

Predigraft v1.18

User guide Healthcare Professional



Please read this entire manual carefully before using Predigraft software, a class IIa medical device.



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CE 2797

Manufacturer:



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This manual complies with EU Medical Device Regulation 2017/745.



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1. About this manual

This manual is an integral part of the Predigraft software. It details the presentation of the application, its configuration, and its use.

The electronic version of this manual is available online at www.cibiltech.com.

Note: The screenshots shown in this user manual are examples only, they are not exhaustive and may differ slightly from the views available in the user interface.

Intended Audience: This manual is intended for healthcare professionals.

2. Security Information

Only healthcare personnel who have read these instructions in full are authorized to use Predigraft. For correct and safe use and for all maintenance interventions, it is essential that personnel follow standard safety procedures.

2.1. Primary risks related to the use of Predigraft

The main risks identified are related to the input of data that can result in:

- An overestimation of the patient's current or expected state of health:

When an input is erroneous (i.e., falsely reassuring) and an alert is not sent to the healthcare professional, the chances of graft survival are higher than expected.

- An underestimation of current or expected health status:

When an input is erroneous (i.e., falsely critical) and an alert is sent to the healthcare professional, the probabilities of graft survival are lower than expected.

Warning: Predigraft is a decision support tool. The clinical assessment of health status by the health professional is not based solely on the prognosis of Predigraft.

2.2. Warnings

- Always ensure that you only open websites via a secure SSL/TLS connection. In this case, the Internet address starts with "https". Simple connections that only start with "http" are a security risk.
- Make sure you are using the latest version of your web browser (compatible with Predigraft *as per the technical specifications chapter*) and regularly update your operating system.
- Keep your passwords up to date. Use a separate password for each application and do not use previous password.
- Do not click on links in emails from unknown senders, as this could direct you to a website containing malware.

2.3. Description of product labeling

The following symbols may be visible in the application or in the documentation:

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Symbol/Text	Meaning		
	Manufacturer's address		
Predigraft v1.18	Device name and version identification		
ī	Consult the user manual		
CE 2797	CE Marking 2797: identification of the notified body		

3. Intended use

Predigraft is a medical device intended to be used as a predictive tool to inform healthcare professionals of the probability of survival of allograft kidney transplants following kidney transplantation. These probabilities, along with available standard clinical data, help describe the condition of the allograft, and provide additional information concerning the patient's care and treatment decisions. Specifically, Predigraft provides probabilities of allograft survival at +3 / +5 / +7 years after evaluation, based on the combination of a set of clinical, biological, and histological parameters.

Predigraft is also intended to be used as a telehealth tool after kidney transplantation to facilitate communication between clinicians and patients by providing a customizable alert system.

Warning: Remote monitoring is not an emergency response system. In the event of a medical problem, patients should contact a healthcare professional or Emergency Medical Services.



3.1. Intended users

The Predigraft solution is intended to be used by:

- Healthcare professionals involved in the treatment and follow-up of kidney
 - transplant patients such as nephrologists, nurses, etc.
- Kidney transplant patients.

3.2. Intended patient population

Patient selection criteria:

- Patient having received a kidney transplant from a living or deceased donor,
- Patient must be at least 18 years old.

3.3. Contraindications

Predigraft cannot be used for the follow-up of patients who have had:

- Previous non-functional kidney transplantation,
- A combined transplant (e.g., kidney heart transplant, kidney liver transplant).
- A transplant within the past month.

4. Operating principle and mode of action

4.1. iBox technology

Predigraft was developed using the "integrative BOX" (iBox) technology. The iBox is a predictive algorithm developed by the Paris Transplant Group (INSERM UMR 970; Principal Investigator: Professor Alexandre LOUPY). The algorithm predicts allograft survival at 3, 5, and 7 years after risk assessment with accurate calibration and discrimination (concordance index 0.81; 95% confidence interval - 0.79 to 0.83). It was developed in a cohort of 4000 kidney transplant patients in France and validated in a cohort of 2129 patients in Europe and a second cohort of 1428 patients in three centers in the United State.



4.2. Mode of action

Predigraft is used as a monitoring/risk assessment tool for kidney transplant patients.

During patient follow-up, the healthcare professional uses Predigraft as a tool to monitor his patients. He or she can collect clinical, biological, and histological information and can be informed about the long-term survival probabilities of allografts. The risk of allograft loss is assessed based on biological parameters used in clinical monitoring during standard care, namely: creatinine (to estimate glomerular filtration rate according to dietary modification in renal disease; unit ml/min/1.73 m2) and urine protein to urine creatinine ratio (unit g/g). A report is generated that helps describe the status of the allograft, thus providing additional information in the patient's care and treatment decision.

Predigraft is also used as a remote monitoring tool after kidney transplantation to facilitate communication between the healthcare professional and the patient by providing a customizable alert system. The patient can send clinical information (blood pressure, weight) and biological information (biological and histological reports) to the healthcare professional.



Le professionnel de santé comprend mieux le risque de perte de greffe du patient

Predigraft rapport (web, mobile)

Création du rapport par le professionnel de santé



5. Technical data/Prerequisites

The Predigraft tool for healthcare professionals is available in SaaS (Software as a Service) mode via the web. It is compatible with devices supporting the following browsers:

Browser	Compatible version
Chrome	≥ Version 81
Firefox	≥ Version 75
Safari	≥ Version 14
Edge	≥ Version 91

Note: An internet connection is required to use Predigraft. The use of Predigraft does not require any training.

6. Authentication/Account creation

When an account is created, the Cibiltech team configures access to the application for two profiles:

- 1. Team owner
- 2. **(Intermediate Section**) Team member

Access rights and functionalities are different for these profiles.

The Cibiltech team creates the "owner" user account and then the team associated with this user. The Cibiltech team creates as many teams as needed. There is one owner per team.



When you subscribe, you will receive a link to the "Reset Password" page via email. On this page, enter your email address to receive a reset link. By clicking on the link from your email, you will be redirected to a page where you can enter your password and a confirmation of the password. You are then connected to the application as the "team owner".

6.2. You are the team member an

The team owner sends an invitation email to members via the Predigraft interface. If you are in the list of users authorized to create an account on Predigraft, you will receive an invitation link by email.

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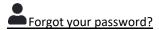


Click on this link to be redirected to the Account Creation page. You must enter your name, email address (identical to the address to which the invitation was received), password, and password confirmation. You are then connected to the application as a "team member".

6.3. You are a Predigraft user (owner/member)

To activate your account (owner or member), you must:

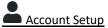
- Confirm your email by clicking on a link sent to you by email,
- Read and accept the General Terms and Conditions of Use (GTCU).



If you have forgotten your password, you can click on "Forgot your password?" on the login page. On the password reset page, enter your email address to receive a reset link. By clicking the link from your email, you will be redirected to a page where you can enter your new password and a confirmation of the password.

Reset Password		or Log in
Enter your email and we'll send you a reset link.		
Email Address		Ð
	Send password reset link	

Warning: Passwords are personal and confidential. They must not be shared with a third party. They are governed by a confidentiality policy.



Once logged in, you can go to your personal space in the "Account" tab. Here, you have the option to update account details, including your name and password.

Account			
Account se	ettings		Change password
Name	Prof. Lorena Jast	la Update	Current password
Email	third.user@example.org		} @
			la 🕲
			Confirm password
			b @
			Update password



7. Team Management

This module allows healthcare professionals to be part of a (hospital) department. The team owner and members have access to the patients of the team or department. The owner and members of the department have access to the Predigraft reports created for each patient in the department. At the time of subscription, the owner will be assigned to a team.

You are a team member

To view the other members of your team, click on your name in the top right corner, click on "My Team" in the drop-down menu, and then click on your team.

On the "Members" page, you can consult the list of team members, including:

- The full name and email address of the member,
- The "owner" badge next to the name of the team owner,
- The "member" badge next to the name of each team member.

Members of team "Rolfson-Skiles"					
Name	Email	Role	Action		
Mr Joesph Feeney I2	first.user@example.org	Owner			
Prof. Lorena Jast	third.user@example.org	Member	👼 Delete		
Manoush M	manon.marault+first@cibiltech.com	Member	💼 Delete		
Manon	manon.thiberge+mbre10@cibiltech.com	Member	🛅 Delete		
ManonMbre11	manon.thiberge+mbre11@cibiltech.com	Member	1 Delete		
Bennie Bergnaum	second.user@example.org	Member	🛅 Delete		

You are the team own

To access the members of your team, click on your name in the top right corner, click on "My Team" in the dropdown menu, and then click on your team.

In the "Invite to the team" section you can:

 Enter the email address of a collaborator and click on "send" to send an invitation email to this user. If the user is already part of another team, you cannot invite him/her to an additional team.

In the "Pending Invitations" section, you can:

- View the email addresses of all collaborators invited join the team,
- Delete the invitation: the invited collaborator will no longer be allowed to create an account on Predigraft and will not be able to join your team.

In the "Members" section, you can consult the list of team members and:

- See the full name and email of the member,
- Click on the "delete" button to remove a member from the list of team
 - members. You cannot remove yourself from the team.

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HCP-1231	manon.thiberge+membre123@cibiltech	.com	Member	Telete
ManonT HCP 1.14	manon.thiberge+HCP@cibiltech.com		Member	🗊 Delete
HCP MT 114	manon.thiberge+hp114@cibiltech.com		Member	I Delete
Pending invitations				
Email		Invitation	Acti	on
elisa.negra+dalida@cibiltech.com		Resend invite		Delete
Invite to team "Rolfson-Skiles"				
Email Address				
	Invite to Team			

8. Patient Management

8.1. Patient file

8.1.1. Creation of a patient file

By clicking on the top right button "new patient", the user can create a new patient.



The following information must be completed in order to create the patient record:

- First name,
- Middle name (optional),
- Last name,
- Sex,
- Date of birth,
- ID (must be unique within a team/department),
- Date of transplant.

Click on "Register this patient". A window appears to confirm the information that will be entered into the patient record. Click "Confirm" to create the patient. Click "Cancel" to make changes to the patient information.

Sex: Fe	emale			
ID: 045				
	5-444-999			
Date c	f birth: Janua	iry 11, 1991		
Date o	f transplant:	July 1, 2020)	

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8.1.2. Modification of a patient file

To edit a patient record, click on the patient from the patient list to access his or her record. Click on "Modify" in the title bar. You can modify the following information in the patient record:

- Administrative data:
 - First name
 - Middle name (optional),
 - Last name,
 - Sex,
 - Date of birth,
 - ID (must be unique within a team/department),
 - Date of transplant.
 - Brief patient description:
 - Description (optional).
 - Patient ID:
 - PPI (Permanent Patient Identifier),
 - NEFG of the recipient,
 - NATT,
 - INS,
 - Clinical Study Identifier.
- Referring doctor,
- Clinical Study:
- Study Name,
- Clinical study identifier,
- Date of inclusion,
- Clinical study arm.

Warning:

- The description field has a limit of 300 characters.
- The IPP field always starts with the number 80 and can contain between 8 and 13 characters.
- The NEFG number field accepts only integer values.
- The NATT number field only accepts integer values.

- The INS number accepts only 15 digits: the first digit can only be 1 or 2 and the 4th and 5th digits can only be between 01 and 12,

- The clinical study field appears in the patient file, only if the service has been added to the study by Cibiltech.

