

The logo for Verlab Group. It features a stylized 'V' symbol on the left, followed by the word 'erlab' in a large, dark green, sans-serif font. Below 'erlab' is the word 'GROUP' in a smaller, bold, dark green, sans-serif font.

# Verlab

GROUP

Integrity. Excellence. Innovation.

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# Who are we?

We are a business with specialized expertise in independent, evidence-based medical device inspection/verification and management.

## Vision

The inspection/verification and evidence-based management of medical devices for post-market surveillance purposes is uniform across all countries.

## Mission

To implement the independent, evidence-based inspection and management of medical devices with the highest standards and assist organizations globally adopting framework in their practice.

*Trust through evidence.*



## OUR STORY

Verlab was founded in 2014, and we have accomplished so much over the years. Ensuring safe medical devices and promoting evidence-based concept for medical device management has always been our goal.

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.**

**The numbers stand behind us.**



More than 30 000 medical devices tested.



More than 600 private and public healthcare institutions.



More than 200 technical and scientific publications.

## Core Values

Verlab's culture is built on its **five core values**: impartiality, objectivity, integrity, excellence, and innovation. **These principles are more than just words to us.** They guide how we collaborate to advance the quality of care in the healthcare sector.



IMPARTIALITY



OBJECTIVITY



INTEGRITY



EXCELLENCE



INNOVATION

# Organisation

## TECHNICAL & SCIENTIFIC



There are three organizational units within Verlab, an appointed **Medical Device Inspection laboratory** and the **Verlab Research Institute**.



## Medical Device Inspection Laboratory

Verlab **Medical Device Inspection Laboratory** provides services of verification / inspection of Medical Devices with measuring function as an accredited inspection/control body that ensures the safety and reliability of medical devices during post-market surveillance. Our organization is ISO 17020 accredited. Our developed methodology presents a unique approach that emphasizes a **device-centered perspective and maximizes the utilization of data**.



## Verlab Research Institute

Verlab **Research Institute for Biomedical Engineering, Medical Devices, and Artificial Intelligence** provides services of research & innovation in the field of health, environment, and digital technologies. The institute's experts and international network of associates support its collaborative platform where stakeholders from academia, industry and government engage together to find practical solutions and products to contribute to sustainable development goals.



## Digital Innovation Hub

The its4Health digital innovation hub is a one-stop shop with the dual mission of facilitating the green and digital transition of the country's healthcare sector and enhancing the research and innovation capabilities of Bosnia and Herzegovina's health-tech industry. Harnessing the expertise of the partners, the Hub can provide transformative support that yields immediate and tangible benefits to the health and tech sectors.

# Third-party Independent Inspection

OF MEDICAL DEVICES

## IDEATION & SCIENTIFIC BREAKTHROUGH

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

### Medical devices.



Prioritizing the functionality and efficiency of individual devices.

### Standardization.



Increased accuracy and performance of individual devices.

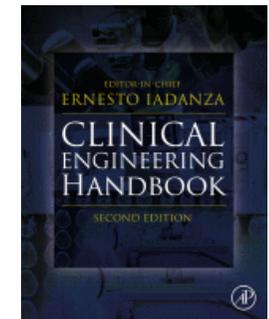
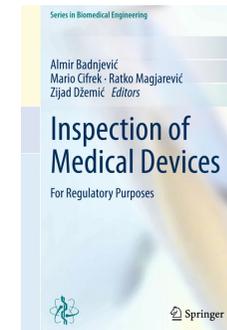
### Metrology.



Centralized, evidence-based maintenance and management of medical devices.



Organizations achieve greater efficiency, innovation, and competitive advantage in today's rapidly evolving digital landscape.



The scientific concept is published in a book by **Springer and Elsevier.**

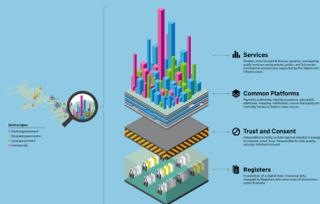
*Novel methodology* of independent inspection/verification of medical devices is published in various scientific publications.

The most comprehensive one can be found in the **editorial of the journal Technology & Healthcare by ISO Press.**

*Taking a **device-centered approach** to data and AI utilization, organizations can achieve greater scalability, flexibility, and agility in their technology systems.*

# eLab

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



**WHAT IS AN eLab?** The eLab evidence-based digital tool that enables organisations to manage all aspects of their medical device management and inspection compliant to methods developed by EN ISO 17000 series.

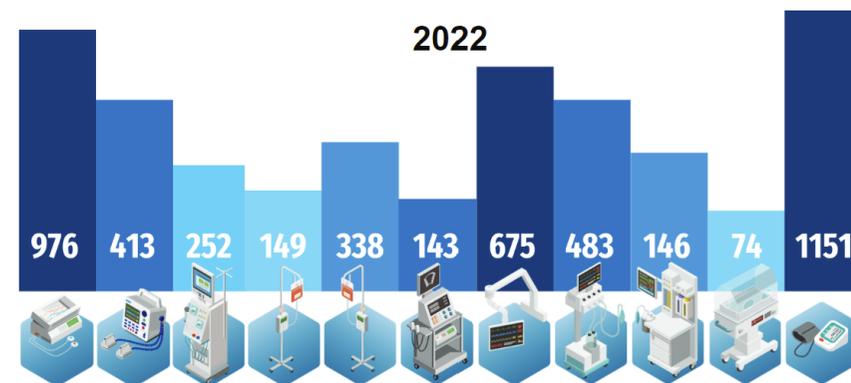
eLab enables:

- **Increase level of digitalization of medical device post-market surveillance process;** *Unique platform offers the possibility to analyze the trends in collected data and to perform evidence-based benchmarking for MD surveillance and safety data; Decreases time of device downtime;*
- **Harmonize methods for medical devices quality assurance;** *Introducing standards in medical device PMS and maintenance data collection and management;*
- **Decrease costs in the procurement and maintenance of medical equipment.** *Artificial intelligence predictions based on collected data on medical device performances.*

This approach is also applicable for low and middle income countries who face the lack of health technology assessment agencies as recognized by the report of WHO (Global Atlas of Medical Devices).



**REDUCE. REUSE. RECYCLE.**



## RESEARCH & INNOVATION

The digital platform that leverages artificial intelligence (AI) technology to streamline and significantly improve the management, maintenance, and utilization of medical devices (MD) used in healthcare institutions.

The previously gathered information is combined with real-time information and AI algorithm used to predict the expected MD performance, ensuring medical devices' effective and optimal use as well as continued high level of service to patients.

# Our 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?

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1. Are patients being treated with safe and reliable medical devices?
2. Are you achieving effective post-market surveillance?
3. Do you use evidence-based, standardized maintenance of your medical devices?

**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. Our dedication to delivering exceptional services ensures that you receive nothing but the best quality.**



The organization will never outgrow the need for **a safe and reliable service.**



# Our Services

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*Lead. Inspire. Deliver.*

**Interested in introducing a framework within your organization. We can help you in:**

- Identification and needs analysis
- Proposing an implementation model, including regulation, by-laws, guidelines, and technical procedures
- Consulting during the implementation of the model
- Providing consultancy for the preparation of international accreditation, including liaising with regulatory authorities
- Providing on-site and virtual training for management and administrative staff
- Providing on-site and virtual training for professional staff
- Conducting ad hoc implementation monitoring during the first year of operation
- Advocating for introduction to international networks of clinical engineering.
- Development of measurement database
- Implementation of a digital platform for monitoring of independent inspection and management of medical devices
- Research & Innovation - Application of AI for the development of predictive medical device management classifiers





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