

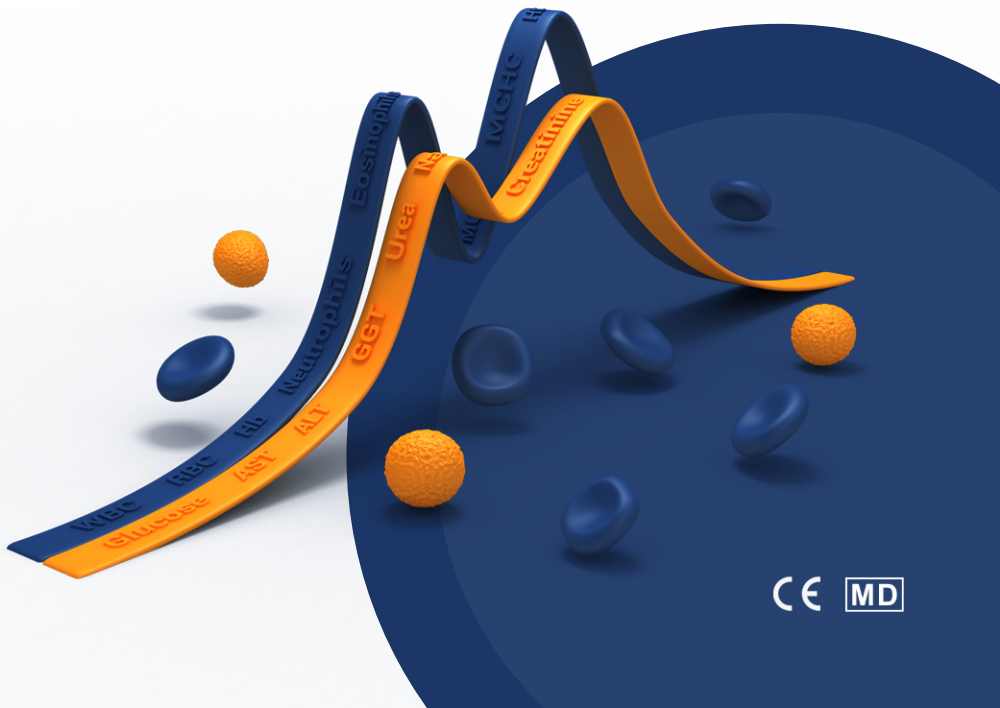
Empowering differential diagnosis

SBAS Software - where clinical expertise meets intelligent decision support.

Smart Blood Analytics Swiss Software (SBAS Software) transforms routine blood test results into structured clinical insight.

Using validated artificial intelligence models, SBAS Software supports physicians in expanding and prioritizing differential diagnoses based on a patient's blood parameters, age, and biological sex.

By analyzing complex patterns across laboratory data, SBAS Software helps reveal clinically relevant signals, supporting faster, more confident decision-making.



SBAS Software

Clinically grounded.

Scientifically proven.

Strategically valuable.



What is SBAS Software?

SBAS Software is an MDR-certified Clinical Decision Support System (CDSS) that interprets routine blood test results using validated artificial intelligence models.

By evaluating complex relationships between blood parameters, age, and biological sex, SBAS Software supports physicians by providing a ranked list of the ten most probable diseases or medical conditions.

SBAS Software does not replace medical judgment. It supports it by enabling faster orientation, improved diagnostic confidence, and more structured clinical pathways.

Augmented intelligence in clinical practice

SBAS Software follows the principle of **augmented intelligence**:

- AI supports, structures, and enhances clinical reasoning
- Results are transparent, explainable, and clinically interpretable
- Physicians remain fully responsible for diagnosis and treatment

This approach ensures trust, safety, and real-world usability.

