

mySmartBlood

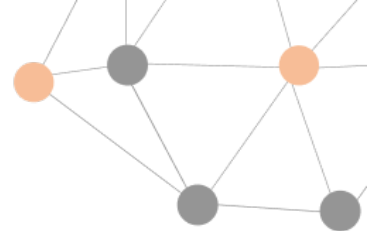
INSTRUCTIONS FOR USE



Smart Blood Analytics Swiss SA
Address: Höschgasse 25, CH-8008 ZÜRICH,
Switzerland
Email: info@sba-swiss.com

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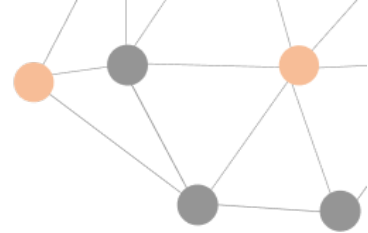


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1 INTRODUCTION

Smart Blood Analytics Swiss SA specializes in providing an artificial intelligence machine learning model that enables users to quickly and accurately gain information about most likely diseases, based on the patient's set of data. Data contains biological sex, age and blood test results, which have been performed in an external medical laboratory independent from mySmartBlood.

The mySmartBlood is specifically developed for the following fields of internal medicine:

- Toxicology
- Endocrinology
- Gastroenterology
- Cardiology
- Hematology
- Nephrology
- Pulmonology
- Rheumatology

1.1 Purpose

The purpose of this document is to provide information for the users of the mySmartBlood mobile application, including general application information, instructions for use, warnings and other data.

1.2 Scope

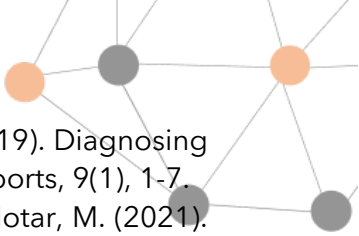
This document covers the mySmartBlood mobile application manufactured by Smart Blood Analytics Swiss SA.

1.3 Audience

This document is intended for users of the mySmartBlood mobile application.

1.4 References

- [1] EN ISO 13485:2016+A11:2021 Medical devices – Quality management systems – Requirements for regulatory purposes.
- [2] EN ISO 14971:2019+A11:2021 Medical devices – Application of risk management to medical devices.
- [3] EN ISO 15223-1:2021+AMD 1:2025 Medical devices – Medical devices – Symbols to be used with information to be supplied by the manufacturer – Part 1: General requirements.
- [4] IEC 62304:2006+AMD 1:2015 Medical device software – Software life cycle process – Amendment 1.
- [5] IEC 62366-1:2015+AMD 1:2020 Medical devices – Part 1: Application of usability engineering to medical devices.
- [6] Gunčar, G., Kukar, M., Notar, M., Brvar, M., Černelč, P., Notar, M., & Notar, M. (2018). An application of machine learning to haematological diagnosis. Scientific reports, 8(1), 1-12.

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- [7] Podnar, S., Kukar, M., Gunčar, G., Notar, M., Gošnjak, N., & Notar, M. (2019). Diagnosing brain tumours by routine blood tests using machine learning. Scientific reports, 9(1), 1-7.
- [8] Kukar, M., Gunčar, G., Vovko, T., Podnar, S., Černelč, P., Brvar, M., ... & Notar, M. (2021). COVID-19 diagnosis by routine blood tests using machine learning. Scientific reports, 11(1), 1-9.

1.5 Abbreviations

Acronym	Meaning
SBAS	Smart Blood Analytics Swiss SA
IFU	Instructions For Use
APP	Application
ICD-10	International Classification of Disease 10th Revision
UDI	Unique Device Identifier
UDI-DI	UDI device identifier
UDI-PI	UDI production identifier

2 SYMBOLS

The different symbols used in this document are intended to warn and inform the user of certain risks and dangers that could occur when using mySmartBlood.

Please read the Instructions For Use carefully before using mySmartBlood.

SYMBOL	DESCRIPTION
	Basic symbol for danger
	Important
	Date of manufacture
	Manufacturer
	Consult Instructions for use
	Unique Device Identifier
	Authorized representative in the European Community/European Union

3 GENERAL INFORMATION

Application Name: **mySmartBlood**

Version: **3**

Basic UDI-DI: **7649996089mySB6G**

3.1 Manufacturer



Smart Blood Analytics Swiss SA

Address: Höschgasse 25, CH-8008 ZÜRICH, Switzerland

Email: info@sba-swiss.com



Smart Blood Analytics d.o.o.

Address: Župančičeva ulica 18, 1000 Ljubljana, Slovenia

Email: info@sba-swiss.com

3.1.1 Application Questions and Technical Support

For additional information, technical support or reporting of incidents pertaining to mySmartBlood, please contact us at support@mysmartblood.com.

3.2 Intended Purpose

The mySmartBlood application is a clinical decision support software (CDSS) mobile application intended to provide information to symptomatic non-professional users and their physician concerning medical conditions or groups of diseases based on the user's set of data. The mySmartBlood application explicitly prohibits non-professional users from making any decisions based solely on the application outputs, emphasizing that a physician's judgment is required. Data contains biological sex, age, and blood test results from tests which have been performed in an independent external medical laboratory.

mySmartBlood makes suggestions of the most likely groups of diseases, including the fields of internal medicine. It is used as a mobile application for iOS and Android mobile devices.

3.2.1 Rationale and Further Explanation

Users must input their blood test results, obtained independently from an external medical laboratory. These results must include at least 30 blood parameters from the list provided in Annex 1 of this Instructions for Use, along with their age and biological sex. Additionally, users are prompted to enter their symptoms, which their physician will consider when making the final diagnosis.

The user data is entered into the mySmartBlood application, and the machine learning model interpretation is run.

The result of the analysis, presented in the mySmartBlood report, shows a maximum of five of the most likely groups of diseases. The International Statistical Classification of Diseases and Related

Health Problems (ICD) group codes are used and within each group, specific diseases and the parameters that contributed to the result are stated.



- **mySmartBlood is not a diagnostic medical device and does not present a final diagnosis. However, it provides a list of most likely groups of diseases.**
- **The user is not allowed and should not make any decisions based only on the results obtained by mySmartBlood and are not intended to be prompted or encouraged to draw any therapeutic conclusions, without consulting a physician.**
- **The information provided by mySmartBlood can never replace or overrule any medical advice, diagnosis or treatment.**
- **The final diagnosis shall always be determined by the responsible physician based on all available physical findings, the user's medical history, symptoms and results of other diagnostic tests.**
- **The interpretation provided by mySmartBlood is only an information of a general nature and to guide the user to consult the appropriate physician.**

3.3 Target User Profiles

The mySmartBlood application is intended to be used by symptomatic adult users (older than 18 years old), both male and non-pregnant female, as well as their physicians, who are responsible for reviewing and interpreting the blood test results.

3.4 Intended Use Environment

mySmartBlood can be used anytime and anywhere as long as it is used on a compatible, functioning mobile device with sufficient battery and with the proper Internet connection. Without the Internet connection, you are not able to use mySmartBlood application.

The minimum system requirements for running the mySmartBlood mobile device application is either of:

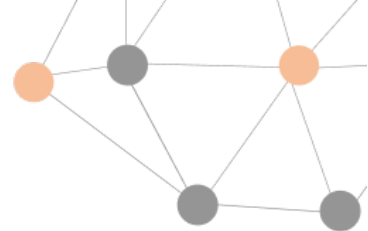
- iOS operating system version iOS 15 or later
- Android operating system version Android 10 or later.

3.5 Scope of Use

The use of mySmartBlood is intended for interpreting blood results of adult users (older than 18 years old), both female (non-pregnant) and male, with acute and/or chronic conditions in the following fields of internal medicine:

- Toxicology
- Endocrinology
- Gastroenterology
- Cardiology
- Hematology
- Nephrology

- Pulmonology
- Rheumatology



The mySmartBlood application can only be used if biological sex, age, and a sufficient number of blood test results are available. The application makes suggestions of the most likely groups of diseases, including the fields of internal medicine. On this basis, the physician may decide to perform additional tests and combine them with the available patient's physical findings, medical history, and symptoms to confirm a specific diagnosis.

3.6 Limitations on Use

The mySmartBlood application is not suitable for use in the following situations:

- users below the age of 18,
- emergency situations in general, e.g.:
 - signs of a heart attack (severe/heavy/crushing chest pain...),
 - signs of a stroke (facial weakness, slurred speech, inability to hold both arms up...),
 - severe breathing problems,
 - any other untoward sign or symptom that may be of urgent nature or necessitate urgent or emergency care,
- Users who are pregnant.

3.7 Special Warnings and Precautions for Use



- **All groups of diseases generated by mySmartBlood can never replace any medical advice, diagnosis or treatment. You shall never disregard a physician's advice or cancel an appointment with a physician because you are relying only on information provided by mySmartBlood.**
- **In case of a medical emergency, a physician or the emergency services shall be contacted immediately.**
- **You assume full risk and responsibility for the use of information obtained from or through mySmartBlood.**
- **mySmartBlood was clinically evaluated on data of Caucasian adult patients. The performance of the mySmartBlood, when used in an unevaluated population, can be lower than specified.**
- **Certain kinds of medication therapy can affect mySmartBlood outputs. When consulting with a physician, please inform them regarding this.**
- **mySmartBlood can only be used if biological sex, age, and a minimum of 30 blood parameters from the Blood Parameters List are available. All the available blood parameters are listed in Annex I.**
- **mySmartBlood can only predict the groups of diseases that are available in its database. All the available groups of diseases are listed in Annex II.**
- **You should use mySmartBlood only if you are showing any kind of medical symptoms.**
- **mySmartBlood is not designed for screening purposes.**



Please note that obtaining the blood test results might be subject to additional costs by your healthcare provider or local laboratory. mySmartBlood operates on a subscription-based payment model, available as a monthly or annual plan. A short free trial is provided, and subscriptions can be cancelled at any time. Note that exact prices can vary depending on your location, currency and exchange rates.