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Administrative data	Patient description Limit of 300 characters
First name :	Description
Birttany	Example: Duration of patient follow-up, referring physician, nephropathy, other pathologies
Middle name :	
B	Save changes
Last name :	
MacLean	Patient identifiers
Sex : © Female O Male	IPP
Date of birth :	INS
January 11, 1991	
ID :	NEFG
045-444-999	
Date of transplant :	NATT 1
July 1, 2020	NATT 2
Save changes	
	Clinical study identifier
Referring HCP	
Add a referring hcp	Save changes
Prof. Lorena Jast	

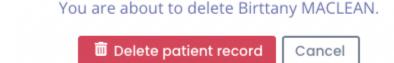
Click on "Save Changes". A window will appear reminding you of the information that will be included in the patient record. Click "Confirm" to apply the changes. Click "Cancel" to continue editing the record. Click on "Save Changes".



8.1.3. Deleting a patient file

To delete a patient record, click on the patient from the patient list to access his or her record. Click on "Modify" in the title bar.

At the bottom of the Edit Patient Record page, click on "Delete". You must confirm the deletion by pressing the "Delete patient" button.



8.1.4. Sharing a patient file

To share a patient record, click on the patient from the list of your patients, you are then redirected to his patient record. Click on the "Share patient record" button located in the header.

Patient : Gustave EIFFEL (098-345-111) ••• Male, 42 years old born on Oct 1, 1979, transplanted on October 7, 2018 (3 years ago)	A patient account exists (manon.marault+eiffel@cibiltech.com)			Edit
	+ Share patient file	🎕 Messaging	Upload a doc	sument

You can then choose the different partner services with which you wish to share your patient's record.

Note: The "Share a patient record" feature must be activated by Cibiltech beforehand. If you want this feature, please contact Cibiltech.

You can also deactivate the sharing of a patient record by clicking on the "Stop sharing" button located on the record sharing page.

Team name	Shared by	Shared at	
Rolfson-Skiles	-	-	Original team
Prohaska, Russel and Frami	Mr Joesph Feeney I2	2021-10-25 07:02:55	Stop sharing

If you receive a shared patient record, you have the option to add the patient to your patient list by clicking on $\stackrel{\bullet}{\uparrow}$.

You can also add or remove referring physicians from your department to the patient that has been shared with you. These doctors will then be able to find this patient directly in their patient list.

Note: If you receive a shared patient record:

- You do not have the possibility to share it again,
- You can search for this patient using the search bar in your patient list,
- You can access all the features of your patient's record, but you cannot communicate with this patient through the messaging system,
- You can modify the alert settings of your department or those specific to a shared patient without them being modified in the department that shared the patient with you,

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- If the department that shared the patient with you changes their department's alerts or patient-specific alerts after they have shared the patient with you, they will not change in your department.

8.2. Managing a patient

Each department has its own patients. The information below is available in the patient file:

- Patient information,
- Messaging,
- Patient alerts,
- Monitoring / Risk Assessment: link to the patient's iBox evaluations,
- Estimated glomerular filtration rate (GFR-e) according to MDRD: graphical display of GFR-e values

(by default),

- Blood pressure: graphical visualization of blood pressure,
- Weight: graphical visualization of weight,
- Biological chart,
- HCP's medical notes,
- Prescriptions,
- Reports,
- Biological analyses,
- Biopsy (histological analysis report),
- DSA,
- Other documents.

emale, 30 years old born on j	an 11, 1991, transplanted on July	1, 2020 (1	year ago)		Se	nd a new confirmat	ion email	
						Messaging	Upload a docur	men
Surveillance / Risk asso	essment	+ New	iBox Evaluation	Medical notes	Prescriptio	ns	Medical report	s
Date Input da	ita 3y	Sy	7у					
une 28, 2021	96 %	94 %	91 %	Save				
Biology table			Show more	3000				_
Day after transplant	2021-06-28	2021-0	9-14	Biology Analyses		Biopsy	DSA	
Time after transplant	11 months	1 year.	2 months	Title		Confirmed by		
Potassium (mmol/L)				Bio9-2.pdf	Pro	f. Lorena Jast		
Creatinine (µmol/L)		104.31		2021-09-14		. corena jase		
Hemoglobin (g/dL)	15.30			Bio4.pdf 2021-07-28	Mr jo	esph Feeney 12		
Polynuclear neutrophils (10^9/L)	4.97							_
Leukocytes (10^9/L)	7.70			Other documents				
Platelets (10^9/L)	182.00							
Protein creatinine ratio (g/g)	10.40				No other documents	uploaded yet.		
Estimated GFR	Blood Pressure		Weight	Immunosuppressive	drugs 0			
100				ininianosuppressive	urugs e			
				No	immunosuppressive	drugs record yet.		
80			- the second					
60			•					
80								
- 40								
20								

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8.2.1. Marking a patient as a starred

In the patient file, this button \square located on the top left allows you to add the patient in the "My patients" list or to remove him from this list.

A full star 🗮: the patient is in the list "My patients".

An empty star $\stackrel{\text{\scriptsize CC}}{\sim}$: the patient is not in the "My patients" list.

Note: Each user has his own "My patients" list. This list belongs to the user and not to the service. It can also be consulted from the "My patients" button in the main menu on the left (see chapter 12 Managing the "My patients" list).

8.2.2. Granting patient access

From each patient record, you can invite a patient to use the Predigraft patient application. Click on the "Create a patient account" button in the title bar.

☆ Patient : Meta V. FAY (669-75-5379) ··· Male, 42 years old born on Nov 12, 1978, transplanted on December 25, 2019 (1 year ago)	Create pati	ent account	Edit
alanda ha Angala na dana ang kanang kanan	🧠 Messaging	Upload a docu	ment
Then fill in the patient's email address.			
New patient account			

		1
createPatientAcco	ount.referringHo	ср
Mr Joesph Fe	eney I2	

The button "Create a patient account" is then replaced by the text "A confirmation email has been sent".



The patient receives an email with the steps to finalize the account creation and confirm the email address. Once

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confirmed, the text "A confirmation email has been sent" is replaced with "The patient has an account" and the corresponding patient email address.

Notes: An error message is displayed when the doctor enters an existing patient email.

To understand the data exchange between the physician interface and the patient interface, see Chapter 14 "Patient Application".

You can send a confirmation email to the patient again if the patient has not received an email. If the patient confirms the email, you cannot change the email address.

8.2.3. Messaging system

You can send messages to your patient through a specialized messaging system. You can access your messaging system from a patient record or from the "Messaging" menu (see the chapter Managing messaging).

From a patient file, click on "Messaging" in the banner of your patient file.



The conversation with your patient is displayed. You can access all the conversations of your patients who have an activated Predigraft account, even those you have never exchanged with before.

You can view only the conversations of your patients in the "My Patients" list by checking the "My Patients" box.

You can display only the unread conversations of your patients by checking the "Unread messages" box.

Note: The "My Patients" filter is enabled by default. The "Unread Messages" filter is disabled by default.

Messaging		Alexis LANGOSH
O My patients O Unread messages		
Alexis LANGOSH New document		
Micheal ÔORDAN or the message sent belo		
RC Ryan COCHRANE		
RS Rosario SPINKA Bonjour, je vais bien merc	0	
RG Roger GERBI or the message sent belo		
HO Helga O'KEEFE New document	0	
CC Coralie LEVY New document		
SV Sachat VERRET		
EII Elizabeth HANE		
MQ Marie QUIGNA	•••	
EC Emeline CHAUVRE New document	•••	
MD Marion DELAVALE New document	0	
GE Gregg EICHMANN New document		
Dillan KSHLERIN New document		Write a message.
Virginia WOLF		

To change the conversation, click on the name of the desired patient. A blue bar will appear on the side, indicating that you are in the conversation.

You can also search for a patient by clicking on the search bar at the top left of your message box.

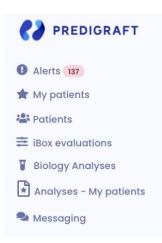


When the patient's name appears in bold, it means that you have an unread message. When you click on it, the patient's name no longer appears in bold.

Note: Conversations are sorted from the most recent message to the oldest.

You can click on the patient's name at the top of the message board to access their patient record.

When one of your patients sends you a message, a red dot in the "Messaging" menu appears. This counter lists the number of unread conversations.



Thus, when you read an initially unread message, the red dot goes down one point.

Warning: If a patient sends you 5 messages, the red dot only considers the unread conversation and not the number of unread messages.

When a patient sends you his blood pressure or a weight, this is not considered as a message. The red dot only considers the sending of messages and documents.

8.2.4. Alerts

Details of the alerts are available in chapter 16 "Alerts" of this document.

8.2.5. Monitoring/Risk Assessment

Date	Input data	Зу	5y	7y
September 16, 2021	5	83 %	74 %	64 %
September 15, 2021	U	98 %	97 %	95 %
September 14, 2021	U.S.	71 %	58 %	44 %
August 16, 2021	U	81 %	72 %	61 %

By clicking on "New iBox Assessment", you can create an iBox assessment.

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The Monitoring/Risk Assessment item lists the patient's iBox assessments. You can click on one of the rows in the list to go to the corresponding iBox assessment.

The date corresponds to the date entered in the first "eGFR" step when the assessment was created.

The data corresponds to:

Biological data. This icon is always present. It corresponds to the report creation steps: 1 and 2 eGFR and proteinuria.

Graft-specific anti-HLA antibody (DSA) data. This icon is present if you entered data in step 3 - DSA when creating the report.

Histology data. This icon is present if you filled in data in step 4 Histology when creating the report.

8.2.6. Clinical data

The "Clinical Data" section consists of:

S

- Your patient's weight,
- Your patient's blood pressure,
- Your patient's heart rate,
- Maximum Expiratory Volume in one second (FEV1),
- Blood glucose,
- Temperature,



By going to this section, you can view the history of these clinical data, add or delete them.

8.2.6.1 Blood pressure

You can view the patient's systolic and diastolic pressures over time.

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You can read the precise data by moving your mouse cursor over the points on the graph.

ressi	on artérielle						
6	Pression Artérielle 130/70 mmHg		Tout	1A	6M	1м 1s	÷
140 -			_				(
80	,						
60	10 Sep		10 Oct	20 Oct systolic	Nov	10 Nov	
istor	ique des donr	nées					
130/7	70 mmHg					23/1	1/2021
120/7	70 mmHg					03/0	9/2021

Note: You also have the option of viewing these values on a graph for a week, a month, 6 months, a year or you can choose to view all your data.

Click on the " 🔮 " button at the top right of your graph to add a blood pressure value at a given date.

Ajouter une valeur de	pression artérielle
Systolique / Diastolique	/ mmHg
Date	
	Annuler Enregistrer

When you move your mouse over the values in the history, a small cross at the top right appears and allows you to delete your data.



8.2.6.2 Weight

You can view the patient's weight over time.

You can read the precise data by passing your mouse cursor over the points on the graph.

oids					
Poids 83.00 kg	Tout	A 6M	ТМ	15	t
80					
60		/			
50					
50 40 10 Sep	Oct 10 0	Oct	Nov 10	0 Nov	
40 10 Sep		oct	Nov 10) Nov	
40		oct	Nov 10		11/2021

Note: You also have the option of viewing these values on a graph at the scale of one week, one month, 6 months, one year or decide to view all your data.

Click on the " [•] " button at the top right of your graph to add a blood pressure value at a given date.

Ajouter un poids	
Poids	kg
Date	
	Annuler Enregistrer

When you move your mouse over the values in the history, a small cross at the top right appears and allows you to delete your data.



Historique des données

78.3 kg	18/08/2021 ⊗
Voulez-vous supprimer cette donnée ?	ANNULER SUPPRIMER
78.3 kg	18/08/2021
78.3 kg	18/08/2021

8.2.6.3 Heart rate

In the "Clinical Data" section you can view your patient's heart rates over time. You can read the data more precisely by passing your mouse cursor over the points on the graph.

