry of Science and Higher Education
Republic of Poland

Co-financed by the project of Minister of Science and Higher Education "Industry Contact Points for the Horizon Europe Research and Innovation Framework Programme"



Industry
Contact
Point
Medical
Technologies
and Health



Industry
Contact
Point
Digital
Transformation



Industry
Contact
Point
Industry 4.0

LOWER
SILESIA



DOLNY
ŚLĄSK

Thank you

Digital hospital

Please wait