You should carefully read and make sure you understand the Instructions For Use (this document). You should also be able to operate smart mobile devices. The mySmartBlood application may not function properly if not installed on the recommended mobile operating system defined in section 4.1 of the Instructions For Use.

3.8 Operation Principle

mySmartBlood is a mobile application intended for users (lay persons) and their physicians. It provides a user interface that allows users to input their data and use the Internal medicine model of SBAS Software to determine the most likely groups of diseases based on individual data.

SBAS Software is a certified clinical decision support system (CDSS) that interprets blood test results and expands differential diagnostics. It provides a physician with a list of the ten most probable diseases or medical conditions based only on blood test results, biological sex, and age. SBAS Software does not make a final diagnosis and is not meant to be a substitute for physicians but instead aims to empower and guide them to make faster and more accurate decisions, resulting in better patient outcomes. The intended purpose of the SBAS Software is defined in the document SBAS-MD-IP – Intended Purpose. SBAS Software comprises 10 models, including the Internal Medicine model, which is utilized within the mySmartBlood app.

The Internal medicine model was developed using state-of-the-art supervised machine learning algorithms, leveraging a large, curated database of diagnosed patients from several fields of internal medicine. It uses a complex decision-making approach, which considers available parameters to suggest the most likely diseases. The model can detect even subtle correlated deviations in parameters that are significant for an accurate prediction. For the scientific description of our models see our peer-reviewed publications [6-8].

The Internal medicine model is locked and does not further learn or change its behavior after verification and validation. Further model improvements are handled as new releases of the product.

The mySmartBlood report consists of a maximum of five of the most likely groups of diseases. Within each group, the relevant diseases are listed, along with information about which parameters contributed the most towards predicting that specific group of diseases.

3.8.1 ICD-10 Classification

The groups of diseases or blocks predicted by the mySmartBlood are based on ICD-10 classification.

The purpose of the ICD is to permit systematic recording, analysis, interpretation and comparison of mortality and morbidity data collected in different countries or areas and at different times. The ICD is used to translate diagnoses of diseases and other health problems from words into an alphanumeric code, which permits easy storage, retrieval and analysis of the data. In practice, the



ICD has become the international standard diagnostic classification for all general epidemiological and many health-management purposes. These include analysis of the general health situation of population groups and monitoring of the incidence and prevalence of diseases and other health problems in relation to other variables, such as the characteristics and circumstances of the individuals affected¹.

The basic ICD is a single coded list of three-character categories, each of which can be further divided into up to 10 four-character subcategories. An alphanumeric code uses a letter in the first position and a number in the second, third and fourth positions. The fourth character follows a decimal point. Possible code numbers therefore range from A00.0 to Z99.9.

The ICD classification is firstly divided into 22 chapters. The first character of the ICD code is a letter, and each letter is associated with a particular chapter, except for the letter D, which is used in both Chapter II and Chapter III and the letter H, which is used in both Chapter VII and Chapter VIII. Four chapters (Chapters I, II, XIX and XX) use more than one letter in the first position of their codes. Each chapter contains sufficient three-character categories to cover its content. And these categories are our groups of diseases that are presented as a mySmartBlood result.

Since mySmartBlood predicts conditions in the field of internal medicine (Toxicology, Endocrinology, Gastroenterology, Cardiology, Hematology, Nephrology, Pulmonology, Rheumatology) specific classification chapters are not included, such as: VI Diseases of the nervous system, VII Diseases of the eye and adnexa, VIII Diseases of the ear and mastoid process, XV Pregnancy, childbirth and the puerperium, XVI Certain conditions originating in the perinatal period, XVIII Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified, XX External causes of morbidity and mortality, XXI Factors influencing health status and contact with health services, XXII Codes for special purposes.

All available groups of diseases are listed in [Annex II - GROUPS OF DISEASES](#).

3.8.2 UDI & Labelling

The label with the UDI marking is presented at the bottom of each generated mySmartBlood report. The UDI is a numerical code, which classifies the manufacturing unit of the device. The UDI-DI is the number of the manufacturer. The UDI-PI includes the date of manufacturing/date of release and software identification.

Additional labelling information is available in the application **Settings** under **Regulatory compliance**.

3.8.3 Identification of Life Expectancy

mySmartBlood is valid as long as the intended and specified mobile devices are used with the supported operating system. There are no other restrictions on life expectancy of the software. Only the valid version of the mySmartBlood application is available to the user.

¹ https://icd.who.int/browse10/Content/statichtml/ICD10Volume2_en_2019.pdf



3.9 Performance of the mySmartBlood Application

The performance of the algorithm was verified based on learning data using 10-fold cross validation. Diagnoses were encoded using the international classification of diseases ICD-10, by using a three-character code, e.g. D50. The following criteria were used to confirm the accuracy of the algorithm:

$$\text{Accuracy} = \frac{\text{number of correctly classified cases}}{\text{number of cases}}$$

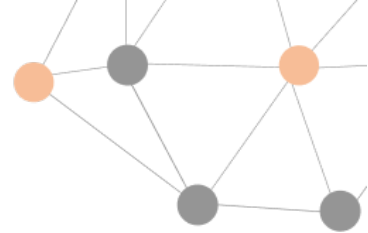
We report an arbitrary confidence interval of $\pm 2\%$ with our performance claims due to the human factor in determining the scope of the analysis and due to the uncertainty of the measurements.

The accuracy for the Internal medicine model is $89\% \pm 2\%$.

Performance of the mySmartBlood was clinically evaluated on a test set consisting of 38848 cases that were diagnosed by physicians with the help of blood test results as well as other diagnostical tools.

The test set was strictly reserved for performance evaluation purposes and has not been used for the development of the Internal medicine model. The test cases were chosen randomly but stratified, meaning that the prevalence of the diseases within the test set is roughly the same as in the dataset used for the development of Internal medicine model.

The results were characterized using diagnostic accuracy of a maximum of five of the most likely groups of diseases with the 95% binominal confidence intervals using the Agresti-Coull method. The accuracy is defined as a ratio between the number of correctly classified cases and the number of all cases in a test set. Correctly classified case is defined as a case for which a group of diseases that has been diagnosed by a physician is also present in the mySmartBlood report. In this way the accuracy represents how often the mySmartBlood report would indicate the correct group of diseases.



4 USER REQUIREMENTS

4.1 Digital Device

mySmartBlood can be used anytime and anywhere as long as it is used on a compatible, functioning mobile device with sufficient battery and with the proper Internet connection. Without the Internet connection you are not able to use mySmartBlood application.

The minimum system requirements for running the mySmartBlood mobile device application is either of:

- iOS operating system version iOS 15 or later
- Android operating system version Android 10 or later.

When an update of the mobile application is available, you will be notified via an in-app pop up. You must update the application in order to continue using it. It is recommended that you set your smartphone to update the app automatically, so that you always have the latest version. With each new release of mySmartBlood, the previous release becomes obsolete, and its records retention period begins.

You can update the mySmartBlood application in the App Store or on Google Play.

In case of the application malfunction, SBAS will evaluate the severity of the issue and prepare a problem resolution plan according to the SBAS procedures. Users will be informed about the malfunction itself as well as the SBAS problem resolution plan, which may result in the temporary inaccessibility of mySmartBlood and/or in the release of a new version of the application.



If mySmartBlood is not updated to the latest applicable version, you will not be able to use the mySmartBlood application.



SBAS performs proactive mySmartBlood monitoring. If you cannot find the application in the App Store or on Google Play, it has been preventively removed.

4.2 Data

To properly use mySmartBlood and get the report you will have to enter some of your personal information/data, such as name, email address, country of residence, date of birth (age), biological sex and a minimum of 30 blood parameters that are measured at a local medical laboratory. We care about your privacy. All data you share is confidential. For more information, please refer to our Privacy Policy.

4.3 Requirements for Blood Testing

Blood tests provided as input for mySmartBlood must be performed by a medical laboratory in compliance with applicable regulatory requirements. Ideally, all blood parameters used for generating a single mySmartBlood report should be measured at the same time or within a maximum interval of ten days.

5 HOW TO USE MYSMARTBLOOD

To use the mySmartBlood application as intended please follow the steps below:

1. Carefully read the Instructions For Use (this document).
2. Activate free trial and/or subscribe to mySmartBlood to unlock all app functionalities and unlimited report generation.
3. Prepare your blood test results – you must enter a minimum of 30 different blood parameters to generate mySmartBlood report.
4. Enter and submit your data in the mySmartBlood application.
5. Track and explore over 250+ blood parameters, including detailed descriptions for each.
6. Generate your mySmartBlood reports anytime – each report includes the most likely disease groups, explanations of contributing parameters, and related symptoms, signs, and comorbidities.
7. Consult with your physician.

5.1 Download the mySmartBlood Application

Download and install the mySmartBlood application from the App Store or Google Play. A suitable Internet connection is required to download mySmartBlood. Once the download is completed and the application is successfully installed, you can open the app.

5.2 Setting up Your Personal Account

When you open the mySmartBlood application for the first time, you will be presented with a walk-through as can be seen in Figure 1. Follow the steps to familiarize yourself with the application flow.

