

Manual for the "Technician" category

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Foreword

This manual presents the LabBook elements that are accessible to a person with "technician" rights. If you do not have access to any of the actions via your interface, please contact your administrator so that these rights can be assigned to you.

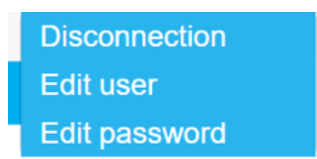
In order for a technician's work to be finalized for LabBook, the analysis result must be recorded and validated. Once this validation is done, the analysis disappears from the technician's interface to be viewed by the biologist for final validation.

Home page

The screenshot shows the LabBook home page interface. At the top, there is a navigation bar with icons for Administrative, Reports, Quality, and Non-conformity. The user's name 'Thierry TECH' and a profile icon labeled 'Tec' are visible, along with a language selector set to 'UK'. A blue callout box points to the profile icon, stating: 'Allows you to disconnect Edit profile and password'. A yellow callout box points to the language selector, stating: 'Allows you to change the language of the interface'. Below the navigation bar, there are four main action buttons: 'Record list', 'Technician work list', 'Status of specimens in progress', and 'Results entry'. At the bottom, there are two summary cards: 'Validations to be carried out' with a pie chart, and 'Laboratory activity' with a list of items. A grey callout box points to the 'Laboratory activity' card, stating: 'Here you have the information about the last backup'.

By clicking on the icon next to your name, you have the option to :


- Logout : Allows you to leave the application by closing your account
- Edit user : Allows you to edit your profile information (login, first name, last name, ...)
- Edit password : Here you have the possibility to change your password

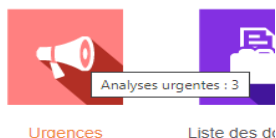


This homepage allows you to directly access the results and work lists for your profile.

For the use of the "New Outpatient Request" and "New Inpatient Request" record creation functions, please refer to the Manual for the "Secretary" category.

Emergency management

If you see the logo  on your home screen, it means that some files have analyses to be done urgently. By moving the mouse over this logo, the software will indicate the number of analyses



concerned:

By clicking on the icon, you will go directly to a listing that shows you the files concerned. You can then enter your results for these files.

Technician work list

This list shows you the files that require your intervention. It allows you to enter the results file by file. If you prefer to do it Analysis by Analysis, please refer to the chapter "Entering results".

Action	Status	Emergency	Record number	Record creation	Patient code	Name	Firstname
Administrative record	A		0008	2023-08-08	RMGQ3	Baldé	gora
Results entry			0002	2023-08-04	KJ004	MANZI	
Technical validation			00190				

In the "Action" column, you can access several choices:

- "Administrative file": allows you to view the information entered when the file was registered. It also allows you to print an invoice or to reprint a report.
- "Entering the results": allows you to enter the results of analyses for this file.
- "Technical validation": allows the technical validation of the recorded results.

The screenshot shows the LabBook interface for a patient named Astou NDIAYE. The top navigation bar includes 'Administratif', 'Rapports', 'Qualité', and 'Non conformité'. The main content area is titled 'Saisie de résultats - QM/VY3 - Astou NDIAYE - - 30 années'. Below this, the 'Identité' section shows the patient's name and date of birth. A callout box labeled 'File number' points to a small box containing '10'. Another callout labeled 'Patient's identity' points to the patient's name and date of birth. A third callout labeled 'Indicates the name of the requested tests' points to the title of the hemogram section. The hemogram table lists various parameters with input fields and status icons (A for 'Analyse', T for 'Validé'). A callout labeled 'Variables calculated according to values entered around' points to the 'Charge (TCMH)', 'Concentration (CCMH)', and 'Leucocytes (LCR)' rows.