Fréqu	ence co	ardiaqu	е				×
	Fréque Cardia		Tout	1A	6М	ТМ	
S	150 BP					15	
210							
180							
150							-•
120					/		
90			•				
60							
	17 Nov	18 Nov	19 Nov	20 Nov	21 No	v 22	Nov
Histor	ique de	es donné	ées				
150 B	врм				22	2/11/202	1, 16:01
89 BF	м				18	3/11/202	1, 16:03
190 E	врм				16	5/11/202	1, 15:02

Note: You also have the possibility to visualize these values on a graph at the scale of one week, one month, 6 months, one year or decide to visualize all your data.

Click on the " 🕙 " button at the top right of your graph to add a heart rate value at a given date.

When you move your mouse over the values in the history, a small cross at the top right appears and allows you to delete your data.

8.2.6.4 Forced expiratory volume in one second (FEV1)

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In the "Clinical Data" section you can view your patient's heart rates over time. You can read the data more precisely by passing your mouse cursor over the points on the graph.

/EMS	5							
Cot	VEMS 4.000		Tout	1A	6М	١м	15	÷
6.0							_	-
5.3								
	•	/						
4.7								
4.0	17 Nov	18 No	v 19	Nov	20 Nov	21 No	/ 22	Nov
	17 Nov				20 Nov	21 Not	/ 22	Nov
	rique de				20 Nov			Nov 21, 16:02
listo	rique de				20 Nov	22	/11/20:	

Note: You also have the possibility to visualize these values on a graph at the scale of one week, one month, 6 months, one year or decide to visualize all your data.

Click on the " ¹ button at the top right of your graph to add a heart rate value at a given date.

When you move your mouse over the values in the history, a small cross at the top right appears and allows you to delete your data.

8.2.6.5 Blood glucose

In the "Clinical Data" section you can view your patient's heart rates over time. You can read the data more precisely by passing your mouse cursor over the points on the graph.



lycémie						
Glycémie 7.000 g/l		14	6M	IM	15	•
7.8				/		Ĩ
7.6			/			
7.4	/	/				
7.2						
7.0 17 Nov 1	8 Nov 19	Nov	20 Nov	21 Nov	22	Nov
storique des	données					
7.000 g/L					11/202 n spécif	
7.000 g/L 8.000 g/L				Nor 22/	n spécif	1, 10:22

Note: You also have the possibility to visualize these values on a graph at the scale of one week, one month, 6 months, one year or decide to visualize all your data.

Click on the " 🕙 " button at the top right of your graph to add a heart rate value at a given date.

When you move your mouse over the values in the history, a small cross at the top right appears and allows you to delete your data.

8.2.6.6 Temperature

In the "Clinical Data" section you can view your patient's heart rates over time. You can read the data more precisely by passing your mouse cursor over the points on the graph.





Note: You also have the possibility to visualize these values on a graph at the scale of one week, one month, 6 months, one year or decide to visualize all your data.

Click on the " [•] " button at the top right of your graph to add a heart rate value at a given date.

When you move your mouse over the values in the history, a small cross at the top right appears and allows you to delete your data.

8.2.7. Mini biological table

From the patient record you can view a mini biological table with seven important data collected from biological analysis reports you have imported:

- Potassium (mmol/L),
- Creatinine (mol/L),
- Hemoglobin (g/dL),
- Polynuclear neutrophils (10^9/L),
- Creatinine protein ratio (g/g),
- Leukocytes (/mm^3),
- Platelets (/mm^3),
- Total bilirubin (µmol/L),
- Conjugated bilirubin (µmol/L)
- ALT (IU/L),
- AST (IU/L),
- Alkaline phosphatase (IU/L),
- Gamma GT (IU/L),
- TP (%).

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8.2.8. Biological table

By clicking on "More" in the mini biological table, you can view all the data collected from biological analysis reports. The entire biological table is composed of different data:

- The date,
- The value filled in with the preview of the biological analysis report next to it,
- The unit of the biological data.

Biology							+ New I	Box Evaluation
Blood Urine								
Day after transplant	2018-02-03	2018-02-03	2020-03-20	2020-03-20	2020-04-08	2020-05-02	2020-05-20	2020-08-02
Time after transplant	1 year, 8 months	1 year, 8 months	3 years, 9 months	3 years, 9 months	3 years, 10 months	3 years, 11 months	3 years, 11 months	4 years, 2 mor
Associated analysis	•	0			0	•	•	o
Glycated hemoglobin (%)								
Glucose (mmol/L)					4.92	6.32	4.55	5.09
Sodium (mmol/L)					136.00	141.00	139.00	141.00
Potassium (mmol/L)					4.28	3.90	4.30	4.80
Total CO2 (mmol/L)					21.40	20.00	25.00	
Protein (g/L)					77.10	71.00	61.00	
Urea (mmol/L)								
Creatinine (µmol/L)						161.80		
eGFR (mL/min/1.73m2)			80.00		105.00	37.00	110.00	86.00
Calcium (mmol/L)					2.23	2.50	2.30	
Phosporus (mmol/L)					0.83	0.71	1.22	
Magnesium (mmol/L)								
Uric acid (µmol/L)								
Total bilirubin (µmol/L)						9.06	9.57	
Conjugated bilirubin (µmol/L)							1.71	
ALAT (UI/L)					10.00	15.00	13.00	18.00
ASAT (UI/L)					16.00	15.00	17.00	32.00
Alkaline phosphatase (UI/L)					124.00	86.00	31.00	
Gamma GT (UI/L)					16.30	18.00	17.00	15.00

Warning: The data "Creatinine" and "Hemoglobin" are important, so they are shown in red on the screen.

In addition, not all the data (blood and urine) from a biological analysis report are present in this biological table. Here are the data that do not appear in the biological table:

- Chloride,
- Amylase,
- Total cholesterol,
- HDL-cholesterol,
- Dihydroxyvitamin D,
- Prothrombin time,
- Ab antibodies,
- HIV,
- HBV,
- HCV,
- PSA (Prostate Specific Antigen),

If you wish to consult only the hematological data, uncheck the box "Urine".

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Tableau biologique			+ Novelle Lobector Roc
Early Date			
Dia	1940K3K3K	824Ch3CT1	MH23R21
minneglations, glyp-de put			
starce printing	22.99		5.00
100U/h-(Milling	101.00		141.00
Pode daw Swind/2	2.95		430
CEI ICUI Invito/Ex	10.41		
Fraider (gL)			
We be (were shift)			
Collectation (provide)			

If you want to see only urine-related data, uncheck the "Blood" box.

Toblecubiologique			+ Heavier in Postantian Use
Diong Crime			
Dułri	1W06/3030	1040,307	6b/CA3CF1
Industry animates (LOPI)			
Nobre del utilitia apla			
Rate prodine ceedime grp		1000	
Of Brone Nervines Brand/D			
Sediare des ornes (ministra)			
Pdate-of-oet university of the			
Homeose des some describ			
Leucogide der umwestmindt			
Mediadope			

If you want to display the evolution of a specific data in a graphical form, click on the line corresponding to the data. The graph is then displayed at the top of the biological table.

abieau biologique			+ Nouvelle Fasturitor B
Repaired de Colonia e Colonia			
		_	
2 / / / / / /	11	1 1 1	1111
/ / / / / / / /	1 1	/ / / 	1111
/ / / / / / / /	and a second	r r r	1 1 1 1
lang ∎anan Kang ∎anan Manan Manan Sana Sana Sana	Fairs, 10 million	6 F F	Talk Title
An and a second se	F.am, 10 Aug	6 F F	Tani, Tinan LOR
An Andrew Constraints of the Andrew Constrai	Tana, Mirinana 2014 12110	6 F F	Faile (1966) 1079 141.00
They is not the second	East, Minas 214 1218 216	6 F F	Tani, Tinan LOR
/ / / / / / hang ==== m	Tana, Mirinana 2014 12110	6 F F	Faile (1966) 1079 141.00

To remove the graph display, you can click on the cross to the right of the graph.

Note: The documents sent by your patient appear in the biological table on the line "associated analysis". If a document is modified, the document in the biological table is also modified. If a document is deleted, the document in the biological table is also deleted.



Simply press the

icon to access the associated analysis.



Biology							+ New I	iBox Evaluatio
Blood 🛛 📕 Urine								
Day after transplant	2018-02-03	2018-02-03	2020-03-20	2020-03-20	2020-04-08	2020-05-02	2020-05-20	2020-08-02
Time after transplant	1 year, 8 months	1 year, 8 months	3 years, 9 months	3 years, 9 months	3 years, 10 months	3 years, 11 months	3 years, 11 months	4 years, 2 (
Associated analysis	•	0			0	•	•	0
Glycated hemoglobin (%)								
Glucose (mmol/L)					4.92	6.32	4.55	5.09
Sodium (mmol/L)					136.00	141.00	139.00	141.00
Potassium (mmol/L)					4.28	3.90	4.30	4.80
Total CO2 (mmol/L)					21.40	20.00	25.00	
Protein (g/L)					77.10	71.00	61.00	
Urea (mmol/L)								
Creatinine (µmol/L)						161.80		
eGFR (mL/min/1.73m2) 0			80.00		105.00	37.00	110.00	86.00
Calcium (mmol/L)					2.23	2.50	2.30	
Phosporus (mmol/L)					0.83	0.71	1.22	
Magnesium (mmol/L)								
Uric acid (µmol/L)								
Total bilirubin (µmol/L)						9.06	9.57	
Conjugated bilirubin (µmol/L)							1.71	
ALAT (UI/L)					10.00	15.00	13.00	18.00
ASAT (UI/L)					16.00	15.00	17.00	32.00
Alkaline phosphatase (UI/L)					124.00	86.00	31.00	
Gamma GT (UI/L)					16.30	18.00	17.00	15.00

8.2.9. Medical notes

You can add medical notes in the patient record with a maximum of 1500 characters.

When you add a medical note, it is saved and displayed in the medical note history below. Each saved note appears with the date it was saved and the name of the person who wrote the note. Each healthcare professional can access the note history for each patient on the same team.

Medical notes	Prescriptions	Medical reports
Save		
	hu De Derf Lessen last	
Note from Sep 14, 2021 - Written	by Dr. Prof. Lorena Jast	
Save Note from Sep 14, 2021 – Written le confirme Note from Sep 14, 2021 – Written		

Please note: Medical notes cannot be shared and remain confidential. Health professionals can only view them on the patient's file.

8.2.10. Prescriptions

You can add prescriptions in the patient record by clicking on "Import a document" in the banner of the patient record, you are then redirected to a new page where you can choose your prescription to import. Select the type of document by checking "Prescription".

You have the possibility to share this file with your patient, to do so check the box "Send to patient". Then click on "Import".

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Upload a new document -	Roger R GERBI (045)	← Back
Choose a file	in my library	
Document type		
Prescription		
O Medical report		
O Biology analysis		
ODSA		
O Biopsy		
O Other document		
Send to patient	Upload	

Note: You can import documents in PDF, jpeg, jpg and png format.

Warning: PDF documents protected by passwords cannot be imported. An error message will be displayed "Cannot read PDF, check that it is not protected by a password".

PDF documents must not exceed 20 MB.

The selected document is displayed on the right.

Upon import, you are redirected to the patient record.

In the list of imported prescriptions, the most recently imported report is at the top of the list. The list contains the following information:

- Date the document was imported,
- Name of the document.

Medical notes	Prescriptions	Medical rep	orts
Bio5.pdf Jul 27, 2021			
Bio2.pdf		↓ Download	
Jul 6, 2021		Send to patient	
PDF Jul 6, 2021		Move	

You can download a prescription or send it to your patient by clicking on the three little dots and selecting "Download" or "Send to patient".

