

# Verlab

GROUP



[www.verlab.ba](http://www.verlab.ba)

# Who are we?

We are a business with specialized expertise in independent third-party verification and management of medical devices.



Medical Device Inspection Laboratory



Verlab Research Institute for Biomedical Engineering, Medical Devices and Artificial Intelligence



**its4Health**  
Transforming healthcare

Digital Innovation Hub





# Our story

Verlab was founded in 2014 with a goal of enhancing the effectiveness of patient diagnosis and treatment while simultaneously reducing healthcare management expenses.

Our Founder and CEO Almir Badnjević was inspired to start this company by his desire to improve patient care by integrating managerial and engineering expertise with healthcare technology.

At Verlab, we assist government and private organizations improve their processes of medical device management that maximize patient safety.

***“Healthcare customers will never outgrow the need for a better service”***



prof. dr. Almir Badnjević

- Ordinary Member of European Academy of science and Arts
- Professor at University of Sarajevo
- Board member at IFMBE Clinical Engineering Division
- IEEE EMBS Distinguished Lecturer
- Editorial in Chief of Technology and Healthcare Journal, ISO Press



# Medical Device Inspection Laboratory

Medical Device Inspection Laboratory provides services of verification of medical devices with measuring function that are part of the legal metrology in accordance with the Law on Metrology in Bosnia and Herzegovina. Medical devices with measuring function for which verification/inspection activities are performed are: *ECG devices, defibrillators, patient monitors, incubators for pediatric and neonatal patients, anesthesia machines, mechanical ventilators, infusomats and perfusors, therapeutic ultrasound devices, dialysis machines and blood pressure monitors.*

- Accredited according to BAS/EN/ISO/IEC 17020
- Appointed by Institute of Metrology of Bosnia and Herzegovina



More than 300 private and public healthcare institutions.



More than 120.000 medical devices tested.



More than 100+ technical and scientific publications.



Unique database with medical device safety & performance measurements



**ECRI**

Verlab is the official partner of ECRI Institute for the region of 8 countries: Bosnia and Herzegovina, Croatia, Serbia, Montenegro, Albania, Slovenia, Kosovo, Republic of North Macedonia.

# Third-party Independent Inspection of medical Devices

## IDEATION & SCIENTIFIC BREAKTHROUGH

The evidence-based concept we have developed focuses on three key pillars.

MEDICAL DEVICES  
STANDARDIZATION  
METROLOGY







# INSTITUTE Verlab Research Institute for Biomedical Engineering, Medical Devices and Artificial Intelligence

At Verlab Institute we generate, apply, and disseminate research findings through a global ecosystem of forward-looking stakeholders and build capacity by empowering the next generation of technology-enabled professionals.

Research & Innovation

Support & Coordination



**NGO AFFILIATE**  
Bosnia and Herzegovina  
Medical and Biological  
Engineering Society  
(DMBIUBIH)

The Institute has ongoing research and development projects in three areas:

HEALTH

ENVIRONMENT

DIGITAL

## Verlab Intelligence Network:



# Our story

In today's world, technology has become an integral part of nearly all processes. Science and technology are closely intertwined and play a vital role in the development, progress, and well-being of modern society. The need for knowledge and understanding remains ever-present, as they are crucial for human progress.



prof. dr.  
Lejla Gurbeta Pokvić,  
Director

***“Every bold idea, at first, seems like madness...”***

Johann Wolfgang von Goethe

Being the first private research institute in Bosnia and Herzegovina, we are dedicated to conducting multidisciplinary research that is driven by the needs of the growing population, with a focus on biomedical engineering, medical devices, and artificial intelligence. Our ultimate objective is to provide novel solutions that promote prosperity and sustainability for a diverse ecosystem that includes academia, government, industry, healthcare communities, and civil society.

**Shared vision is a shared heart, a shared leadership, and a shared organization.**

Verlab Institute is the property of all of its employees, associates, partners, volunteers – all those who see at Institute the opportunity to accomplish their personal development and aspirations!

**Lead. Inspire. Deliver.**

# Digital Innovation Hub

Coordinated group of 4 entities with a non-profit objective and the dual mission of facilitating green and digital transition of the country's healthcare sector.

## Researchers and innovators

Research institutes

High Schools

StartUps

Universities

Investors

IT companies

Pharma companies

Public healthcare institutions

Private healthcare institutions

Laboratories  
Dentists  
Pharmacies

Patient associations

Ministries of health

The agency for medicinal products and medical devices

THE HUB





# DIH PROVIDES

01



## Digital Skills

Includes hosting or providing training courses, training sessions or other ways to provide digital and non-digital skills.

02



## Test before invest

Experiment with advanced digital technologies – software and hardware – to understand new business opportunities, investments, including demonstration and piloting facilities



03

## Access to finance

This functionality includes providing information on various financing mechanisms, facilitating access to investors.



04

## Innovation ecosystem and networking

Aligned to global standards and strategic processes in the field of digitization and focused on the principles of transparency and collaboration.

# Verlab Group - SERVICES

You might be surprised to learn how critically the management of medical devices can affect the relationship between patient safety and organizational performance. So, how are the organizations performing?

**Are patients being treated with safe and reliable medical devices?**

**Are the measurement from medical devices the same everywhere?**



**Do you use and achieve effective, evidence-based maintenance of medical devices?**

**Are your diagnosis and treatments accurate, piano and effective?**

As a pioneering company in the industry, with globally recognized experts, we can assist you in answering all of these questions with a resounding YES.





## Needs assessment and analysis

### • Gap identification // Policy analysis & Development

Our approach includes identifying the necessary criteria for engagement, which encompasses the needs of both private and public organizations. We focus on delivering a practical and evidence-based framework for the management of medical devices

### • Implementation of the model for Third party Independent Inspection of medical devices

At our organization, we recognize that each implementation effort is unique, with its own set of challenges, opportunities, and constraints. That's why we take a customized approach to implementation planning, working closely with our clients to design an implementation model that is tailored to their specific situation and available resources.

## Needs driven & mission oriented research

In collaboration with partners (SMEs and other organizations from the public and private sector) we identify real-world problems and perform research to deliver practical and actionable results that can be applied to the real-world.

• **Scientific & research facilities** enable us to experiment with advanced digital technologies, understand new opportunities and pilot innovative project.

• Our **Innovation ecosystem** brings together a diverse community of researchers, entrepreneurs, industry leaders, and other stakeholders who are passionate about advancing the frontiers of healthcare technology. Through regular networking events and other activities, we provide opportunities for community to connect with one another, share ideas, and build meaningful collaborations.





### Vocational education & training

Our programs are designed to equip participants with the practical knowledge and hands-on experience needed to excel in today's rapidly evolving healthcare landscape. The programs cover a range of topics, including digital skills such as data analysis, artificial intelligence, and machine learning. We also provide specialized training in medical technology.



### Consulting

Our team of researchers and experts offer consultancy services to a broad range of clients, including academic institutions, businesses, government agencies, and non-profit organizations. We provide support and guidance on a variety of topics that are of interest to our clients.













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