Paramètre	Unité	Statut
Hématies	million/mm ³	A
Hémoglobine	g/dl	A
Hématocrite	%	A
Volume globulaire (VGM)	fL	A
Charge (TCMH)	pg	A
Concentration (CCMH)	%	A
Leucocytes (LCR)	million/mm ³	A
Polynucléaires neutrophiles	%	A
Polynucléaires éosinophiles	%	A

Once you have entered the results, you can click on "Save" for each analysis. This allows you to enter the results in real time.

The screenshot shows the 'Créatininurie [Biochimie urinaire]' section. The result for 'Créatinine' is 12 mg/24h, with a status of 'A'. Below the result, there are buttons for 'Save' and 'Validation', and a field for 'Validation date' set to 08/08/2023. The technician is listed as 'Thierry TECH'.

When a record is made, you can validate your result. Once this validation is done, you will not be able to go back to the result. Only a biologist can reset the result of the analysis. Once the validation is done, the status of the analysis changes from "A" to "T".

The screenshot shows the 'Acide urique' result with a value of 139 µmol/l. The status is 'A' (Analyse), but there is a warning triangle icon next to it, indicating that the value is out of range.

If a triangle with an exclamation mark appears on the line of a result, it means that the value entered is "out of range". These standards are indicated in your analysis repository. If the warning seems incorrect, you can contact your administrator or your biologist to make the change in the repository.

Technical validation

This item in the list of actions allows you to perform only the technical validation on a file. Thus the interface that appears shows you only the elements to be validated on the file in question:

Test Name	Unit
Red blood cells	F millions/mm ³
Globe volume (GMV)	l/l
Concentration (CCMH)	1 %
Leukocytes	1 G/l
Polynuclear neutrophils	1 %
Polynuclear eosinophils	1 %
Polynuclear basophils	1 %
Lymphocytes	1 %
Monocytes	1 %
Platelets	1 G/l

Date de validation: 22/03/2022 | Technicien: Thierry TECH | Valider

Add new analyses

It is possible to add tests to the patient file. To do this, search for the desired tests by their codes or test names, select them and click on "Add". The new tests added will be placed on the list of tests for entry and technical validation.

B005

[B005]
Glucose
Biochimie sanguine

Bicarbonates

Add

Entering the results

If you go through the icon on the home page or through the menu "Administrative", "Results entry", you will be able to enter the results for all the files in progress.

To select the files that concern you, you can :

- Choose the dates of requests;
- Choose the type of analysis: this allows you to display only the files concerned by type of analysis OR also choose by Analysis
- Choose with the two options "Show only priority analyses" and "Hide already validated results".

The page that appears shows the files concerned by analysis family. You can then enter your results, save them and validate them analysis family by analysis family.

You can print the bench sheet by clicking on the "Bench Sheet" button.

Status of current withdrawals

This module allows you to enter the samples taken in the laboratory. To do so, you can go through the icon on your home page or through "Administrative", "Status of specimens in progress".

Total number of lines : 17
First Previous 1 Next Last

Record number	Record date	Patient	Blood	Stool	Urine	Other
0008	2023-08-08	Baldé gora	To complete		To complete	
0007	2023-08-08	Fall Tapha	To complete			
0006	2023-08-07	KA OUMAR	To complete			
0005	2023-08-05	ONE Trois	To complete			
0004	2023-08-05	TWO Deux				To complete
0003	2023-08-05	ONE Trois	To complete			
0002	2023-08-04	MANZI	To complete			

This table summarizes for each file, the list of withdrawals to be made. If the line shows "To be entered", it means that no data has been entered for the collection in question. If the line shows "Modify", it means that information has been entered for the file. However, you can access it at any time to post a change.

Record list

You can access this list either via the icon on the home page, or via the "Administrative" menu, "Record List".