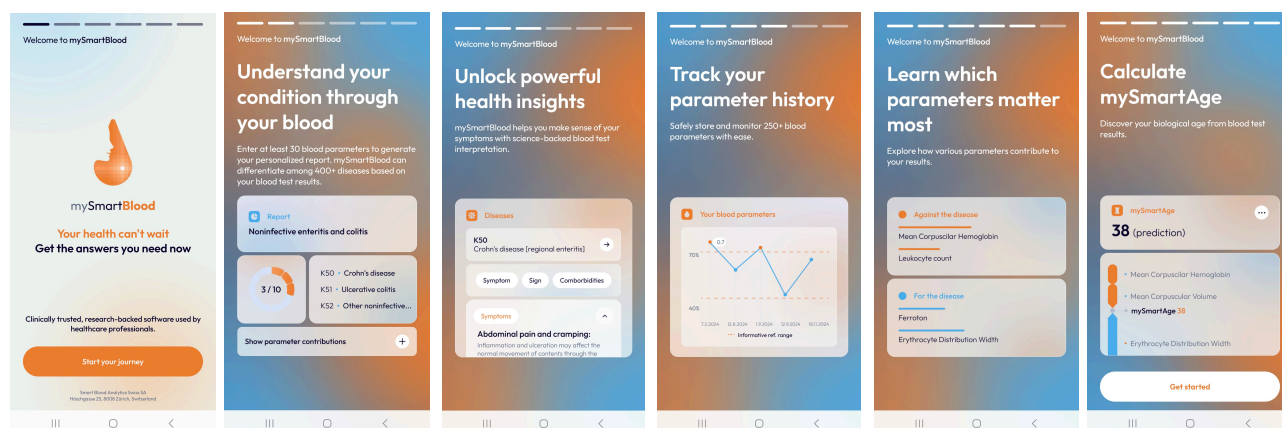


Figure 1: Walk-through for first-time users.

Sign into the app with your Apple, or Google account or with your email and create a new account. A confirmation email will be sent to the email provided and you can only proceed with using the app after the account has been confirmed (Figure 2). To successfully create your personal account, you must also enter your date of birth and biological sex. If necessary, you can

always later change your account information in **Settings**. A password-reset option is also available if needed for users signing into app with email (not with Google or Apple account).

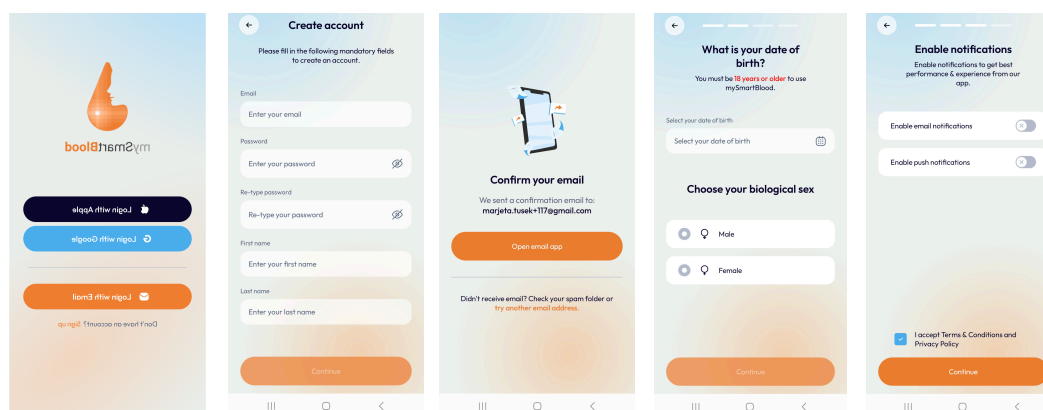


Figure 2: Steps to creating your personal account.



The mySmartBlood application is not intended for users under 18 years old and pregnant women.

5.3 Terms & Conditions, Privacy Policy

Upon the first login with the newly created account, you should read and agree to the “Terms & Conditions” and “Privacy Policy” before proceeding with the use of the mySmartBlood (Figure 2). If we update the “Terms & Conditions” and “Privacy Policy” will be updated, we will ask you to read and agree with them again.



After creating your personal account and before proceeding with use of mySmartBlood you will have to agree that you have been informed of and that you have read and understood the Instructions For Use and Disclaimer – Important information.

5.4 mySmartBlood Home Screen

When you log in to the mySmartBlood application, you'll land on the Home screen (Figure 3). A short introduction will be displayed, highlighting the key features and benefits of the app. This introduction remains visible until you complete your subscription—available as a monthly or annual plan with a free trial. Once subscribed, the full functionality of the app becomes available and you can start entering your blood test results, view all your previously generated reports, continue any partially completed entries, and access helpful resources like the Instructions for Use.

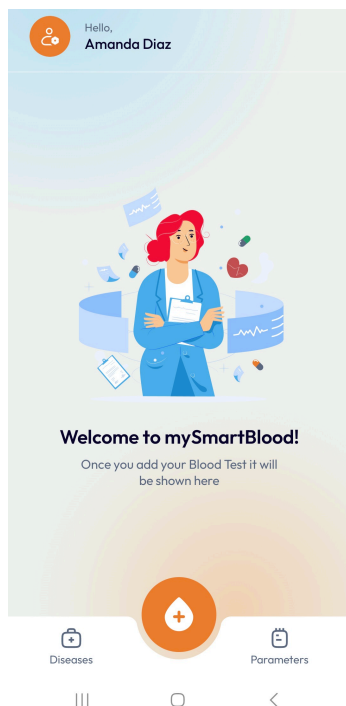


Figure 3a: Home screen - when no blood tests are entered and/or reports generated.

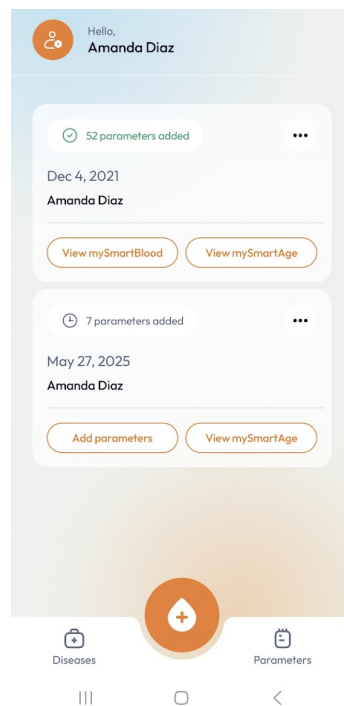


Figure 3b: Home screen - when blood tests are entered and/or reports generated.

In addition, the Home screen provides access to two key features:

5.4.1 Blood Parameter Tracking

To access blood parameter tracking, tap Parameters in the bottom left corner of the Home screen. Here, you can track all blood parameters you have entered over time. For each parameter, a graph is available showing how your values change across different test entries. By tapping on any data point, you can view the exact value and the date it was recorded. Each parameter also includes a brief description and a population-based distribution chart, allowing you to compare your values against the general population.

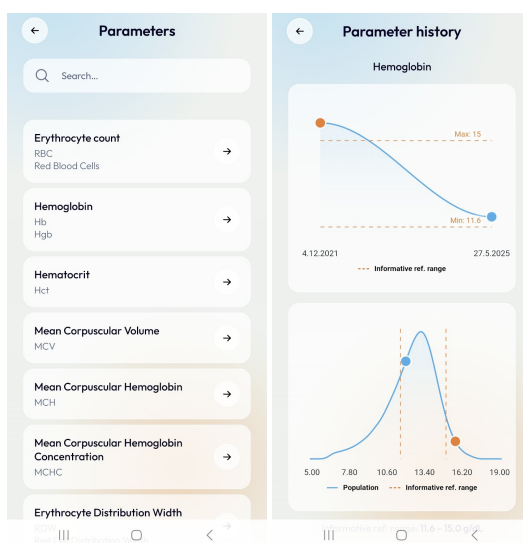


Figure 4: Blood parameter tracking

5.4.2 Disease Library

To explore disease-related information, tap the Diseases button located at the bottom right corner of the Home screen. A complete list of diseases included in mySmartBlood will be displayed. Tap on any specific disease to view detailed information, including typical symptoms, clinical signs, and common comorbidities. This functionality is designed to help you better understand potential conditions and support informed discussions with your physician.

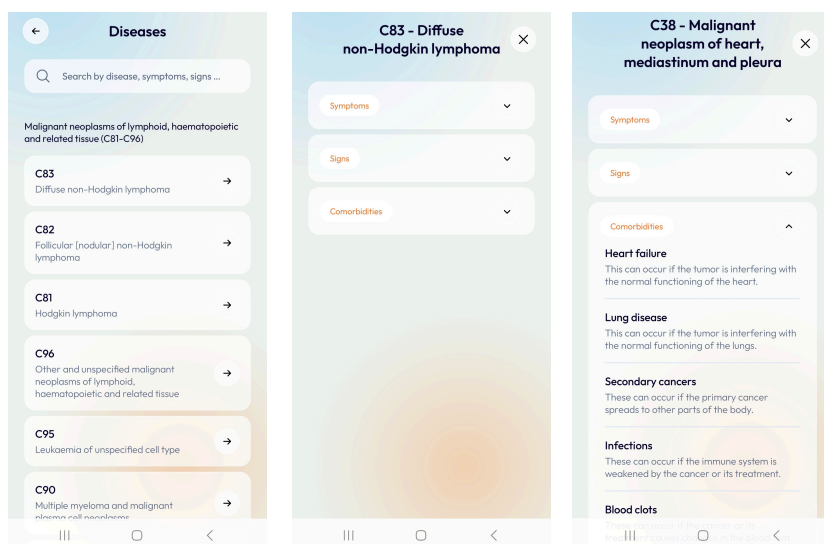


Figure 5: Disease Library

5.4.3 mySmartBlood Settings

To access **Settings**, you can tap the orange icon on the top left of the Home screen. Settings contains the following information:

Account settings:

- **Edit Personal Information:** You can update your personal information after you have set up your account.
- **Change Password:** You can change your password anytime you want. However, this feature is only available to users that sign into app with their email (not with a Google or Apple account).
- **Language selection:** You can change language of the mySmartBlood application.
- **Notification preferences:** You can disable push notifications.