Warning: The "Send to patient" option does not appear if the patient does not have an account, or if the document was imported by your patient. You have the possibility to send only the documents you have imported.

You can also move a prescription by clicking on the three dots and selecting "Move". By choosing this option, you

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can then choose a new category:

- Medical report,
- Biological analysis,
- DSA,
- Biopsy,
- Other documents.

Note: You can view the prescription by clicking on the line of the document you wish to view. The document will then open in another tab.

8.2.11. Medical reports

You can add medical reports in the patient record by clicking on "Import a document" in the banner of the patient record, you are then redirected to a new page where you can choose your report to import. Select the type of document by checking "Medical Report".

You have the possibility to share this file with your patient, to do so check the box "Send to patient". Then click on "Import".

Upload a new document - Coralie LEVY (3847)	← Back
Choose a file in my library	
Document type	
O Prescription	
Medical report	
O Biology analysis	
O DSA	
O Biopsy	
O Other document	
Send to patient Upload	

Note: You can import documents in PDF, jpeg, jpg and png format.

Warning: PDF documents protected by passwords cannot be imported. An error message will be displayed "Cannot read PDF, check that it is not protected by a password".

PDF documents must not exceed 20 MB.

The selected document is displayed on the right.

Upon import, you are redirected to the patient record.

In the list of imported prescriptions, the most recently imported report is at the top of the list. The list contains the following information:

- Date the document was imported,
- Name of the document.

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Medical notes	Prescriptions	Medical rep	orts
Analyse.pdf Jul 27, 2021			
Bio1.pdf Jul 6, 2021		Download Send to patient	
Compte-rendu.pdf Jun 29, 2021		Move	
Ordonnance.pdf Jun 29, 2021			

You can download a report or send it to your patient by clicking on the three small dots and selecting "Download" or "Send to patient".

Please note: The "Send to Patient" option does not appear if the patient does not have an account, or if the document was imported by your patient. You have the option to send only the documents you have imported.

You can also move an order by clicking on the three small dots and selecting "Move". By choosing this option, you can then choose a new category:

- Prescription,
- Biological analysis,
- DSA,
- Biopsy,
- Other documents.

Note: You can view the medical report by clicking on the line of the document you wish to view. The document will then open in another tab.

8.2.12. Biological analysis

You can view the list of biological analysis reports saved in the patient record.

	Biology Analyses	Biopsy	DSA
Title	2	Confirmed by	
	Bio4.pdf 2021-09-17	To confirm	•
	Bio6_page-0002.pdf 2021-09-17	Prof. Lorena Jast	•••
	Bio6_page-0006.pdf 2021-09-17	To confirm	•••

The date is the date the report was saved in the patient record. The title is the title of the report when it was saved. You can see if the document has been confirmed or not:

- In case of non-confirmation, a "To be confirmed" message appears in the "Confirmed by" column,

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- In case of confirmation, the name of the person who confirmed the report appears.

You can delete a biological analysis, provided it has not yet been validated. To do so, click on the three small dots and select "Delete".

You can also download or move the biological analysis by clicking on the three dots and selecting "Download" or "Move". By choosing the option to move a document, you can choose a new category among:

- Prescription,
- Medical report,
- DSA,
- Biopsy,
- Other documents.

You can send a biological analysis to your patient by clicking on the three small dots and selecting "Send to patient".

Please note: The "Send to patient" option does not appear if the patient does not have an account, or if the document was imported by your patient. You can only send documents that you have imported.

	Biology Analyses	Biops	y	DSA
	o6_page-0002.pdf 21-09-17	Confirm Prof. Lore		
	06_page-0006.pdf 21-09-17	To conf	firm	
- 200 C	nalyse.pdf 21-09-17	Тосс	➡ Downloa✓ Send to	
	o-anniv-online.pdf 21-09-17	Prof. Lo	Move	
			Delete	

You can add biological analysis reports by clicking on "Import a document" in the banner of the patient record, you are then redirected to a new page where you can choose your biological analysis document to import. Select the type of document by checking "Biological analysis".

You have the possibility to share this file with your patient, to do so check the box "Send to patient". Then click on "Import".



Upload a ne	w document - Coralie LEVY	(3847)
	•	
	Choose a file in my library	
Document type		
O Prescription		
O Medical rep	ort	
Biology anal	lysis	
O DSA		
O Biopsy		
O Other docum	nent	
Send to patie	ent	Upload

Note: You can import documents in PDF, jpeg, jpg and png format.

Warning: PDF documents protected by passwords cannot be imported. An error message will be displayed "Cannot read PDF, check that it is not password protected".

PDF documents must not exceed 20 MB.

The selected document is displayed on the right.

Bio3.pdf	×	200000			
Or import another d	locument		ABORATOIRE DES ENTRES DE SANTE ET IOPITAUX D'ILE-DE-FRAN	Œ	
Document type		74 Avenu 922 Biologi	DE BIOLOGIE MEDICA 545 4 / HINES ET 92 002 549 5 140 Malakoff 140 Malakoff 1stes : B.MECHAIN		
O Prescription			1 17 43 52 🛋 01 55 58 1		
Medical report		INSTITUT ALFRED FOURNIER Nif : DUPONT	Monsieur D		
		Date de naissance : 01/03/1979 Rendu le :	14 avenue Klé 75016 PARIS	ber	
Biology analysis					
DSA			Prélévement du 03	1/20-4-0008 enregistrée à 0 //11/20 à 08H01 re 2020 à 15:44	7H52
Biopsy			Le 7 novemb	re 2020 a 15:44	
		Hématologie]
Other document		Hématologie		Vieleurs de référence	Antériorités
Other document		Hématologie Hémogramme Hémogramme Hémogramme	(HB), fluorocytométrie en flue (GB, fo		Artériorités
Other document	Upload	Hémogramme System Mattel Hermogramme System Mattel Hit PLAI, systempletaneline	(HB), Russeydamidzie en Rus (GB, fo		Artérisrités
Other document	Upload	Hémogramme System skiztet: Nanura par repélance (DK, HT./UL), spectrephasedere Numération globulaire:		rmule, RET, EA)	Antériorités
Other document	Upload	Hémogramme Brens stattor - Mune gar ingélexe (06, 117, 141, spectrapularisére Numération globulaire: Leucoytes	4,66 an	40 # 10 0	Antériorités
Other document	Upload	Hémogramme Mannetations (Rk. 17)AL yearspectrations Numerations Numerations Numerations Hemoglobins Hemoglobins	4,66 a/i 4,80 7/i 13,5 g/di	40 4 700 43 4 60 120 4 77.5	Artérisrités
Other document	Upload	Hémogramme Interview of the systematic (0, 17,74), second-advice Numération globulaire: Leucorytes Hémoglobine Hémoglobine	4,66 a/i 4,80 T/i 13,5 g/ai 41,0 %	40 4 100 43 4 60 130 4 17.5 390 6 480	Artérisrités
Other document	Upload	Hémogramme Mumération globulaire: Leucocytes Hémates Hemates Hema	4,66 c// 4,80 t// 13,5 g/di 41,0 % 85 n	404 100 404 100 434 60 1204 175 39.04 48.0 80 48.0	Artörisröds
Other document	Upload	Hémogramme Mundration interruptions (R, 17.4), yearsynationer Numfration oglobulare: Leucorytes Hémoglobine Hémoglobine Hémoglobine Hémoglobine Hémoglobine	4,66 a/i 4,80 T/i 13,5 g/ai 41,0 %	4.0 # 10.0 4.0 # 10.0 4.3 # 6.0 13.0 # 17.5 39.0 # 48.0 80 # 48.0 26.0 # 34.0	Artérisrités
Other document	Upload	Hémogramme Mumération globulaire: Leucocytes Hémates Hemates Hema	4,66 c/i 4,80 T/i 13,5 g/di 41,0 % 85 n 28,1 pp	404 100 404 100 434 60 1204 175 39.04 48.0 80 48.0	Arténsetés
Other document	Upload	Hemogramme Hemogramme Mumération globulaire: Leucocytes Hémates H	4,66 an 4,80 tri 13,5 g/d 41,0 % 85 n 28,1 pg 32,9 %	enuie, 827, 84) 40 4 100 43 4 60 120 4 17.5 190 4 480 80 4 58 280 4 340 320 4 350	Artérisrikés
Other document	Upload	Hémogramme Mundration (M. 17.45), secondations Numfration globulare: Hémoglobine Hémoglob	4,66 an 4,80 tri 13,5 g/d 41,0 % 85 n 28,1 pg 32,9 %	enuie, 827, 84) 40 4 100 43 4 60 120 4 17.5 190 4 480 80 4 58 280 4 340 320 4 350	Artérisrités
	Upload	Hémogramme Mumération globulaire: Leucocytes Memates Mumération globulaire: Leucocytes Mémates V.G.M. C.C.M.H. DORCV Formule leucocytaire: Polymudélaires austraphises	4,66 cn 4,80 tn 13,5 s/s 41,0 % 28,1 po 32,9 % 12,6 % 1,79 cn 0,19 cn	40 4 100 40 4 100 43 4 60 120 4 175 360 4 480 86 4 380 260 4 350 300 4 350 0 - 14	Artérisrités
Other document	Upload	Hémogramme Mundration (M. 17.45), secondations Numfration globulare: Hémoglobine Hémoglob	4,66 cn 4,80 tn 13,5 grid 41,0 % 85 n 28,1 po 32,9 % 12,6 %	mule, 857, 58) 40 4 100 43 4 60 130 4 17 5 190 4 4 60 100 4 80 100 4 30 0 100 4 30 0 0 - 14 17 4 70	Arténisrtés

Then click on "Upload" and you will be redirected to a new data validation page.

The data from the biological analysis are analyzed by Predigraft, extracted and grouped into several parts:

- The analysis date,
- A "Blood" part,
- A "Urine" part.

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By default, only the data that have been extracted from the biological report are displayed. To add data in the empty fields, click on "Empty data".