Record list

Total number of lines : 17
First Previous 1 Next Last

Action	Status	Emergency	Record number	Record creation	Patient code	Lab code	Name	Firstname
I	A		0008	2023-08-08	RMGQ3	08	Baldé	gora
I	B		0007	2023-08-08	TOHU4	12	Fall	Tapha
T	T		0006	2023-08-07	ELIB5	14211-cares	KA	OUMAR
I	B		0005	2023-08-05	KFQY5		ONE	Trois
I	B		0004	2023-08-05	ZIYT7		TWO	Deux
I	B		0003	2023-08-05	KFQY5		ONE	Trois
I	A		0002	2023-08-04	KJOO4		MANZI	
I	B		00190					
I	B		0001	2023-08-04	ELIB5	14211-cares	KA	OUMAR
I	B		0009	2023-07-27	DHBI1		AKAKPO	
I	B		0008	2023-07-27	ELIB5	14211-cares	KA	OUMAR
I	B		0007	2023-07-27	ELIB5	14211-cares	KA	OUMAR
I	B		0006	2023-07-26	KFQY5		ONE	Trois

This display allows you to quickly see the files in progress. The different existing statuses are the following:

- A: administratively validated (no test results have been entered in the file)
- T: technically validated (results have been entered and validated by the technician. The biologist must validate the results to create the report).
- B: biologically validated (the results were validated. The report could be edited. By clicking on the file, you can see when).
- I: some elements have been validated but not all of the requested analyses.

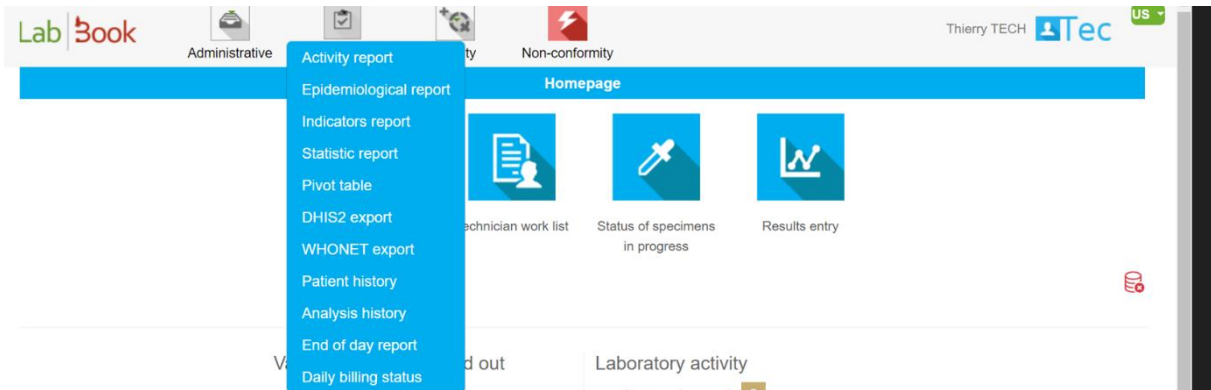
N.B.: If your file has an "Internal laboratory file number", it is displayed in the file number column

(and after the file number) **0010**
456

In the Actions menu, you will find the elements that allow you to act on the file as presented in the technician work list.

Reports

You have access to the tool that presents the standard LabBook reports.



Activity report

This report allows you to have data on Analyses by type of request (Outpatient, Inpatient, On-call and Total) and by age group.

Please note: Age groupings can be customized in the administration interface (with the "root" login).

You have the possibility to export the data by type or by age or to export the whole report in PDF format.

The screenshot shows the 'Activity report' interface. It includes a search bar with filters for 'Date from' (08/07/2023) and 'to' (08/08/2023), and 'Analysis family'. Below the search bar are two tables:

Analysis by type of request

Analyzes	External			Inpatient			Guards			Total		
	M	F	U	M	F	U	M	F	U	M	F	U
Acide urique (uricémie) [B001]	3	0	0	0	0	0	0	0	0	3	0	0
Alpha 1-4 glucosidase séminale [B105]	1	1	0	0	0	0	0	0	0	1	1	0
Antibiogramme Haemophilus influenzae [CMI] [B673]	0	0	0	1	0	0	0	0	0	1	0	0
D Dimères par technique agglutination de particules de latex [B146]	2	0	0	0	0	0	0	0	0	2	0	0