Subscription:

- **Pricing & Report sample:** You can view the available subscription plans and see a sample of a mySmartblood report.

mySmartBlood:

- **Intro screens:** You can revisit the initial welcome and guidance slides that provide an overview of the app's features.
- **Recommended Blood Parameter List:** You can view and share a list of recommended blood parameters to measure. This list serves as guidance in case you are unsure which parameters to include or if your healthcare provider has not specified them.

- 
- **mySmartBlood Partner Laboratories:** Here you can view the list of medical laboratories which support QR code blood test upload. The name and the address of the laboratories are listed.

Legal:

- **Instructions For Use:** You can refer to the Instructions For Use (this document) whenever you need to.
- **Disclaimer:** This is the Disclaimer that you accepted prior to your first use of the mySmartBlood application.
- **Terms & Conditions:** These are the Terms & Conditions that you accepted prior to your first use of the mySmartBlood application.
- **Privacy Policy:** This is the Privacy Policy that you accepted prior to your first use of the mySmartBlood application.
- **Regulatory Compliance:** This lists our certificates and view how we comply with the applicable regulatory requirements.

Help Desk & Feedback:

- **Help Desk & Feedback:** You can view how to contact the mySmartBlood help center and how to communicate your feedback to us.

Logout or Delete account:

- **Delete Account:** You can delete your account and all your personal data at any time.
- **Log Out:** You can log out from the application.

5.4.4 Logging In and Out

To log in to mySmartBlood, enter your registered username and password or use your Google or Apple account.

To log out from the application, go to **Settings** and select **Log out**. The application will automatically log you out after 1 month.

5.4.5 Delete mySmartBlood Account

You may delete your mySmartBlood account at any time. This action will permanently remove all personal data, health history, and user preferences associated with your account. To proceed with deletion, open the **Settings** menu within the mySmartBlood app, select **Delete Account**, and follow the instructions displayed on your device. Please note that this action is irreversible—once your account is deleted, the data cannot be recovered.

Deleting your account does not automatically cancel any active subscriptions. If you have an active subscription, you must cancel it manually through your device.

5.5 Add New Blood Test

After logging in, the mySmartBlood Home screen is displayed (Figure 4). To begin adding a new blood test, tap the **+** icon. The "How would you like to enter your blood parameters?" screen will appear (Figure 4), offering three options:

- Enter blood parameters manually.
- Scan a QR code to upload your blood parameters directly from a supported laboratory report.
- Upload blood test from gallery or file.

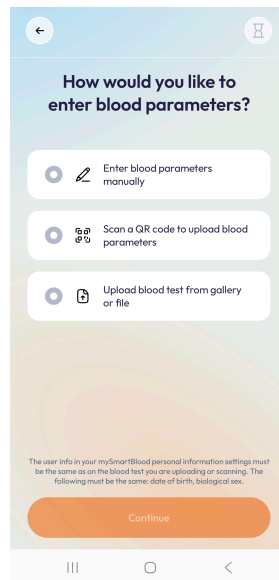


Figure 6: Options of entering your blood parameters.

5.5.1 Enter the blood parameters manually

Tap **Enter blood parameters manually** and follow the instructions (Figure 7). You have to enter at least 30 blood parameters, that were obtained from the local medical laboratory and select their units manually. Please pay particular attention that the entered values are correct.

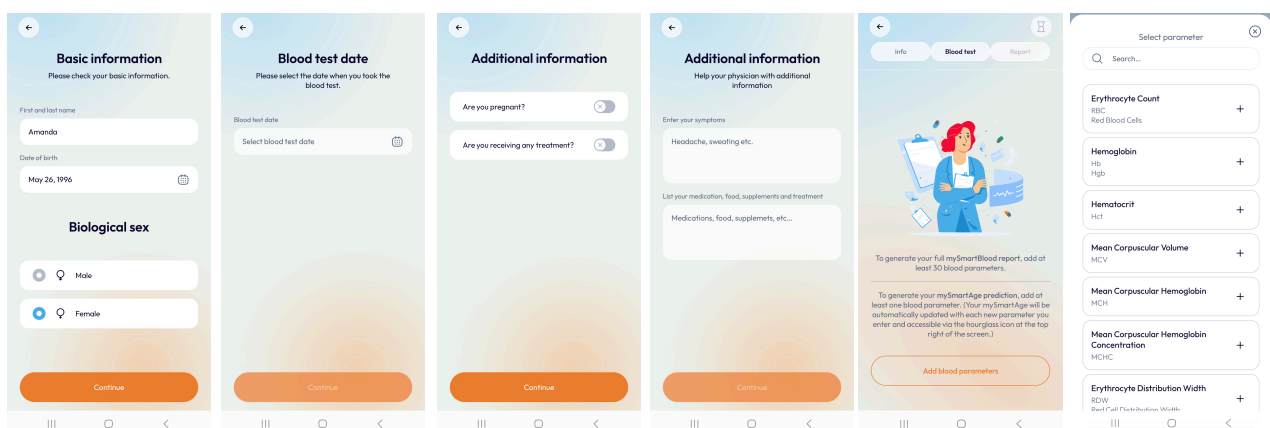


Figure 7: Manually adding a new blood test.



The measured blood parameters shall be in SI (International System of Units) or CONV (Conventional) units. If not, please perform the appropriate conversion.

If you are interrupted while entering the blood parameters, the measurements will be automatically stored in the mySmartBlood application, and you can continue later. You can also correct or delete the entered parameter values. Once the report is generated this is no longer possible.



If the entered blood parameter value deviates too much from the Informative reference range mySmartBlood will ask you to additionally confirm the entered value.

After successfully submitting all required parameters, tap **Create mySmartBlood report** to submit the results for analysis.

5.5.2 Scan QR code to upload blood parameters

Tap **Scan the QR code to upload the blood parameters** and follow the instructions (Figure 8). The QR code is available on your blood test report that was obtained independently in one of the mySmartBlood Partner Laboratories. The list of all mySmartBlood Partner Laboratories that support QR code blood parameter upload is available under **Settings**.

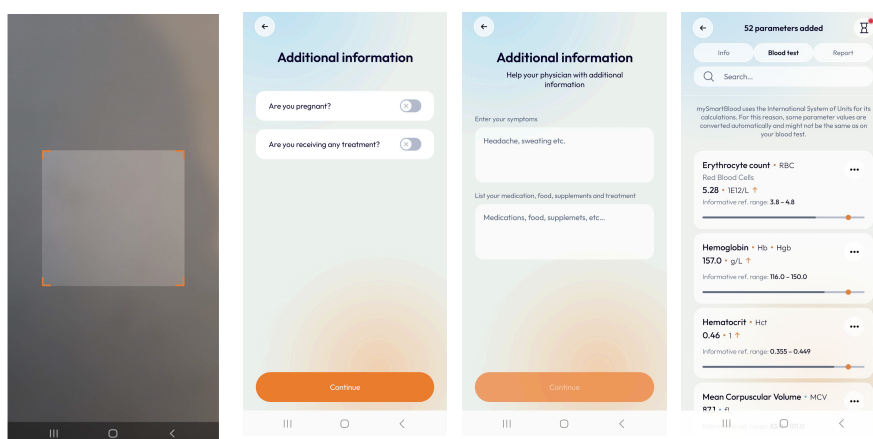


Figure 8: Upload blood parameters with QR code.



The user information in the mySmartBlood Personal information settings must be the same as on the blood test you are scanning. Specifically, the date of birth and biological sex must be the same. If this information is different, you will not be able to upload the blood test using the QR code (Figure 9).

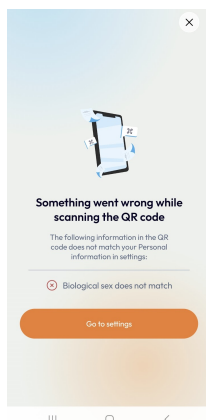


Figure 9: Something went wrong while scanning QR code.



mySmartBlood uses the International System of Units for its calculation. For this reason, some parameter values are converted automatically and might not be the same as on your blood test.

After successfully uploading your blood parameters by scanning a QR code, you may choose to add additional parameters if available. Once you're ready, tap **Create mySmartBlood Report** to submit your results for analysis.

5.5.3 Upload blood test from gallery or file

Tap **Upload blood test from gallery or file** and follow the instructions (Figure 10). This feature enables automated data extraction using OCR (optical character recognition) and is available only to users with a valid subscription. Users on a monthly plan receive 10 upload requests per billing period, while users on an annual plan receive 10 upload requests each month.

You can upload your blood test report as an image or file (PDF - unlocked, JPG, PNG). Each upload may contain up to 10 pages. For best results, use a well-lit image taken straight on, with no shadows, and a plain background. We recommend uploading only pages that contain blood parameters. Avoid uploading unclear or unrelated content, as the system may not process it correctly.