De otte vie grifferent 96.929 m m De otte vie grifferent 0 m	Nom du médicament Posologie journalière Date et heure de la dernière prise	Advagraf° 4mg par jour nc nc		Bio4.pdf		
NUMBE J yr. DEXAMP OF URE NOT DEXAMPLE						
Luc de diles Autor Filles Luciencio dalla Luciencio dalla Luciencio dalla Add VISEI DIFFICUIDES SER ACIUMUNI DI Alcin da la nana magane da anna nagane anna nagane da annagane da ann	TACROLIMUS Interprétation Concentimisions résiduatiles de Tacrolimos Dans les 6 semaines saivant la transplanta	4,8 _{ro} t.	9.2 Le 12.0.3.2019 6,8 Le 64.04.2019			
Ladge status and lange to a loss of the lange and loss of the lange and a loss of the lange an	EX			Filters	Entered data	Empty d
Laboration L	ANALYSES EFFECTUEES SUR ECHANT	ILLON		Analysis date	Y-m-	-d
Model Notes Name Notes	Les dosages urinaires sur échantillons sont à interprêter	en fonction des résultats sangains et du contexte	clinique et thérapostique.			
Image: State Stat	Examena ci-dessona réalisés le 03.06.2020 , validés le 03.06.	2020				
INTRACTION 25 watch 15 25 000000000000000000000000000000000000			859 Le 30.01.2020 726 Le 12.03.2019	Blood		
POID NAME 25 soft 3 3 14 g/g CHORE LENANCE 18 soft 3 3 14000 mmm/g POID NAME * A.B.* soft 3 3 14000 mmm/g POID NAME * A.B.* soft 3 300 mmm/g 1 POID NAME * A.B.* soft soft 3 mmm/g 1		126 mmstt.	73 Le 12.03.2019 62 Le 04.06.2018			
IN UNIC ANALYSIC Sodium 141,00 mmmol/L POTOLINATING 3,90 mmmol/L Design • Kall y • Walk XIII 0.00 mmmol/L Design • Kall y • Walk XIII 0.00 mmmol/L Design • Kall y • Walk XIII 0.00 mmmol/L Design • Kall y • Walk XIII 0.00 mmmol/L Design • Kall y • Walk XIII 0.00 mmmol/L Design • Kall y • Walk XIII 0.00 mmmol/L Design • Kall y • Kall y • Choiride 105,00 mmmol/L Components desaures balaginges de: • Nois le di di 1.979 • Catalum 100,00 mmg/L Collow 100,00 mg/L • Catalum 100,00 mg/L Posporus 22,00 mmg/L • Catalum 5,30 mg/L ALAT 15,00 U • U • U • U	POTASSIUM URINAIRE	25 mmsit.	14 23	Glucose	1,14	g/L
Design Mail <		116 mmit.	56 75 Le 09.06.2017	Sodium	141,00	mmol/L
Privator 20,00 mmol/L Protein 7,00 g Protein 7,00 g Conjectendo d'accesso biologique de: 18,30 mg/L Neirol e 01.01.77 JLAN 18,30 mg/L Protein 37,00 mL/min/L/T Conjectendo d'accesso biologique de: Neirol e 01.01.879 Creatinine Vierol Protein 10,000 mg/L Conjectendo d'accesso biologique de: Phosporus 22,00 Catcium 5,30 mg/L ALAT 15,00 U	Turbidimétrie - Roche (OR) Dépistage		Nigauf Le 30.01.2020 Nigauf Le 12.03.201	Potassium	3,90	mmol/L
Bington Page 4/6 Total CO2 20,00 mmol/L Protein 71,00 g Composements binkgiogen de: Mr BHYDNY BLAN Protein 71,00 g Composements binkgiogen de: Mr BHYDNY BLAN Niccle de BLAI 1979 GGGR 37,00 mL/min/L/37 Composements binkgiogen de: Mr BHYDNY BLAN Niccle de BLAI 1979 Calcium 100,00 mg/L Calcium 100,00 mg/L Total Dillrubin 5,30 mg/L ALAT 15,00 U U U U U			Т	Chloride	105,00	mmol/L
W WII, NDD.XM M DOUVNY, XM B J, OLBEL State DDBID State DDBID			Biologiste	Total CO2	20,00	mmol/L
b j olait Nicol with forward with with a state with a sta			Mr DUPONT JEAN	Protein	71,00	g/
Calcium 100,00 mg/L Phosporus 22,00 mg/L Total bilirubin 5,30 mg/L ALAT 15,00 U		Dr MH. NIDDAM Dr J. OLIEL	5 Bd du Chinchen 45299 MONTARGES	Creatinine	18,30	mg/L
Mr DUFONT JLAN Neio le 01.01.1979 Colclum 100,00 mg/L Phosporus 22,00 mg/L Total bilirubin 5,30 mg/L ALAT 15,00 U	Compterrendu d'exam	sens biologiques des		eGFR	37,00	mL/min/1.73m
Total bilirubin 5,30 mg/L ALAT 15,00 UI	Mr DUPONT JEAN	8-1	Né(e) le 01.03.1979	Calcium	100,00	mg/L
ALAT 15,00 UI				Phosporus	22,00	mg/L
				Total bilirubin	5,30	mg/L
ASAT 15,00 UI				ALAT	15,00	UI/I
				ASAT	15,00	UI/

You can view all the data of the biological analysis that has been extracted on the right side of the biological analysis report. In case of errors, you can modify the fields (value and unit if available) of the test date, blood data and urine data.

If a data can be recorded in several units, the Predigraft reference unit is the first unit in the list.

You can click on "Save" to save all the data of the biological analysis. In case of inconsistent values during saving, an error message appears. For example:

Urine				
Urine sodium	12849	* *	mmol/L	~
Urine potassiur	valeur doit être inf	férieure o	u égale à 1000) .
Uring red blood cells	0000.00		Imi	

If the values are recorded successfully, you are redirected to a biological table (see Chapter 8.2.12. "Biological Table").

When you choose a unit different from the reference unit when extracting the biological data, Predigraft records the data in two ways:

- The value as well as the unit you chose,
- The value converted into the reference unit: this value will be displayed in the biological table (for more information on the reference units of the biological table see Appendix 3 of this Copyright © 2022 Cibiltech



document).

Warning: The data entered in the biological table may differ from the values entered during the extraction due to the choice of the unit.

To modify the values of the extraction of the biological analysis report after recording, from the patient file, click on the corresponding biological analysis report in the list "Biological Analyses". The analysis report opens and you can modify the values.

8.2.13. Biopsy

You can view the list of biopsy reports imported by members of your department.

You can add biopsy reports by clicking on "Import a document" in the patient record banner, you are then redirected to a new page where you can choose your biopsy to import. Select the type of document by checking "Biopsy".

You have the possibility to share this file with your patient, to do so check the box "Send to patient". Then click on "Import".

	A	
	Choose a file in my library	
Document type		
O Prescription		
O Medical report		
O Biology analysis		
O DSA		
Biopsy		
O Other document		

Note: You can import documents in PDF, jpeg, jpg and png format.

Warning: PDF documents protected by passwords cannot be imported. An error message will be displayed "Cannot read PDF, check that it is not password protected".

PDF documents must not exceed 20 MB.

The selected document is displayed on the right.

Upon import, you are redirected to the patient record.

In the list of imported biopsy reports, the most recently imported report is at the top of the list. The list contains the following information:

- Date of the document import,
- Type: histological analysis,
- Name of the document.

You can download a biopsy by clicking on the three small dots and selecting "Download".

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You can also move a biopsy by clicking on the three small dots and selecting "Move". By choosing this option, you can then choose a new category from:

- Prescription,
- Medical report,
- Biological analysis,
- DSA,
- Other documents.

You can send a biopsy to your patient by clicking on the three small dots and selecting "Send to patient".

Please note: The "Send to Patient" option does not appear if the patient does not have an account, or if the document was imported by your patient. You can only send documents that you have imported.

Note: You can view the biopsy by clicking on the line of the document you wish to view. The document will then open in another tab.

Biology Analyses	Biopsy	DSA
Title		
Bio2.pdf Sep 20, 2021		
LAB_REPORT_16_MB.pdf	Download	
Sep 20, 2021	Send to patient	
Last biopsy: Sep 12, 2021	Move	

8.2.14. DSA

You can view the list of DSA reports saved in the patient record.

Biology Analyses	Biopsy	DSA
Title		
AnalyseBio.pdf		
Y AnalyseBio.pdf Jul 27, 2021		
AnalyseBio.pdf Jul 27, 2021		

The date is the date the DSA report was saved in the patient record.

The title is the title of the DSA report when it is saved.

You can add DSA reports by clicking on "Import a document" in the patient record banner, you are then redirected to a new page where you can choose your document to import. Select the type of document by checking "DSA".

You have the possibility to share this file with your patient, to do so check the box "Send to patient".



Upload a new document - Coralie LEVY (3847)

Note: You can import documents in PDF, jpeg, jpg and png format.

Warning: PDF documents protected by passwords cannot be imported. An error message will be displayed "Cannot read PDF, check that it is not password protected".

PDF documents must not exceed 20 MB.

The selected document is displayed on the right.

pload a new document - Coralie LEVY (3847)	← Bac
Bio4.pdf × Or import another document	Image: Constraint of the second se
Document type D Prescription D Medical report	Interpretation The set instantial data between the 3.1 String Link The set in the set of
) Biology analysis Ø DSA Ø Biopsy O Cther document	Longen statutes and kulleting and kulle
] Send to patient Upload	SOCIEMURENARE 126 mmst. 71 Le1283207 42 Le3682307 POTASSIEMURENARE 25 mmst. 14 21 Conductionalm COLORE URENARE 116 mmst. 55 71 Le3682307
	H Salash Sarath PROTEIN/REH Tonastan Sarath Diprintige Pendit Diprintige Pendit Diprintige 0.12 Mark Salash Diprintige 0.12 M
	Fraid MENTZ Biogéne Page 4/6

Then click on "Import", you are redirected to the patient record, you can then view the DSA report.

You can download a DSA report by clicking on the three small dots and selecting "Download". You can also move a DSA report by clicking on the three dots and selecting "Move". By choosing this option, you can then choose a new category from:

- Prescriptions,
- Medical report,
- Biological analysis,
- Biopsy,

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- Other documents.

You can send a DSA report to your patient by clicking on the three small dots and selecting "Send to Patient".

Please note: The "Send to Patient" option does not appear if the patient does not have an account, or if the document was imported by your patient. You can only send documents that you have imported.

Biology Analyses	Biopsy	DSA
Title		
Bio2.pdf Sep 20, 2021		•••
Rapport DSA.pdf	🕁 Download	
Rapport DSA.pdf Sep 20, 2021	Send to patie	
	Move	

Note: You can view the DSA report by clicking on the row of the document you wish to view. The document will then open in another tab.

8.2.15. Other documents

You can add other documents by clicking on "Import a document" in the banner of the patient record, you are then redirected to a new page where you can choose your document to import. Select the type of document by checking "Other document".

You have the possibility to share this file with your patient, to do so check the box "Send to patient".

	Q 4 of 6	-	+	Automatic Zoo	om 🗸	
Bio4.pdf ×	Comissionne Archine Abber (89) Nom du médicament Posologie journalière	Adva dme s	raf' ar jour			
	Date et heure de la dernière prise	nc				
Or import another document	Date et heure de prélèvement	05.06.	2020 nc			
	TACROLIMUS	4,8	rg1.		9,2 Le 12.03.2019	6.8 Le 04.06.201
ument type	Interprétation Concentrations résiduelles de T					
	Dans les 6 semaines saivant la Après cette période : 5 à 15 µg/		μp.L.			
rescription		EXAMI	EN D'	URINES		
Aedical report				Intervalle de référence	Antécéden	BA -
Biology analysis	ANALYSES EFFECTUEES SUR E					
DSA	Les dosages urinaires sur échantillons sont à		des résultats si	anguins et du contexte clinique	e et thérapoutique.	
Biopsy	Etamena ci-dessoua réalisés le 05.06.2020 , valida					
Dther document	CREATININURIE Tech etzy. mendee/isite EMS - Reybe (OR)	920 soit 8,14	mpl. mmoll.		859 Le 30.01.2020	726 Le 12.03.20
ther document	SODIUM URINAIRE	126	mmolt		73 Le 12.03.2019	62 Le 04.06.201
	ISE and ever - Roche (OR)					
Send to patient Upload	POTASSIUM URINAIRE INF indirect - Roche (OR)	25	mmel/L		14	23
opioda	CHLORE URINAIRE	116	mmol/L		56	75 Le 09.06.201
	IIII. inalianut - Rosha (OR)					
	PROTEINURIE Turbidicestris - Roche (DR)					
	Dépistage Dosage	* 0,18		bit 2 0.15	Négatif Le 30.01.2020 0.12	Négatif Le 12.0. 0.10
				4	2	
					1	
					Frank MENTZ Biologiste	



Note: You can import documents in PDF, jpeg, jpg and png format.

Warning: PDF documents protected by passwords cannot be imported. An error message will be displayed "Cannot read PDF, check that it is not protected by a password".

PDF documents must not exceed 20 MB.