Analyses by age group

Analyzes	Less than 5 years			5 to 20 years			20 to 40 years			40 to 50 years			Greater than 50 years			Total		
	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U
Acide urique (uricémie) [B001]	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	3	0	0
Alpha 1-4 glucosidase séminale [B105]	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0
Antibiogramme Haemophilus influenzae [CMI] [B673]	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
D Dimères par technique agglutination de particules de latex [B146]	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0
Détermination du groupe sanguin ABO et Rhésus standard (D) [B157]	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	2	1	0

Epidemiological report

This report presents a number of indicators. You have the details of the report in the Epidemiology tab with the disease, the nature of the sample, the total received, the total analysis and the results.

Disease	Type of specimen	Total received	Total analysed	Results
Choléra	Selles	0	0	Examen direct Bacilles à mobilité polaire : 0 BGN incurvés : 0 Culture Négatif : 0 Positif : 0 V. cholerae O1 : 0 V. cholerae O139 : 0
Ebola	Sang	0	0	Positif : 0 Négatif : 0

You can also search for a specific report by entering the date range on the "Search" tab.

And also download the report in PDF format by clicking on the "Download Report" button at the bottom of the page.

[Download the report](#)

The epidemiological report can be configured from the "Epidemio Configuration" tab with the administrator and biologist profiles.

Static ratio

	Less than 5 years	5 to 20 years	20 to 40 years	40 to 50 years	Greater than 50 years	No information	Total
Male	0	6	8	0	1	0	15
Female	1	0	1	0	0	0	2
Unknown	0	0	0	0	0	0	0
Internal	0	6	0	0	0	0	6
External	1	0	9	0	1	0	11
Total	1	6	9	0	1	0	17

In this report, you have the data concerning the distribution of the files by sex, age group, and type of patient.

The search for data is possible by date and also by requesting department for inpatients. The addition of the requesting services is done

You also have statistical figures on prescribers, samplers and samples. And at the end, a table that shows you the number of patients and analyses by type (outpatient, inpatient and on-call)

	M	F	U	Total		M	F	U	Total
Number of outpatients	14	2	0	16	Number of external scans	22	4	0	26
Number of hospitalized patients	1	0	0	1	Number of inpatient analyzes	3	0	0	3
Number of on-call patients	0	0	0	0	Number of Guard Scans	0	0	0	0
Number of patients	15	2	0	17	Number of analysis	25	4	0	29

Patient history

This report allows you to search for a patient and access their history in the software.

Patients list

Search

Code Name Phone

Lab code Firstname Sex

Total number of lines : 10
First Previous 1 Next Last

Action	Code	Lab code	Name	Firstname	Date of birth	Sex
-	HFQF6					Unknown
-	UGQL7					Unknown
-	DHB11		AKAKPO		1990-07-03	Male
-	RMGQ3	08	Baldé	gora		Male

Version : 3.3.11 | Contributors

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You can search for the patient concerned by his or her code (the code generated by LabBook), lab code (the internal patient code of the laboratory), first name and last name, telephone number and gender. To access the history, simply click on the down arrow next to the "i" icon in the Action



column . You will then arrive on a page presenting all the analyses done by the patient and the known results.

Lab Book Administrative Reports Quality Non-conformity Thierry TECH Tec US

Patient history

Code KFQY5
 Lab code
 Name ONE
 Firstname Trois
 Date of birth
 Sex Male

Analyzes list

Total number of lines : 12
 First Previous 1 Next Last

Action	Record number	Prescr. date	Analysis	Variable	Result
	0005	2023-08-04	D Dimères par technique agglutination de particules de latex	D Dimères	12
	0003	2023-08-04	Acide urique (uricémie)	Acide urique	14
	0006	2023-07-26	Recherche de plasmodium (goutte épaisse et frottis mince)	Densité parasitaire	1.00

End of day report

By default, this report shows the status of the various files in progress for the current day.