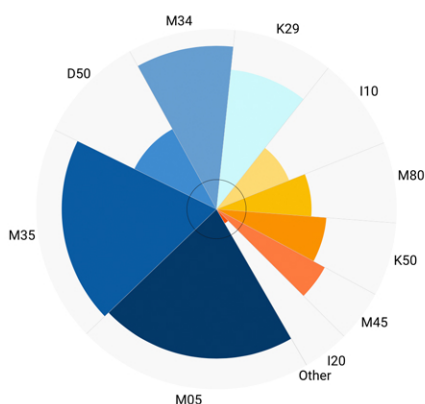
From laboratory data to clinical insight

Routine blood tests contain high-density clinical information. SBAS Software transforms this data into meaningful diagnostic support by:

- Simultaneously interpreting multiple parameters and their ratios
- Detecting subtle, clinically relevant patterns
- Structuring results into a clear, prioritized list of diseases or medical conditions

This allows physicians to move from raw data to informed decisions more efficiently.

	ICD	Ranking Factor	Parameter Evidence	Description
▼	M05	21.17	4.05	Seropositive rheumatoid arthritis
▼	M35	19.42	4.23	Other systemic involvement of connective tissue
▼	D50	9.74	2.09	Iron deficiency anaemia
▼	M34	9.64	4.52	Systemic sclerosis
▼	K29	9.01	3.74	Gastritis and duodenitis
▼	I10	8.34	1.64	Essential (primary) hypertension
▼	M80	7.24	2.21	Osteoporosis with pathological fracture
▼	K50	6.62	2.72	Crohn's disease [regional enteritis]
▼	M45	4.63	3.15	Ankylosing spondylitis
▼	I20	4.19	-0.81	Angina pectoris



SBAS Software presents results in a format designed for clinical use:

- Ranked list of the ten most likely diseases or medical conditions
- Ranking factors indicating relative likelihood
- Parameter evidence explaining how laboratory values influence each result
- Intuitive visual representation combining probability and evidential strength

This transparency supports both clinical reasoning and interdisciplinary communication.

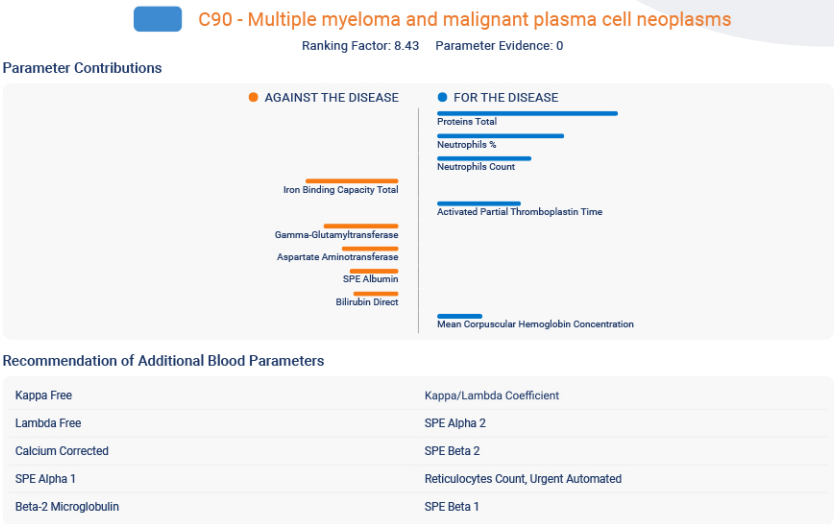
Additional decision-support features

Parameter contribution

Highlights which blood parameters most strongly influence each suggested disease, supporting a deeper understanding and targeted diagnostics.

Recommender system

Identifies clinically relevant, unmeasured blood parameters that may refine diagnostic pathways, supporting personalized and cost-effective testing strategies.



Clinical and organizational value

For physicians

- Faster diagnostic orientation in complex cases
- Reduced cognitive burden and diagnostic uncertainty
- Support for safer, more confident decision-making

For healthcare organizations

- More efficient use of existing laboratory data
- Potential reduction of unnecessary diagnostic procedures
- Support for standardized, high-quality clinical workflows
- Improved patient outcomes and resource utilization

Intended use and medical scope

SBAS Software is intended for use by trained physicians and medical professionals under physician supervision in adult, non-pregnant patients.