The selected document is displayed on the right.

You can upload a document in the "Other Documents" category by clicking on the three small dots and selecting "Download".

You can also move a document by clicking on the three dots and selecting "Move". By choosing this option, you can then choose a new category from:

- Prescription,
- Medical report,
- Biological analysis,
- DSA,
- Biopsy.

You can send a document to your patient by clicking on the three small dots and selecting "Send to patient".

Please note: The "Send to Patient" option does not appear if the patient does not have an account, or if the document was imported by your patient. You can only send documents that you have imported.

0	ther documents		
PDF	Bio6_page-0001.pdf Sep 15, 2021		
	bio-analysis.pdf	↓ Download	
PDF	bio-analysis.pdf Jul 27, 2021	Send to patient	
PDF	Analyse.pdf Jul 27, 2021	Move	•••
PDF	LAB_REPORT_16_MB.pdf Jul 6, 2021		•••

Note: You can view the document by clicking on the line of the document you wish to view. The document will then open in another tab.

9. Biological analysis management



Click on "Biological analysis" in the main menu on the left to view a list of the biological analysis reports you have imported, as well as the biological analysis reports sent by patients in the team via the Patient Application.

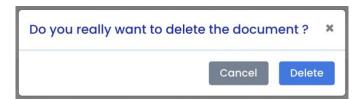
Document nam	Document uploaded	Confirmed by	Patient name	ID	Patient date of transplant	
Bio6_page-0004	pdf September 24, 2021	To confirm	Alexis G. LANGOSH	009-06-2742	Apr 8, 2014	
Bio6_page-0003	pdf September 23, 2021	Prof. Lorena Jast	Micheal ÔORDAN	9876	May 4, 2018	
Bio6_page-0001	pdf September 23, 2021	Prof. Lorena Jast	Micheal ÔORDAN	9876	May 4, 2018	
Bio6_page-0006	pdf September 23, 2021	Prof. Lorena Jast	Roger R GERBI	045	Apr 8, 2020	
to_improve2.pd	September 22, 2021	To confirm	Mary Z.ROWN	495-129-111	Apr 4, 2020	
AB6.pdf	September 22, 2021	To confirm	Mary Z.ROWN	495-129-111	Apr 4, 2020	
AB6.pdf	September 22, 2021	To confirm	Mary Z.ROWN	495-129-111	Apr 4, 2020	
AB6.pdf	September 22, 2021	To confirm	Mary Z.ROWN	495-129-111	Apr 4, 2020	
AB6.pdf	September 22, 2021	To confirm	Mary Z.ROWN	495-129-111	Apr 4, 2020	
Bio2.pdf	September 21, 2021	To confirm	Micheal ÔORDAN	9876	May 4, 2018	

Biological analysis reports are sorted in antechronological order: the most recently imported report appears first.

The list of documents contains the following information:

- A logo indicating whether the biological analysis data has been validated,
- The name of the biological analysis report,
- The date the biological analysis report was received,
- The person who validated the biology report data,
- The patient to whom the Biology Report belongs,
- The patient's ID,
- The patient's transplant date.

You have the possibility to delete a biological analysis from this list by clicking on the cross on the right. A confirmation window appears.



10. Management of biological analyses in "My Patients" list

Click on "Analysis - My Patients" in the main menu on the left to display the list of bioanalysis reports from your "My Patients" list that you have imported, as well as the bioanalysis reports sent by patients from your "My

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Patients" list via the patient application.

Biology analyses sent by My patients						
Document name	Document uploaded	Confirmed by	Patient name	ID	Patient date of transplant	
asemn-gwc4d.pdf	September 20, 2021	To confirm	Roger R GERBI	045	Apr 8, 2020	×
Bio9-2.pdf	September 20, 2021	To confirm	Roger R GERBI	045	Apr 8, 2020	×
Analyses-bio-1p-97ko.pdf	September 20, 2021	To confirm	Roger R GERBI	045	Apr 8, 2020	×
AnalyseBio.pdf	September 20, 2021	To confirm	Roger R GERBI	045	Apr 8, 2020	×
Résultats d_analyses biologiques - Cibiltech.pdf	September 20, 2021	To confirm	Roger R GERBI	045	Apr 8, 2020	×
LAB_REPORT_23_MB.pdf	September 17, 2021	To confirm	Roger R GERBI	045	Apr 8, 2020	×
Bio6_page-0001.pdf	September 17, 2021	To confirm	Roger R GERBI	045	Apr 8, 2020	×
Bio6_page-0005.pdf	September 17, 2021	To confirm	Roger R GERBI	045	Apr 8, 2020	×
Bio6_page-0003.pdf	September 17, 2021	To confirm	Roger R GERBI	045	Apr 8, 2020	×
asemn-gwc4d.pdf	September 17, 2021	To confirm	Roger R GERBI	045	Apr 8, 2020	×
	c 1	2 ,				

The biological analyses reports are sorted in antechronological order: the most recently imported report appears first.

The document list contains the following information:

- The name of the biological analysis report,
- The date of receipt of the biological analysis report,
- The person who validated the data in the Biology Report,
- The patient to whom the Biology Report belongs,
- The patient's ID,
- The patient's transplant date.

You have the possibility to delete a biological analysis from this list by clicking on the cross on the right. A confirmation window appears.



11. Patient list management

Click on "Patients" in the main menu on the left to view a list of patients in the team/department. The list contains the following information:

- A clickable star to add the patient to the list of favorites,
- Patient's full name and a badge indicating whether the patient has an alert,
- Patient's date of birth,
- Patient ID,
- Last evaluation date (indicated in Step 2, eGFR when creating a Predigraft report),
- Date of transplant,
- Patient account (if the account is activated, pending or not invited),
- Date of creation of the patient file.

When the page loads, the list is ordered by the last evaluation date column.

QR	echercher					Patients favoris 🏠	10 💠
2.0	Nom 🗘	Date de naissance 🌻	ID 0	Dernière évaluation *	Date de transplantation 🗘	Temps après Tx 🗘	Créé le 🗘
*	Theodora T. Schimmel	10 août 1971	847-73-3688	5 oct. 2020	29 juil. 2014	6 ans	9 oct. 202
☆	Rhiannon J. Hilpert	11 avr. 1964	591-27-8951	25 sept. 2020	19 juin 2020	3 mois	9 oct. 202
ŵ	Okey Q. DuBuque	1 août 1967	882-78-3476	21 sept. 2020	3 déc. 2018	1 an	9 oct. 202
ŵ	Glen Z. Hills	10 août 1969	168-29-6537	13 sept. 2020	28 janv. 2020	8 mois	9 oct. 202
ŵ	Stacy X. Stokes	13 juil. 1956	879-12-3362	31 août 2020	17 juin 2013	7 ans	9 oct. 202
ŝ	Althea Q. Muller	2 juin 1973	450-98-7831	26 août 2020	5 juil. 2020	3 mois	9 oct. 202
ŵ	Candace E. Kihn	14 oct. 1964	373-23-3998	8 août 2020	3 avr. 2020	6 mois	9 oct. 202
ŵ	Eleazar J. Kuphal	24 mars 1977	849-18-8748	15 juil. 2020	14 juil. 2019	1 an	9 oct. 202
ŝ	Jameson D. Osinski	22 janv. 1970	826-29-9882	16 juin 2020	7 nov. 2018	1 an	9 oct. 202
Â	Trenton A. Lindgren	28 août 1966	536-16-8870	12 juin 2020	29 déc. 2019	9 mois	9 oct. 202

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11.1. Search options:

In the search field, you can enter:

- All or part of the patient's name,
- All or part of an ID,
- A date (corresponding to the columns "Last evaluation", "Transplant date", "Created on") in the format dd/mm/yyyy or /mm or /yyyy.

The list of patients corresponding to the entry is displayed by pressing the "Enter" key on your keyboard.

Note: The search function does not apply to the "Time after Tx" column.

11.2. List of favorites:

From the patient list, click on $\stackrel{\text{formula}}{\longrightarrow}$ to add the patient to your favorites. Click on $\stackrel{\text{formula}}{\longrightarrow}$ to remove the patient from the favorites.

Click on \bigstar My patients to display the list of patients saved in the favorites list.

11.3. Display filter:

Click the scroll box on the top right $10 \div$ to change the number of patients displayed on a page.

You can display 10, 25, 50, or 100 patients.

Q F	echercher					Patients favoris 🚖	10 \$
2.0	Nom \$	Date de naissance 🗘	ID 0	Dernière évaluation *	Date de transplantation 🕸	Temps après Tx 🗘	Créé le 🕴
*	Theodora T. Schimmel	10 août 1971	847-73-3688	5 oct. 2020	29 juil. 2014	6 ans	9 oct. 202
*	Carleton A. Gislason	4 sept. 1973	801-62-7750	24 déc. 2019	6 nov. 2014	5 ans	9 oct. 20.
*	Alessandro G. McCullough	26 juil. 1980	161-11-6771	23 oct. 2019	6 mai 2012	8 ans	9 oct. 20
*	Isaiah V. Rath	4 janv. 1978	857-05-2042	15 sept. 2018	8 juin 2017	3 ans	9 oct. 20
*	Woodrow H. Leannon	20 oct. 1952	428-60-5016	26 août 2018	14 déc. 2016	3 ans	9 oct. 20
*	Ozella F. Cummerata	12 janv. 1969	598-15-1010	25 avr. 2018	16 oct. 2010	9 ans	9 oct. 20
*	Edwina G. Batz	3 mai 1953	608-80-0622	16 juin 2017	1 sept. 2011	9 ans	9 oct. 20
*	Lexie G. Lynch	11 mai 1980	467-67-5323	30 avr. 2017	8 août 2016	4 ans	9 oct. 20
*	Sandra V. Douglas	6 juil. 1957	743-40-3428	18 janv. 2017	2 oct. 2014	6 ans	9 oct. 20
*	Agustina O. Macejkovic	27 janv. 1956	017-99-9228	29 déc. 2015	25 août 2015	5 ans	9 oct. 20

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11.4. Order the list:

Click on the column header to change whether the list is displayed in ascending or descending order. Click a second time to order in the opposite way.

Example: Order names in ascending alphabetical order.

Q R	echercher					Patients favoris 🏠	10 :
•	Nom +	Date de naissance 🗘	ID 0	Dernière évaluation 🗘	Date de transplantation 🗘	Temps après Tx 🗘	Créé le
*	Edwina G. Batz	3 mai 1953	608-80-0622	16 juin 2017	1 sept. 2011	9 ans	9 oct. 20
â	Talon V. Beahan	1 août 1970	196-08-9346	1 juil. 2016	3 mars 2012	8 ans	9 oct. 20
¢	Reinhold E. Beatty	3 mai 1980	241-55-4720		19 juin 2015	5 ans	9 oct. 20
ŵ	Kiana G. Beer	24 juil. 1968	448-73-3918	1 juil. 2015	31 déc. 2014	5 ans	9 oct. 20
à	Andres S. Block	21 mai 1979	204-36-3503	10 sept. 2019	30 juin 2017	3 ans	9 oct. 20
۲. C	Jayme L. Breitenberg	27 juil. 1959	880-69-7722	22 août 2015	23 janv. 2011	9 ans	9 oct. 20
۵	Kaia Z. Carroll	28 juin 1966	385-51-2830	7 janv. 2019	12 août 2011	9 ans	9 oct. 20
۵	Kevon M. Champlin	2 févr. 1966	838-40-0339	17 déc. 2016	18 oct. 2013	6 ans	9 oct. 20
ŵ	Alexandrea Q. Cole	12 févr. 1972	679-30-4964	14 août 2016	7 avr. 2016	4 ans	9 oct. 20
4	Elliot D. Cruickshank	24 juin 1975	720-81-5659	15 févr. 2017	29 déc. 2015	4 ans	9 oct. 20

A second click on the Name column allows you to order the list in descending order.