The app will extract and convert the data automatically. Please verify all the extracted data carefully. Parameters that are missing or unclear will be marked in red. You will not be able to continue until all red-marked parameters are reviewed, corrected manually if needed and saved. You will be able to edit the parameter name, value, and unit as needed, add new parameters, or delete any incorrectly extracted ones.



The measured blood parameters shall be in SI (International System of Units) units or CONV (Conventional) units. If your uploaded blood test report uses different units, you are responsible for converting the values appropriately before confirming them in the app. Incorrect unit conversions may lead to inaccurate results and interpretations.

In the mySmartBlood app, both the original name, value, and unit from the uploaded blood test and the corresponding name and unit used in mySmartBlood will always be displayed side by side.



The blood test report you are uploading must belong to you, and the date of birth and biological sex on the report must exactly match the information in your mySmartBlood Personal Information settings.

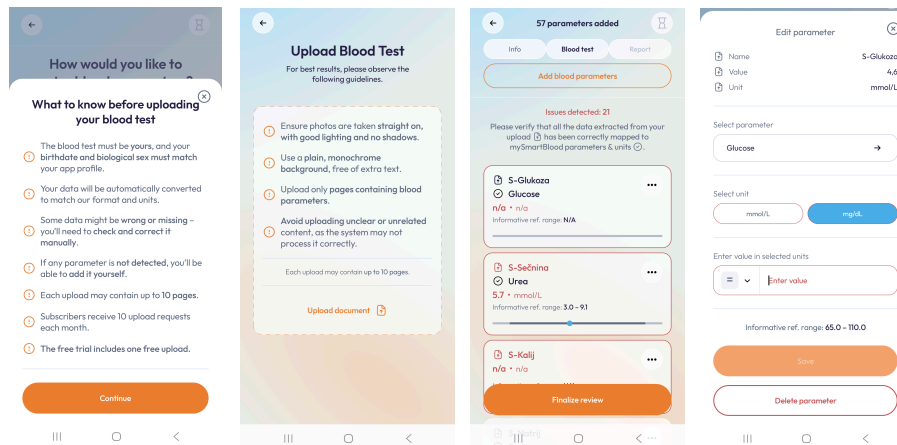


Figure 10: Upload blood test from gallery or file.

Once all parameters have been reviewed and red-marked ones corrected, tap **Create mySmartBlood Report** to submit your results for analysis.



The final mySmartBlood report can only be generated if you have entered your biological sex, age, current symptoms, and at least 30 blood parameters from the List of Available Blood Parameters provided in Annex I of this IFU.

For each blood parameter the Informative reference range is shown. Informative reference ranges for blood tests are sets of values used by health professional to interpret a set of medical test results from blood samples. Informative reference ranges of medical laboratory tests are frequently established using distribution-based (e.g. normal or log normal) 95% confidence intervals of healthy subjects' laboratory test results. The reference ranges play an important role in clinical practice in screening for diseases, assessing disease progression and treatment response².



Please note that different medical laboratories can have different Informative reference ranges and that reference ranges are highly dependent on age and biological sex.

If your entered blood parameter is out of bounds of the Informative reference range, it will be marked in yellow, and if it is within range, will be marked in blue.

² Source: Lim E, Miyamura J, Chen JJ. Racial/Ethnic-Specific Reference Intervals for Common Laboratory Tests: A Comparison among Asians, Blacks, Hispanics, and White. Hawaii J Med Public Health. 2015 Sep;74(9):302-10. PMID: 26468426; PMCID: PMC4578165.



Ideally, all blood parameters used for generating a single mySmartBlood report should be measured at the same time or within a maximum interval of ten days.

5.6 mySmartBlood Report

While your subscription is active, you can generate and access your mySmartBlood report at any time (Figure 11). The report includes a maximum of five of the most likely groups of diseases, the most relevant diseases within each predicted group of diseases, the parameter contributions for each group of diseases and the field of medicine for each group of diseases. For each relevant disease, you can also view associated symptoms, signs, and common comorbidities.

Figure 11a:

On the first page of the report (Figure 11a), you see the list of the maximum of five of the most likely groups of diseases that mySmartBlood predicts based on your blood test results. The likelihood is also represented graphically with the segmented circle.



Please note: these are not percentages, however, it represents the number of people with similar blood test results that were diagnosed with one of the diseases from this group.

All available groups of diseases are listed in [Annex II - GROUPS OF DISEASES](#).

If you tap specific group of diseases, mySmartBlood gives you more information (Figure 11b).

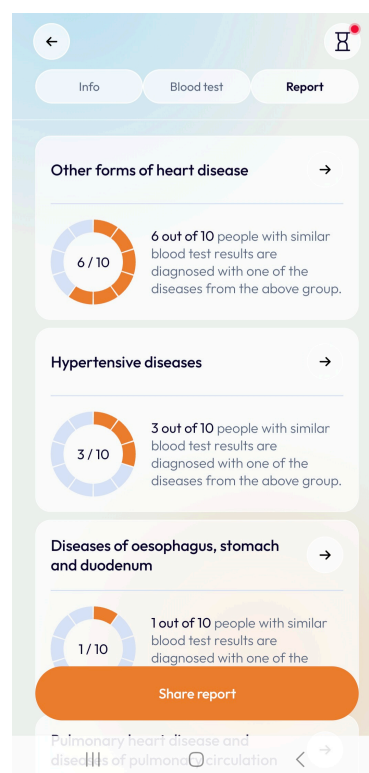


Figure 11a: mySmartBlood report showing the list of the most likely groups of diseases.

Figure 11b:
Within each group of diseases specific relevant diseases with ICD codes are indicated (Figure 11b).

The parameter contribution explains which parameters contributed the most to this mySmartBlood decision. The parameters in blue are those that are most in favour of the decision, while those in yellow are most opposed to this decision.

For a better understanding, the group of diseases is also classified in terms of the applicable field of medicine. This is meant to help you select the right physicians.

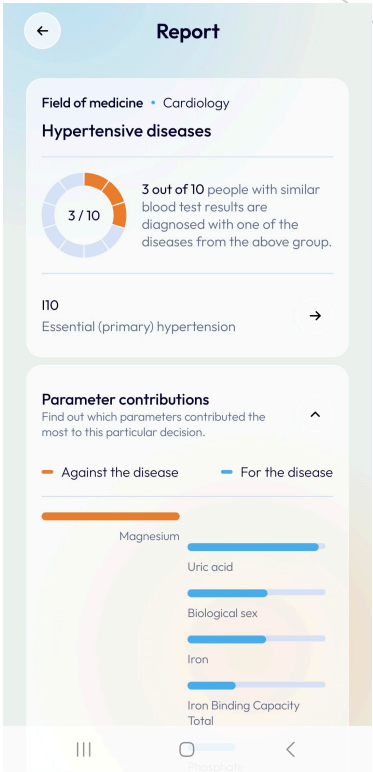


Figure 11b: mySmartBlood report showing detailed information within each group of diseases.

Figure 11c:
By clicking on each specific relevant disease within the report, you can view a comprehensive list of associated symptoms, clinical signs, and common comorbidities. This information is intended to support healthcare professionals by consolidating relevant patient data, thereby aiding in the confirmation or exclusion of the specific disease.

If you notice a mistake, please go back to the Home screen (Figure 3), duplicate the entered blood test and then you will be able to edit the blood parameters.

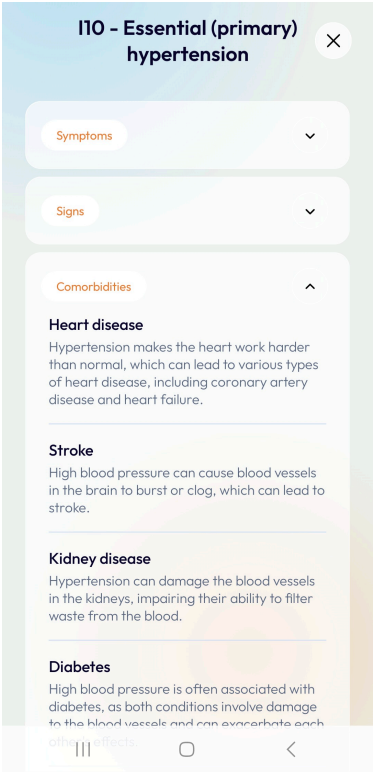


Figure 11c: Comprehensive list of associated symptoms, clinical signs, and common comorbidities.

If you tap the **Share** button you will generate and share the mySmartBlood report as a PDF file (Figure 12).

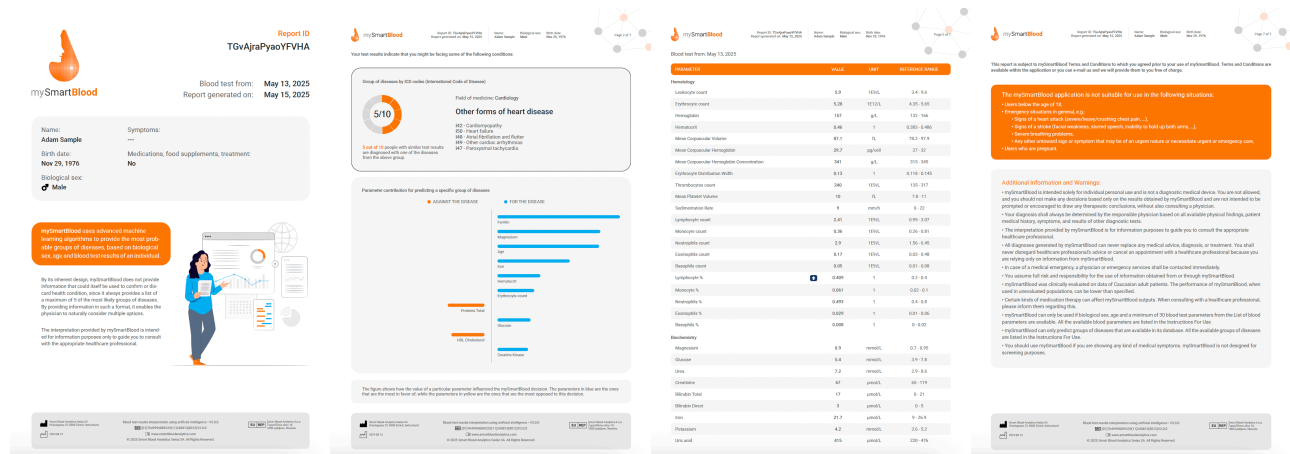


Figure 12: Final pdf mySmartBlood report.