Lab Book Administrative Reports Quality Non-conformity Thierry TECH Tec US

End of day report

Search

Date from 08/08/2023 to 08/08/2023

Total number of lines : 6
 First Previous 1 Next Last

Action	Date	Record number	Family	Analysis	Validation
	2023-08-08	0007	Biochimie sanguine	Glucose	Administratif, Technique, Biologique
	2023-08-08	0007	Biochimie sanguine	Urée	Administratif, Technique, Biologique
	2023-08-08	0008	Biochimie urinaire	Créatininurie	Administratif
	2023-08-08	0008	Hématologie, Immunohématologie et Hémostase	Détermination du groupe sanguin ABO et Rhésus standard (D)	Administratif

First Previous 1 Next Last

It is possible to change the filter on the dates to select another day or directly another period.

The "Export data" button allows you to obtain the report in csv format.

Daily billing status

This report allows you to view the billing status of cases.

Daily billing status

Search

Date from 08/08/2023 to 08/08/2023 Record creator Click to start a search

List of current invoices

Total number of lines : 2
First Previous 1 Next Last

Record number	Invoice no.	Price	To be paid after discounts
202308080001		20000.00	20000.00
202308080002		50000.00	50000.00

First Previous 1 Next Last

Left to pay 0.00


Download the report

It is possible to modify the filter on dates as well as to restrict on a file creator in order to reduce the view by creator.

The outstanding balance is displayed at the bottom of the listing.

Quality and Non-Compliance Module



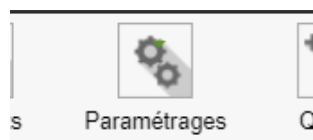
By clicking on the icon  the declaration of a non-conformity is possible for the authorized personnel.

The form that opens allows you to describe the type of non-conformity, its impact on the laboratory and the elements put in place to resolve this non-conformity.

For all other information on these two modules, please refer to the manual on these features.

Advanced Technician

This role was added with LabBook 3.0 to give more privileges to a standard technician account. The difference is in the ability to access the site settings menu and the folder deletion action.



In this menu, the advanced technician can access the following options:

- "Preference" to customize the information of the laboratory: the header of the report, the unit price of the acts of sampling and analysis, the activation of module, the unit of age by default, the time of automatic disconnection, and the possibility of invoicing the hospitalized patients.
- You can use the "User management" button to add, modify or delete a user.

Lab | Book

- The "Analysis repository" for the possibility to edit and add an analysis. And also to import/export the repository.
- "Dictionaries" to add, edit in the data dictionary.
- "Age Interval Setup" to change the reporting data by age.
- You can use the "Requesting Services Configuration" button to add a list of requesting services.
- The "Configuration of functional units" allows you to create units in LabBook, assign users and analyses to each unit in order to use a single LabBook for different services and with partitioned data.
- Use the "Patient File Management" button to modify patient files. Merge two patient records.
- DHIS2 and Epidemio configurations to load or download the configuration file
- Finally the configuration of the indicator report to create and add a spreadsheet that allows the management of data to be displayed in the report.

APPENDIX: Corresponding ID labels - Data export

<i>ID/Code</i>	<i>Wording</i>
Sex (Gender)	
1	Male
2	Female
3	Unknown
impact_patient (Impact on the patient)	
1053	Low
1055	Important
1057	Grave
0	No
Impact_user (Impact on staff)	
1053	Low
1055	Important
1057	Grave
0	No
Title	
260	Mr.
261	Ms.
262	Miss
263	Doctor
264	Professor
Ctq_type_val (Control type)	
QN	Quantitative
QL	Qualitative
cte_conform (Control result)	
C	Compliant

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N	Not in compliance
U	Other