11.5. Browse the list:

To browse the list, click on one of the numbers, "Previous" or "Next" from the list.





12. Managing the "My Patients" list

Click on "My Patients" in the main menu on the left to display the list of patients with 📩 . The list contains the following information:

- Clickable star to remove the patient from the "My Patients" list,
- Patient's full name,
- Patient's date of birth,
- Patient's ID number,
- Last date of assessment (most recent date of step 2, eGFR when creating an iBox assessment),
- Date of transplantation,
- Patient account (if the account is activated, pending or not invited),
- Date of creation of the patient record.

My patients

	Name 🌣	Date of Birth 单	ID ©	Latest evaluation *	Date of transplant 🗘	Patient account 🏺	Created \$
	Nume +	Duce of Dirtit v		Latest evaluation -	Duce of dansplane +	rutent account +	created +
ł	Roger R GERBI	Jun 28, 1950	045	Sep 20, 2021	Apr 8, 2020	Activated	Apr 28, 2021
ł	Floriane DÙMÀNÈÉÏÔÊÑ	Oct 10, 1996	8493	Sep 3, 2021	Sep 4, 2014	Pending	Sep 14, 2021
ł	Birttany MACLEAN	Jan 11, 1991	045-444-999	Jun 28, 2021	Jul 1, 2020	Pending	Jul 28, 2021
ł	Sunny O. ABERNATHY	Oct 24, 1969	895-44-0241	Nov 6, 2020	Nov 14, 2015	Activated	Dec 18, 2020
ł	Oma F. REINGER	Mar 31, 1967	271-25-4043	May 13, 2020	May 28, 2016	Activated	Dec 18, 2020
r	Lucas Luc LEF	May 8, 1990	12345678	Apr 8, 2020	May 6, 2018	Pending	May 11, 2021

Note: As soon as some of your patients are added to this list, you will be automatically redirected to this list when you connect to Predigraft.

12.1. Display filter

Click on to change the number of patients displayed on a page. You can display 10, 25, 50 or 100 patients.

12.2. Ordering the list

Click on the column header to change the display order, ascending or descending, of the list.

Example: Order the names in ascending order.

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2							10 \$
	Nom 🛎	Date de naissance 🌲	ID \$	Dernière évaluation 🗘	Date de transplantation \$	Compte patient \$	Créé 🗘
ł.	Sunny O. ABERNATHY	24 oct. 1969	895-44-0241	6 nov. 2020	14 nov. 2015	Activé	18 déc. 2020
K.	Ryan COCHRANE	28 juil. 1980	045-222-056	25 oct. 2021	2 juil. 2019	Activé	28 juil. 2021
ł.	Floriane DÙMÀNÈÉIÔÊÑ	10 oct. 1996	8493	3 sept. 2021	4 sept. 2014	En attente	14 sept. 202
	Franklin LATORTURE	9 oct. 1996	dsjfqlkjmfksqjdfmlsqj	13 oct. 2021	1 oct. 2020	Activé	27 oct. 2021
ŕ	Lucas Luc LEF	8 mai 1990	12345678	8 avr. 2020	6 mai 2018	En attente	11 mai 2021
ť	Coralie LEVY	24 juil. 1995	3847	16 sept. 2021	2 juin 2016	Activé	10 juin 2021
ł	Birttany MACLEAN	11 janv. 1991	045-444-999	28 juin 2021	1 juil. 2020	En attente	28 juil. 2021
ł	Micheal ÔORDAN	4 mai 1974	9876	25 oct. 2021	4 mai 2019	Activé	12 mai 2021
	1 Oma F. REINGER	31 mars 1967	271-25-4043	13 mai 2020	28 mai 2016	Activé	18 déc. 202

A second click on the Name column allows you to order the list in descending order.

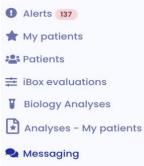
12.3. Browse the list

To browse the list, click on one of the numbers, "Previous" or "Next".

Previous	1	2	3	4	5	6	 21	Next

13. Messaging system management

You can also access the messaging system from the "Messaging" menu. Click on "Messaging" in the menu on the left.



When one of your patients sends you a message, a red dot in the "Messaging" menu appears. This counter lists the number of unread conversations of your patients in the "My Patients" list. A second blue counter appears in each of your unread conversations and allows you to know the number of unread messages per conversation.

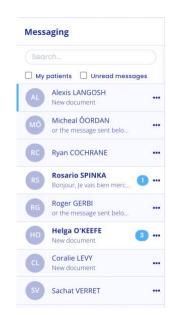
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So, when you read an initially unread conversation, the red dot goes down one point.

Warning: If a patient sends you 5 messages, the red dot only takes into account the number of unread conversations of your patients (part of the "My Patients" list) and not the number of unread messages per conversation. Unread messages per conversation will be indicated by a blue dot next to the conversation.

Adding a weight or blood pressure by your patient is not considered a notification. The red dot is therefore only triggered by a new message or document sent by your patient.



The most recent conversation is displayed. You can access all the conversations of your patients with an activated Predigraft account, even those with whom you have never exchanged before.

You can view only the conversations of your patients in the "My Patients" list by checking the "My Patients" box.

Note: The "My Patients" filter is enabled by default.



Messaging	Alexis LANGOSH
Search	
AL Alexis LANGOSH New document	2021-09-24 - 3:31 pm
Mô Micheal ÔORDAN or the message sent belo	
RC Ryan COCHRANE	
Rosario SPINKA Bonjour, Je vais bien merc	
RG Roger GERBI or the message sent belo	
HO Helga O'KEEFE New document 3 ···	
CL Coralie LEVY New document	
SV Sachat VERRET	Write a message

To change the conversation, click on the name of the desired patient. A blue bar will appear on the side indicating that you are on the conversation.

You can also search for a patient by clicking on the search bar at the top left of your mailbox.

When the patient's name appears in bold, it means that you have an unread message. When you click on it, the patient's name no longer appears in bold.

Note: Conversations are sorted from the most recent message to the oldest.

Note: You can view a document by clicking on the icon of the document you wish to view. The document will open in a new tab.



14. Report generation

To create a Predigraft report select a patient from the list to open his or her record.

If your patient has an account on the Predigraft patient application and has sent biology documents or if you have imported biology documents, you can view one of these documents from the patient record, in the "Analysis reports" item, click on the document you want to view.

To generate a new iBox assessment, click on the "New iBox Assessment" button in the Monitoring/Risk Assessment item. This will take you to the "New iBox Assessment" page.



You can also generate a new iBox evaluation from the biological table. To do so, click on "Biological Table" and then on the "New iBox Evaluation" button located at the top right of the table.

Alexis G. LANGOSH (009-06-2742) emale, 58 years old born on Aug 24, 1963, transplanted on April 8, 2014 (7 years ago) ← Bock										
Biology + New iBox Evaluation										
Blood Urine Day after transplant	2020-09-27	2020-10-18	2020-11-27	2020-12-02	2020-12-03	2020-12-07				
Time after transplant	6 years, 5 months	6 years, 6 months	6 years, 7 month							
Associated analysis										

14.1. Creating a report

Fill out all required fields in the form in order to proceed to the next step.

- 1. Estimated glomerular filtration flow rate value (eGFR)
- 2. Proteinuria value
- 3. DSA value if available, if not check "Not available".
- 4. Histology information if available, if not check "Not available".

If you have chosen to create an iBox assessment for a patient who does not have imported biology reports, click "Not Available" in the drop-down list :

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For steps 1 and 2, you can fill in the following patient information:

- GFR-e,
- Proteinuria.

For step 3, you fill in the patient's DSA information. If you do not have this information, you can check the "Not available" box.

For step 4, you can click in the empty field on the left side of the report creation if you want to import a histology report from your computer and view it next to the form. You can save the histology report to the patient record. Then you can fill in the patient's histology information. If you do not have this information, you can check the "Not available" box.

If you chose to create an iBox evaluation for a patient who has imported biology reports:

For steps 1 and 2, the biological analysis document displays on the left side of the report creation. You can fill in the following patient information:

- GFR-e,
- Proteinuria.

Warning: The biological analysis report with the most recent date is displayed by default. To choose another report, please click on the arrow, a drop-down menu appears with all the biological analysis reports related to the patient.

Note: The biological analysis reports that you can display are the reports for which the data extracted at the import have been validated. If you have validated the following data, it will already be pre-populated automatically during steps 1 and 2 of the iBox assessment creation:

- GFR date,
- The estimated GFR,
- The creatinine level in the blood,
- Proteinuria date,
- Protein to creatinine ratio in urine,
- The creatinine level in urine,
- Protein level in urine.

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New iBox Evaluation		Male , 71 years old bor	Roger R. Gerbi (045 n on June 28, 1950, transplanted on April 8, 202 ← Bock to patient file
1	2	3	
Estimated GFR	Proteinuria	DSA	Histology
		Choose a document Bio6_page-0006.pdf - September 23, 2021 Is eGFR available? (estimated according to the Creatinine	₩DRD equation) ○ Yes ⑧ No
and a second sec	Barrier Marcola Barrier Marcola Team Sea Sea Sea	5.00	● µmol/L 🔿 mg/dL
	Terra Mara e Mara Mara Mara Mara Mara Mar	Date of creatinine analysis	
	eren 2 1 en eren 2 1 en eren 2	September 23, 2021	
		The estimated GFR is greater than 500 mL/min/	1,73m².

For step 3, you fill in the DSA information you have about the patient. If you do not have this information, you can check the "Not available" box.

For step 4, you can click in the empty field on the left side of the report creation if you want to import a histology report from your computer and view it next to the form. You can save the histology report to the patient record. Then you can fill in the patient's histology information. If you do not have this information, you can check the "Not available" box.

• Dates

The dates of steps 1, 2, 3 and 4 are mandatory. They cannot be earlier than the date of transplantation. In order to help you enter this information, you have access to a calendar where you can click on the corresponding date:

During the 1st step, you can click on:

- A date on the calendar,
 - The "Today" button.

Date o	f cre	atinir	ne an	alysi	S							
23/	23/09/2021											
4	:	Septe	mber	2021		÷	0 mL/min/1,73m².					
Mon	Tue	Wed	Thu	Fri	Sat	Sun						
		1	2	3	4	5						
6	7	8	9	10	11	12						
13	14	15	16	17	18	19						
20	21	22	23	24	25	26						
			30									
			Today									



In steps 2, 3 and 4, you can click on:

- A date on the calendar,
- The "Today" button,
- The "Date of GFR/creatinine" button (date of the 1st step).

Date of proteinuria estimation													
	23/09/2021												
	4	September 2021											
	Mon	Tue	Wed	Thu	Fri	Sat	Sun						
			1	2	3	4	5						
	6	7	8	9	10	11	12						
	13	14	15	16	17	18	19						
	20	21	22	23	24	25	26						
	T	oday		Date of	feGFR	/creat							

The following screenshots show the necessary steps to create a report without viewing biological analysis reports.