- **The mySmartBlood interpretation is not a diagnosis and should not replace and/or overrule professional medical advice.**
- **A complete diagnosis cannot be made based on the mySmartBlood report alone.**
- **Please consult your physician before making any medical decision.**
- **Although the mySmartBlood can be an invaluable tool to enhance the diagnostic process, there is a substantial risk that in some situations mySmartBlood could fail to provide useful information to the user and their physician to identify the right diagnoses.**

5.7 mySmartAge prediction

The mySmartAge feature is an additional, optional functionality available in the mySmartBlood application. It provides a fun and engaging way to explore your health by estimating your biological age based on selected blood parameters you've entered.

The result of mySmartAge appears immediately after entering at least one blood parameter, displayed in the top right corner of the screen with an hourglass icon. This value updates automatically with each newly entered or modified parameter.

The feature gives you a fresh perspective on your body's internal state—beyond just your chronological age. Along with the predicted biological age, you can also view parameter contribution, which shows which blood parameters are associated with a "younger" or "older" biological profile.

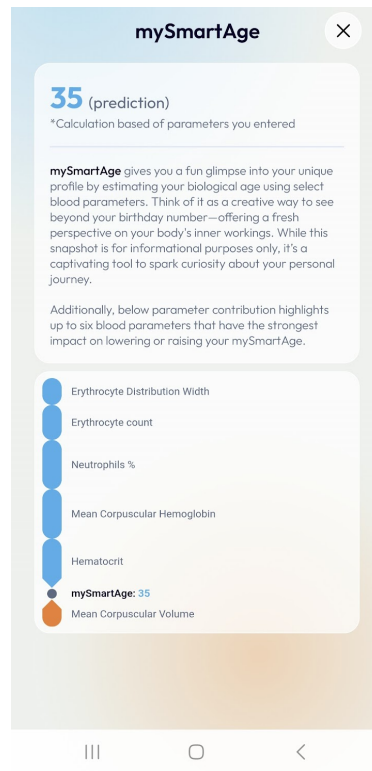


Figure 13: mySmartAge prediction



mySmartAge is not a medical evaluation, and it is intended for informational and entertainment purposes only. It does not influence the clinical interpretation and is not intended to replace medical advice.

5.8 Delete the mySmartBlood Application

You can always delete the mySmartBlood application through the settings of your mobile device.

- iOS device: Tap and hold the mySmartBlood application icon until it jiggles. Tap the "X" in the upper-left corner of the app, then tap "Delete" in the dialog box that appears.
- Android device: Open your device's Settings app. Go to Apps & notifications. Tap on the mySmartBlood application, then select 'Uninstall'.

Removing the app does not automatically cancel your subscription. If you no longer wish to be charged, you may cancel the subscription manually through your device's subscription settings.

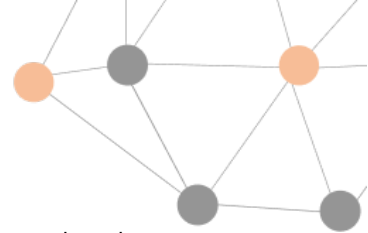
5.9 Residual Risks

The main residual risks of using mySmartBlood are:



- **When used in populations that are not the intended population, as specified in these instructions for use, there is a risk that the actual performance of the device will be below the specified values.**
- **Although mySmartBlood may be a valuable tool in improving the diagnostic process, there is a risk that in some situations mySmartBlood may fail to provide useful information for the physician to identify the correct diagnosis.**
- **Despite the warnings and instructions provided, there is a risk that users may still misinterpret the application's suggestions as a definitive diagnosis, potentially leading to decisions or actions that may negatively affect their health without proper medical consultation.**

6 CYBERSECURITY



We, at Smart Blood Analytics Swiss SA, maintain a high security and data privacy level in our mySmartBlood application. The application is monitored for security events and data breaches. If a security event or data breach should occur, the issue will be contained and resolved with urgency according to our established processes and you as a user will receive the information you need regarding your continued safe and secure use of the application. A continuous backup system is used to make sure all data is secure. Upon written request, we can provide you with a list of people in our team that may have access to your Personal Data. These people have entered into confidentiality agreements prior to having been granted access to your Personal Data.

It is strongly recommended that you choose a strong password to protect your account from unauthorized use and to make sure that your smartphone is up to level with the right security features. While not recommended, if you should choose to share your login with somebody, you do so at your own risk. Keep in mind that you can always revoke access by changing the password to your account and contacting support in order to close existing sessions.

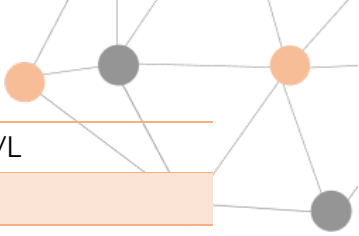
mySmartBlood does its utmost to guarantee your data safety. It is very important for you as a user to keep in mind the following recommendations:

- do not share your credentials,
- use a secured Internet connection,
- only use compatible devices,
- do not use rooted or jailbroken devices,
- do not use emulators.

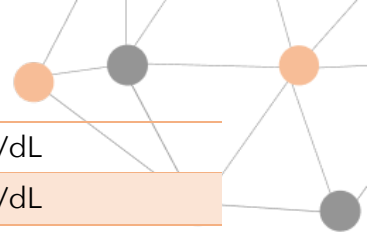
7 ANNEX I - LIST OF AVAILABLE BLOOD PARAMETERS

The mySmartBlood can only be used if a minimum of 30 blood test parameters from the following List are available:

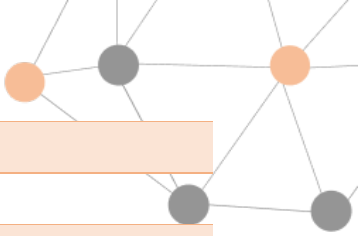
Blood parameters	Units (SI)	Units (CONV)
Erythrocyte count; RBC; Red Blood Cells	1E12/L	1E6/ μ L
Hemoglobin; Hb; Hgb	g/L	g/dL
Hematocrit; Hct	1	%
Mean Corpuscular Volume; MCV	fL	fL
Mean Corpuscular Hemoglobin; MCH	pg/cell	pg/cell
Mean Corpuscular Hemoglobin Concentration; MCHC	g/L	g/dL
Erythrocyte Distribution Width; RDW; Red Cell Distribution Width	1	%
Hypochromic red cells %; Hypo-He	1	%
Schistocyte; fragmented RBC /1000 RBC	/1000 Erci	/1000 RBC
Erythroblast %	1	%
Erythroblasts count	1E9/L	1E3/ μ L
Leukocyte count; WBC; White Blood Cell Count	1E9/L	1E3/ μ L
Neutrophils count; Neutrophil Granulocyte	1E9/L	1E3/ μ L
Neutrophils %; Neutrophil Granulocyte	1	%
Band neutrophil %	1	%
Lymphocyte count	1E9/L	1E3/ μ L
Lymphocyte %	1	%
Monocyte count	1E9/L	1E3/ μ L
Monocyte %	1	%
Eosinophils count; Eosinophil Granulocyte	1E9/L	1E3/ μ L
Eosinophils %; Eosinophils/100 leukocytes in Blood; Eosinophil Granulocyte	1	%
Basophils count; Basophil Granulocyte	1E9/L	1E3/ μ L
Basophils %; Basophils/100 leukocytes in Blood; Basophil Granulocyte	1	%
Immature granulocyte count	1E9/L	1E9/L
Immature Granulocytes %	1	%
Neutrophils non-segmented count	1E9/L	1E3/ μ L
Neutrophils non-segmented %	1	%
Blast cells count	1E9/L	1E9/L
Blast cells %	1	%



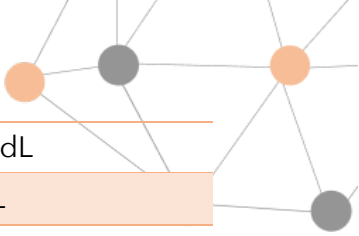
Promyelocytes	1E9/L	1E9/L
Promyelocyte %	1	%
Myelocytes count	1E9/L	1E3/μL
Myelocytes %	1	%
Metamyelocytes count	1E9/L	1E9/L
Metamyelocytes %	1	%
Promonocytes count	1E9/L	1E9/L
Promonocytes %	1	%
Atypical lymphocytes count	1E9/L	1E9/L
Atypical lymphocytes %	1	%
Reactive lymphocytes count	1E9/L	1E9/L
Reactive lymphocytes %	1	%
Plasma cells count	1E9/L	1E9/L
Plasma cells %	1	%
Hairy cells %	1	%
Villous lymphocytes %	1	%
Smudge cells	1E9/L	1E3/μL
Smudge cells %	1	%
Prolymphocyte	1E9/L	1E3/μL
Prolymphocyte %	1	%
Thrombocytes count; Platelet count	1E9/L	1E3/μL
Mean Platelet Volume; MPV	fL	fL
Platelet distribution width; PDW	1	1
Reticulocytes count, urgent automated	1E9/L	1E3/μL
Reticulocytes %	1	%
Re-MCVr; mean corpuscular volume of reticulocyte	fL	fL
CHR; mean reticulocyte hemoglobin content	pg	pg
Sedimentation Rate; SR; Erythrocyte sedimentation rate; ESR	mm/h	mm/h
Sodium; Na	mmol/L	mEq/L
Potassium; K	mmol/L	mEq/L
Chloride; Cl	mmol/L	mEq/L
Bicarbonate, Total	mmol/L	mEq/L
Magnesium; Mg	mmol/L	mg/dL
Calcium; Ca	mmol/L	mg/dL
Calcium corrected; Ca corrected	mmol/L	mmol/L
Calcium ionized; Ca ionized	mmol/L	mg/dL