It supports differential diagnosis across multiple medical specialties, including:



Internal medicine



Nephrology



Rheumatology



Hematology



Pulmonology



Cardiology



Gastroenterology



Toxicology



Endocrinology



Neurology

Safety, compliance, and trust

SBAS Software is developed and maintained in accordance with the EU Medical Device Regulation (MDR).

Key safety principles:

- Clinical decision support only
- No autonomous diagnosis
- Not intended for screening or emergency use
- Locked, validated models with controlled updates
- Complete transparency and physician oversight

Responsible AI and patient safety are integral to SBAS Software design.



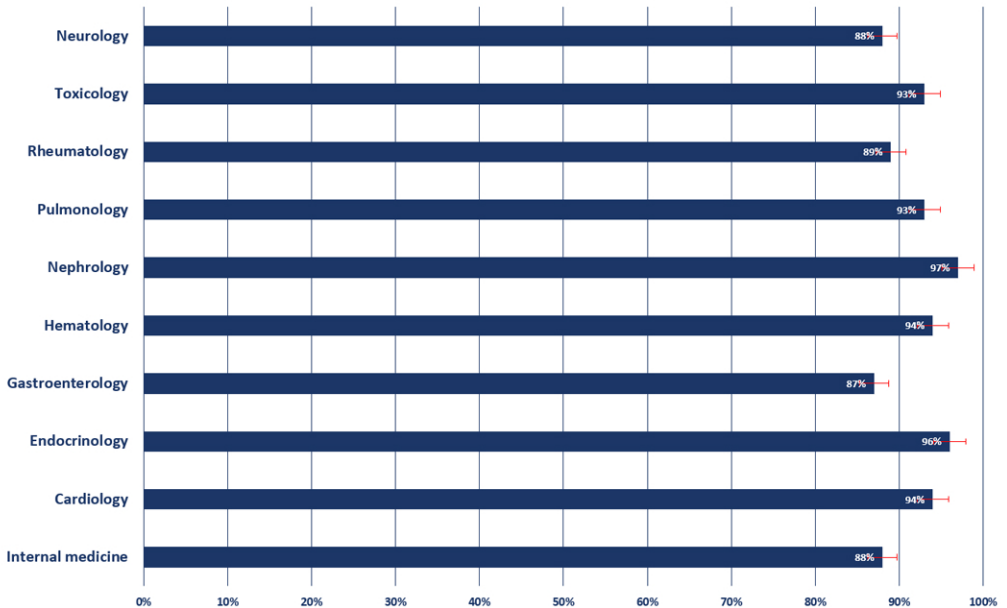
Scientific validation

SBAS Software is built on peer-reviewed scientific research published in internationally recognized medical journals.

Its models are trained and validated on large, clinically diagnosed datasets, demonstrating robust, reproducible performance across medical domains.

Models Accuracy

The accuracy of the SBAS Software for a specific model varies from 85 % for the Internal medicine model which covers all fields of internal medicine to 96 % for specific Endocrinology and Nephrology models.



Clinical & Strategic Benefits



**More Accurate and
Quicker Diagnostic
Decisions**



**Minimized Diagnostic
Errors**



**Improved Patient Care
and Outcomes**



**Certified Medical
Device**



Multilanguage Support



**Scalability for Any
Practice**

About Smart Blood Analytics Swiss SA

Smart Blood Analytics Swiss SA is a Swiss-based company founded in 2016 by experts in medicine, laboratory science, and artificial intelligence. The company develops clinically validated, regulation-ready AI solutions that support physicians while delivering measurable value to healthcare systems.

Contact

Smart Blood Analytics Swiss SA

Höschgasse 25, CH-8008 ZÜRICH

www.smartbloodanalytics.com

info@sba-swiss.com