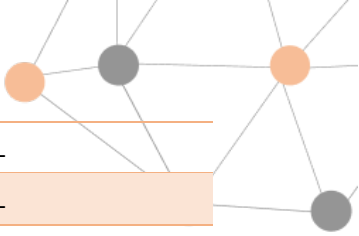
Phosphate; Inorganic Phosphorus; PO ₄ ; Phosphorus	mmol/L	mg/dL
Urea	mmol/L	mg/dL
Creatinine	μmol/L	mg/dL
Uric acid	μmol/L	mg/dL
Glucose	mmol/L	mg/dL
Iron; Fe	μmol/L	μg/dL
Iron Binding Capacity Total; TIBC	μmol/L	μg/dL
Bilirubin Total	μmol/L	mg/dL
Bilirubin Direct	μmol/L	mg/dL
Bilirubin conjugated	μmol/L	μmol/L
Bilirubin unconjugated	μmol/L	μmol/L
Lactate	mmol/L	mg/dL
Ammonia	μmol/L	μg/dL
Hemoglobin Plasma	mg/L	mg/L
Amylase Total ; Alpha amylase	μkat/L	U/L
Lipase	μkat/L	U/L
Alkaline Phosphatase; AP; ALP	μkat/L	U/L
Alkaline Phosphatase Liver1	1	%
Alkaline Phosphatase Liver2	1	%
Alkaline Phosphatase Bone	1	%
Alkaline Phosphatase Placental	1	%
Alkaline Phosphatase Intestine	1	%
Alanine Aminotransferase; ALT; GPT; Glutamic-pyruvic transferase; Alanine transaminase	μkat/L	U/L
Aspartate Aminotransferase; AST; GOT; Aspartate transaminase; Glutamic oxaloacetic transaminase	μkat/L	U/L
Gamma-Glutamyltransferase; GGT	μkat/L	U/L
Cholinesterase	μkat/L	U/L
Creatine Kinase; CK; Phosphocreatine kinase; Creatine phosphokinase; CPK	μkat/L	U/L
Creatine Kinase MB Isoenzyme %; CKMB	1	%
Creatine Kinase MM Isoenzyme %; CKMM	1	%
Creatine Kinase BB Isoenzyme %; CKBB	1	%
Creatine Kinase activity; CKMB activity	1	%
Creatine Kinase mass spec; CK MB mass spec	μg/L	ng/mL
Lactate Dehydrogenase; LD; LDH	μkat/L	U/L
Lactate dehydrogenase 1; LDH1 %	1	%
Lactate dehydrogenase 2; LDH2 %	1	%



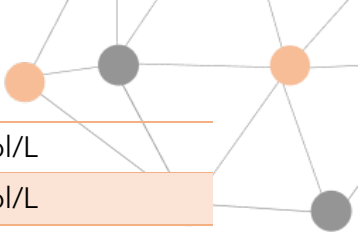
Lactate dehydrogenase 3; LDH3 %	1	%
Lactate dehydrogenase 4; LDH4 %	1	%
Lactate dehydrogenase 5; LDH5 %	1	%
Aldolase; ALD	nkat/L	U/L
Angiotensin Converting Enzyme; ACE	μkat/L	U/L
Tryptase	μg/L	ng/mL
Plasma renin activity; PRA	μg/L/h	ng/mL/h
SPE Albumin	g/L	g/dL
SPE alpha 1	g/L	g/dL
SPE alpha 2	g/L	g/dL
SPE beta 1	g/L	g/dL
SPE beta 2	g/L	g/dL
SPE gamma	g/L	g/dL
Albumin/Globulin Ratio electrophoresis	1	1
Immunoglobulin G; IgG	g/L	mg/dL
Immunoglobulin A; IgA	g/L	mg/dL
Immunoglobulin M; IgM	g/L	mg/dL
Immunoglobulin E; IgE	μg/L	IU/mL
IgG4	g/L	mg/dL
Helicobacter Pylori IgG	kIU/L	kIU/L
Helicobacter Pylori IgA	kIU/L	kIU/L
Ferritin	μg/L	ng/mL
Transferrin	g/L	mg/dL
Transferrin saturation %	1	%
Iron Binding Capacity Unsaturated; UIBC	μmol/L	μmol/L
Troponin T	μg/L	ng/mL
Troponin I	μg/L	ng/mL
Myoglobin	μg/L	μg/L
Proteins Total	g/L	g/dL
C-Reactive Protein; CRP	mg/L	mg/dL
Beta-2 microglobulin	mg/L	mg/dL
Cystatin C	mg/L	mg/L
Kappa free	mg/L	mg/L
Lambda free	mg/L	mg/L
Kappa/Lambda coefficient	1	1
Ceruloplasmin	g/L	mg/dL
Haptoglobin	g/L	mg/dL



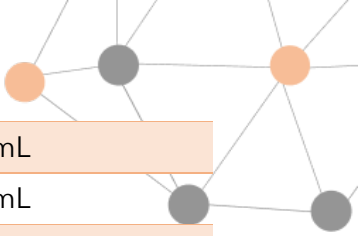
Alpha-1-Antitrypsin	g/L	mg/dL
Protein S100	µg/L	ng/L
Chromogranin A	µg/L	ng/mL
Homocysteine	µmol/L	mg/L
Cryoglobulin	mg/L	mg/L
Transferrin- carbohydrate deficient; CDT; Carbohydrate Deficient Transferrin	1	%
Cholesterol Total	mmol/L	mg/dL
HDL Cholesterol	mmol/L	mg/dL
LDL Cholesterol	mmol/L	mg/dL
LDL direct	mmol/L	mg/dL
Triglycerides	mmol/L	mg/dL
Very low density lipoprotein test; VLDL	mmol/L	mg/dL
Apolipoprotein A1; Apo A1	g/L	mg/dL
Apolipoprotein B; Apo B	g/L	mg/dL
Lipoprotein; Lipoprotein (a)	mg/L	mg/dL
Carnitine	µmol/L	nmol/mL
Prothrombin activity %; PT %	1	%
Prothrombin International Normalized Ratio; INR	1	1
Activated Partial Thromboplastin Time; APTT	s	s
Fibrinogen	g/L	mg/dL
Anti thrombin III	1	%
Protein S antigen %	1	%
Protein C activity %	1	%
Thrombin time	s	s
D-Dimer	µg/L	µg/mL
Col/Epi closure time	s	s
Col/ADP closure time	s	s
Vitamin A	µmol/L	µg/dL
25-hydroxy vitamin D; Calciferol	nmol/L	ng/mL
1,25-Dihydroxyvitamin D; Calcitriol	pmol/L	pg/mL
Vitamin E	µmol/L	µg/mL
Vitamin B12	pmol/L	pg/mL
Folic Acid Serum	nmol/l	ng/mL
Thyroid-Stimulating Hormone-Sensitive; TSH; Thyrotropin	mIU/L	µIU/mL
T3-Free; Triiodothyronine Free	pmol/L	pg/mL
T4-Free; Thyroxine Free	pmol/L	ng/dL



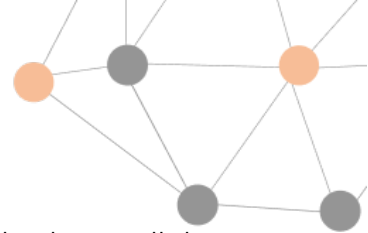
Calcitonin	pmol/L	ng/L
Parathyroid Hormone Intact; PTH	pmol/L	ng/L
Cortisol	nmol/L	µg/dL
Aldosterone	nmol/L	ng/dL
Adrenocorticotrophic hormone; ACTH	pmol/l	pg/ml
Epinephrine; Adrenaline	nmol/L	ng/L
Norepinephrine; Noradrenaline; NE; NA	nmol/L	ng/L
Osteocalcin	µg/L	ng/mL
Gonadotropin; hCG; Human Chorionic Gonadotropin; Chorionic Gonadotropin	IU/L	IU/L
Follicle-Stimulating Hormone; FSH	U/L	mU/ml
Luteinizing Hormone; LH	U/L	mU/ml
Sex Hormone-Binding Globulin; SHBG	nmol/L	nmol/L
Testosterone Total	nmol/L	ng/dL
Testosterone free	pmol/L	pg/mL
Dihydrotestosterone; DHT; Androstanolone	nmol/L	ng/dL
Androstenedione; 4-Androstenedione	nmol/L	ng/dl
Dehydroepiandrosterone Sulfate; DHEA	µmol/L	µg/dL
17-hydroxyprogesterone; 17-OHPG	nmol/L	ng/mL
Prolactin; PRL	µg/L	ng/mL
C-Peptide	nmol/l	ng/mL
NT-Pro B-Type Natriuretic Peptide; NT-Pro BNP	ng/L	pg/mL
Procalcitonin	µg/L	ng/mL
Insulin-like Growth Factor-1; IGF-1	µg/L	ng/mL
Carcinoembryonic Antigen; CEA; Embryonic Carcinoma Antigen	µg/L	ng/mL
Carbohydrate Antigen 19-9; CA 19-9; Cancer Antigen 19- 9	kU/L	U/mL
Cancer antigen 72-4; CA 72-4	kU/L	kU/L
Cancer Antigen 125; CA 125; Carbohydrate Antigen 125	kU/L	U/mL
Cancer antigen 15-3; CA 15-3; CA153; Mucin-Like Carci- noma-Associated Antigen	kU/L	U/ml
Prostate-specific antigen; PSA	µg/L	ng/ml
Prostate-Specific Antigen Free; PSA Free	µg/L	ng/mL
Alpha-fetoprotein; Alpha-1-Fetoprotein; AFP	kU/L	ng/mL
Neuron-Specific Enolase; NSE	µg/L	ng/mL
Cyfra 21-1	µg/L	µg/L
Tissue Polypeptide Antigen; TPA	U/L	U/L



Metanephrine	ng/L	nmol/L
Normetanephrine	ng/L	nmol/L
Ethanol	mmol/L	mg/dL
Complement C3	g/L	mg/dL
Complement C4	g/L	mg/dL
Rheumatoid Factor; RHUT	klU/L	IU/mL
Thyroperoxidase Antibodies; TPO Ab; Thyroperoxidase Ab	klU/L	IU/mL
Hemoglobin A; Hb A	1	%
Hemoglobin F; Fetal Hemoglobin; Hb F	1	%
Hemoglobin A2	1	%
Hemoglobin A1c; HbA1C	1	%
Hemoglobin A1c IFCC; HbA1C IFCC	mmol/mol	mmol/mol
pH	1.0000	1
Carbon dioxide partial pressure, arterial blood; pCO2	kPa	mmHg
Oxygen, partial pressure, arterial blood; pO2	kPa	mmHg
Bicarbonate; HCO3, arterial blood	mmol/L	mEq/L
Carbon dioxide content, arterial blood	mmol/L	mmol/L
Base excess	mmol/L	mmol/L
Oxygen saturation; HbO2; Fractional oxyhemoglobin in arterial blood	1	1.0000
Carbon monoxide; Carboxyhemoglobin; CO-Hb	1	%
Methemoglobin; Met-Hb	1	%
Oxyhemoglobin	1	%
Glucose arterial	mmol/L	mg/dL
Reticulocyte hemoglobin equivalent; Ret-He	pg	pg
Zinc; Zn	μmol/L	μg/dL
Copper; Cu	μmol/L	μg/dL
Selenium; Se	μg/L	ng/mL
Chromium; Cr	nmol/L	μg/L
Manganese; Mn	μg/L	ng/mL
Lead; Pb	μmol/L	μg/L
Mercury; Hg	μg/L	ng/mL
Aluminum; Al	μg/L	ng/mL
Lithium; Li	mmol/L	mEq/L
Digoxin	nmol/L	ng/mL
Carbamazepine, Total	μmol/L	μg/mL



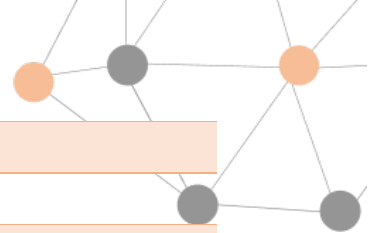
Phenobarbital	μmol/L	μg/mL
Phenytoin	μmol/L	μg/mL
Valproic Acid, Total	μmol/L	μg/mL
Gentamicin, Random	μmol/L	μg/mL
Gentamicin, Peak	μmol/L	μg/mL
Vancomycin, Random	μmol/L	μg/mL
Vancomycin, Peak	μmol/L	μg/mL
Theophylline	μmol/L	μg/mL
Paracetamol; Acetaminophen	μmol/L	μmol/L
Anti HBs; Hepatitis B Surface Antibody	IU/L	IU/L
Anti HBc IgM; Hepatitis B Core Antibody IgM	kIU/L	kIU/L
Anti HAV; Hepatitis A virus Ab	IU/L	IU/L
Procollagen type I N propeptide; P1NP	μg/L	μg/L
Bile Acid	μmol/L	nmol/mL
S-BUN; BUN; Blood urea nitrogen	mg/dL	mmol/L



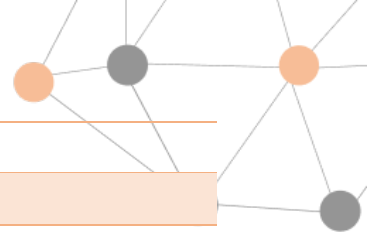
8 ANNEX II - GROUPS OF DISEASES

mySmartBlood can only predict the groups of diseases that are available in its database. All the available groups of diseases are listed in below table:

ICD	GROUPS OF DISEASES
A00-A09	Intestinal infectious diseases
A15-A19	Tuberculosis
A50-A64	Infections with a predominantly sexual mode of transmission
B15-B19	Viral hepatitis
B35-B49	Mycoses
B50-B64	Protozoal diseases
B65-B83	Helminthiasis
B90-B94	Sequelae of infectious and parasitic diseases
C15-C26	Malignant neoplasms of digestive organs
C30-C39	Malignant neoplasms of respiratory and intrathoracic organs
C45-C49	Malignant neoplasms of mesothelial and soft tissue
C60-C63	Malignant neoplasms of male genital organs
C64-C68	Malignant neoplasms of urinary tract
C73-C75	Malignant neoplasms of thyroid and other endocrine glands
C76-C80	Malignant neoplasms of ill-defined, secondary and unspecified sites
C81-C96	Malignant neoplasms of lymphoid, haematopoietic and related tissue
D10-D36	In situ neoplasms
D37-D48	Benign neoplasms
D00-D09	Neoplasms of uncertain or unknown behaviour
D50-D53	Nutritional anaemias
D55-D59	Haemolytic anaemias
D60-D64	Aplastic and other anaemias
D65-D69	Coagulation defects, purpura and other haemorrhagic conditions
D70-D77	Other diseases of blood and blood-forming organs
D80-D89	Certain disorders involving the immune mechanism
E00-E07	Disorders of thyroid gland
E09-E14	Impaired glucose regulation and diabetes mellitus
E15-E16	Other disorders of glucose regulation and pancreatic internal secretion
E20-E35	Disorders of other endocrine glands
E40-E46	Malnutrition
E50-E64	Other nutritional deficiencies
E65-E68	Obesity and other hyperalimentation



E70-E89	Metabolic disorders
F60-F69	Disorders of adult personality and behaviour
I00-I02	Acute rheumatic fever
I05-I09	Chronic rheumatic heart diseases
I10-I15	Hypertensive diseases
I20-I25	Ischaemic heart diseases
I26-I28	Pulmonary heart disease and diseases of pulmonary circulation
I30-I52	Other forms of heart disease
I60-I69	Cerebrovascular diseases
I70-I79	Diseases of arteries, arterioles and capillaries
I80-I89	Diseases of veins, lymphatic vessels and lymph nodes, not elsewhere classified
I95-I99	Other and unspecified disorders of the circulatory system
J00-J06	Acute upper respiratory infections
J09-J18	Influenza and pneumonia
J20-J22	Other acute lower respiratory infections
J30-J39	Other diseases of upper respiratory tract
J40-J47	Chronic lower respiratory diseases
J60-J70	Lung diseases due to external agents
J80-J84	Other respiratory diseases principally affecting the interstitium
J85-J86	Suppurative and necrotic conditions of lower respiratory tract
J90-J94	Other diseases of pleura
J95-J99	Other diseases of the respiratory system
K00-K14	Diseases of oral cavity, salivary glands and jaws
K20-K31	Diseases of oesophagus, stomach and duodenum
K35-K38	Diseases of appendix
K40-K46	Hernia
K50-K52	Noninfective enteritis and colitis
K55-K63	Other diseases of intestines
K65-K67	Diseases of peritoneum
K70-K77	Diseases of liver
K80-K87	Disorders of gallbladder, biliary tract and pancreas
K90-K93	Other diseases of the digestive system
L80-L99	Other disorders of the skin and subcutaneous tissue
M00-M03	Infectious arthropathies
M05-M14	Inflammatory polyarthropathies
M15-M19	Arthrosis
M20-M25	Other joint disorders



M30-M36	Systemic connective tissue disorders
M40-M43	Deforming dorsopathies
M45-M49	Spondylopathies
M50-M54	Other dorsopathies
M60-M63	Disorders of muscles
M65-M68	Disorders of synovium and tendon
M70-M79	Other soft tissue disorders
M80-M85	Disorders of bone density and structure
M86-M90	Other osteopathies
M91-M94	Chondropathies
M95-M99	Other disorders of the musculoskeletal system and connective tissue
N00-N08	Glomerular diseases
N10-N16	Renal tubulo-interstitial diseases
N17-N19	Kidney failure
N20-N23	Urolithiasis
N25-N29	Other disorders of kidney and ureter
N30-N39	Other diseases of urinary system
N40-N51	Diseases of male genital organs
N60-N64	Disorders of breast
N80-N98	Noninflammatory disorders of female genital tract
Q60-Q64	Congenital malformations of the urinary system
T36-T50	Poisoning by drugs, medicaments and biological substances
T51-T65	Toxic effects of substances chiefly nonmedicinal as to source