Title banner	The title banner is ava	ilable on all report	creation pages.	
	New iBox Evaluation	Fe	emale, 54 years old born on August 25, 1967	Laurence Bronzini (2605) 7, transplanted on September 1, 2019 ← Back to patient file
	You will see the follow	ving patient inform	ation:	
	- Name,			
	- ID,			
	- Sex,			
	- Age and date	of birth,		
	- Date of trans	plant.		
1) Estimated glomerular filtration rate value (eGFR)	you that the iBox calcu Warning message: 120mL/min/1.73m ² ? mL/min/1.73m ² ." Error message: "The e	ulation will be don "Are you sure The iBox calcu	en 0 and 500. Above 124 e with a GFR equal to 12 e that the estimate lation will use a G t be between 0 and 500 3 DSA Choose a document Not Available? (estimated according to the A Date of eGR analysis Select 0 date Value of GFR estimated by the MDRD equation From 0 to 500	0. d GFR is above iFR equal to 120
				Previous Next/
				Previous Next
	Option 2:			



Estimated GFR	Proteinuria		
		DSA	Histology
	Ì	Creatinine	♥ RD equation) ○ Yes ● No ● µmol/L ○ mg/at
		Select a date	Previous Next
Creatinine value is limite Error message: "Creatin	ed: ine value must be	between 1 and 1300 μ	
equation" or if GFR is mL/min/1.73m ² from estimated GFR equal to Error message: "The est	between 120 and MDRD equation. 120 mL/min/1.73 Simated GFR is greated to the second se	nd 500: "Estimated G The iBox calculatior m ² ." ater than 500 mL/min/	iFR is <value> n will use an 1.73m²."</value>
Notes:			
cases. - The limit of 12 established bec expected surviv	0 mL/min/1.73m ² cause the calcula al benefit at 3, 5	for calculating the if tion of iBox probabi	Box score was lities and the
mL/min/1.73m ²			
	Creatinine value is limit Error message: "Creatin Error message: "Creatin GFR is calculated: Success message: "Est equation" or if GFR is mL/min/1.73m ² from estimated GFR equal to Error message: "The est Error message: "The est Notes: - The upper limit cases. - The limit of 12 established bed expected surviv mL/min/1.73m ²	Creatinine value is limited: Error message: "Creatinine value must be Error message: "Creatinine value must be GFR is calculated: Success message: "Estimated GFR is <v equation" or if GFR is between 120 at mL/min/1.73m² from MDRD equation. estimated GFR equal to 120 mL/min/1.73m Error message: "The estimated GFR is great Error message: "The estimated GFR is less Notes: - The upper limit of 500 mL/min/1 cases. - The limit of 120 mL/min/1.73m² established because the calcula expected survival benefit at 3, 5 mL/min/1.73m².</v 	Fredigraft applies the MDRD formula from creatinine. Creatinine value is limited: Error message: "Creatinine value must be between 1 and 1300 µ Error message: "Creatinine value must be between 0.02 and 33.5 GFR is calculated: Success message: "Estimated GFR is <value> mL/min/1.73m equation" or if GFR is between 120 and 500: "Estimated GFM mL/min/1.73m² from MDRD equation. The iBox calculation estimated GFR equal to 120 mL/min/1.73m²." Error message: "The estimated GFR is greater than 500 mL/min/1.73m Notes: The upper limit of 500 mL/min/1.73m² exists to accour cases. The limit of 120 mL/min/1.73m² for calculating the iB established because the calculation of iBox probabi expected survival benefit at 3, 5, 7 years are unchang mL/min/1.73m².</value>

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Estimated GFR	2 Proteinuria	3 DSA	(4) Histology
-		Are either the urine protein/creatinine ratio in g/r * Yes O No Date of proteinuria Select a date Proteinuria value From 0 to 12	g or a 24 hour collection available?
The proteinuria value s Error message: Proteinu Option 2:			Previous Next



5 Estimated GER	Proteinuria	(3) DSA	(4) Histology
	- Foculture		in actively
		Are either the urine protein/creatinine ratio in O Yes 🔹 No	g/g or a 24 hour collection available?
_		Urine protein	
			® g/L ⊖ mg/L
Ľ.		Urine creatinine	® mmol/L ○ mg/L
		Date of proteinuria estimation	
		Select a date	
			Previous Next
Predigraft calculates pr Urine protein is limited Error message: "Proteinuria value mus between 0 and 30000 r Urine creatinine is limit Error message: "Creatinine value must between 0 and 3959.27	: st be between 0 ann mg/L." ted: be between 0 and	nd 30 g/L." or "Prote	einuria value must be
Ratio is calculated: Success message: "The Error message: "Protein Error message: "Protein	n/creatinine ratio ir	n urine must not exce	eed 12 g/g."
Note on proteinuria da Predigraft recommende Warning message: "Th than the recommended Error message: "The tir days".	s measuring GFR ar e time between th d 15 days."	e estimated GFR and	d proteinuria is longer



3) DSA value	Option 1:			
	1 Estimated GFR	2 Proteinuria	3 DSA	4 Histology
		DSA status ® Quantitative		-
		Qualitative Not available		
		Date of DSA Select a date		
		Anti-HLA DSA MFI From 0 to 20000		
				Previous
	The anti-HLA antibod	y value should be betwee	n 0 and 20000.	



	Error message: "The	e MFI must be betweer	0 and 20000."	
	Option 2:			
	1 Estimated GFR	2 Proteinuria	3 DSA	4 Histology
		DSA status Quantitative Quantitative Quantitative Not available Date of DSA Select a date Binary DSA Presence Absence		
	"Presence" or "Abs	ence" must be selected		Previous Next
	Option 3:			
	Estimated GFR	2 Proteinuria	3 DSA	4 Histology
		DSA status Quantitative Qualitative Not available		Previous Next
	Warning Message:	ends measuring GFR he estimated GFR and D		
	-	e estimated GFR and DSA	is more than 4 months.	
4) Histology informati on		istology report to view t in the patient record.	it. Once the histology	report is visible, you



		0	
Estimated GFR	Proteinuria	DSA	Histology
Upload histolo	gy report	Histology Status Banff Scores Available Diagnosis Available Not available Date of biopsy Select a date	
		Glomerulitis (g score)	0 0 0 1 0 2 0 3
		Peritubular capillaritis (ptc score)	00 01 02 03
		Interstitial inflammation (i score)	00 01 02 03
		Tubulitis (t score)	0 0 0 1 0 2 0 3
		Transplant Glomerulopathy (cg score)	00 01 02 03
		Interstitial fibrosis tubular atrophy (IFTA score)	0 0 0 1 0 2 0 3
			Previous Create report
A value of "0", "1", "2" Option 2:		selected for each Banff sc	ore.
	2		4
Estimated GFR	2 Proteinuria	3 DSA	4 Histology
Estimated GFR	Proteinuria		
	Proteinuria	DSA Histology Status Bandi Scores Available Diagnosis Available Date of biopsy Select a date Diagnosis I cell-mediated rejection C cell-mediated rejection Becurrence of nephropathy (giomerulopathy_) Catcineurin-inhibitor tasietty Catcineurin-inhibitor tasietty	



êinurie DSA	DFG Estimé	Paramètres Cliniques
Résultat Histologique Scores de Banf disponibles Diagnostic disponible Non disponible	rapport d'histologie	

Predigraft selects the iBox algorithmic model corresponding to the input data. The "Create Report" button checks the input data for errors. The generated iBox evaluation contains the results of the iBox algorithm calculation: survival probability at 3, 5 and 7 years post evaluation date (date of step 1).

14.2. Visualization of results

The title banner recalls the patient's name, the date of evaluation (date of step 1) GFR-e), the patient's date of transplantation.



You can print the Predigraft report by clicking on "Print". If you created the iBox evaluation by previewing a biological analysis report, you can download the biological analysis report.

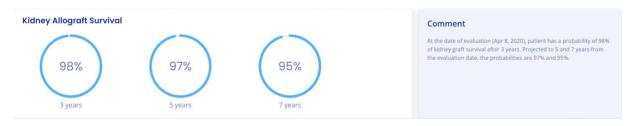
You can delete the report by clicking on "Delete" and specifying the reason in the confirmation window that appears:

- Incorrect data,
- The record is for a different patient,
- The report is a duplicate.

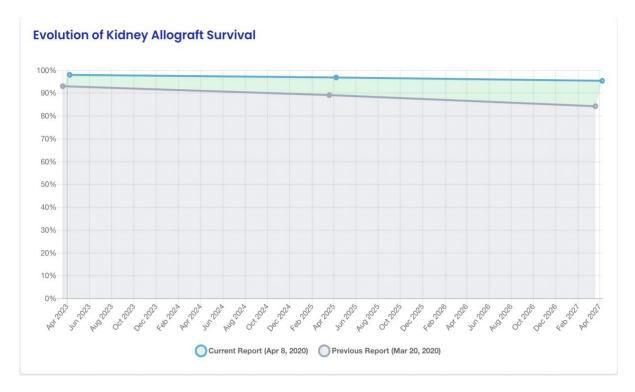
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You can visualize the results of the iBox calculation: the probability of kidney graft survival projected at 3 years, 5 years, and 7 years from the evaluation date. The "comments" panel describes the probabilities.



You can view the iBox results of the current report compared to the results of the most recent previous report. The comment panel describes whether the survival probabilities are better or worse since the previous report.



You can visualize the input data that were used to generate the report: date and value for each step of the report creation (Clinical Parameters, Estimated GFR, Proteinuria, DSA, Histology). In the Comment panel, you can find the probability of agreement of the iBox model based on the input data (C-stat). Click on the "publication" link to access the Paris Transplant Group publication about the iBox.



Input data			
ESTIMATED GFR		HISTOLOGY	
eGFR	80.0 mL/min/1,73m ²	Not Available	
Date of eGFR	Mar 20, 2020		
PROTEINURIA			
Proteinuria	9 g/g of creatinine		
Date of prot.	Apr 2, 2020		
DSA			
Not Available			

14.3. Automatic iBox generation

You have the possibility to create iBox assessments manually, but also automatically. Indeed, the score of the iBox algorithm being calculated thanks to the proteinuria and the GFR, the calculation can be done automatically by the MDRD equation.

Thus, for each new biological report containing urine creatinine and urine protein or for each new proteinuria value that you will enter on your patient's chart, a new iBox report will be created automatically, only if an estimated GFR value is already present on your patient's chart and is less than one month old.

Similarly, for each new creatinine or estimated GFR value added to your patient's record, a new iBox report will be created automatically, only if a proteinuria value is already present on your patient's record and is less than one month old.

Note: Each report will be displayed in the same place as the manually created reports and in case of several new data, several reports will be generated the same day.

15. Managing the list of reports

Click on "Predigraft Reports" on the left sidebar to view a list of reports for all patients in the team/department. The list contains the following information:

- Report: report of <full name of patient> (born on <patient date of birth>),
- Evaluation date: date of step 2) "Estimated GFR" when creating the report,
- Time after Tx: the time between transplant date and evaluation date,
- 3 years, 5 years, 7 years: the probability of renal graft survival at 3 years, 5 years, and 7 years after the evaluation date,
- Created on: the date the report was created.

When the page loads, the list is automatically ordered by the Evaluation Date column.

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iBox evaluations						
Q Search						10 \$
Report 🗇	Evaluation date =	Time after Tx 🌣	3 years \$	5 years ©	7 years 🌣	Created ©
Report for Roger R GERBI (born Jun 28, 1950)	Sep 20, 2021	1 year	95 %	92 %	88 %	Sep 21, 2021
Report for Roger R GERBI (born Jun 28, 1950)	Sep 20, 2021	1 year	99 %	98 %	97 %	Sep 21, 2021
Report for Roger R GERBI (born Jun 28, 1950)	Sep 20, 2021	1 year	95 %	92 %	88 %	Sep 21, 2021
Report for Roger R GERBI (born Jun 28, 1950)	Sep 20, 2021	1 year	42 %	25 %	12 %	Sep 21, 2021
Report for Roger R GERBI (born Jun 28, 1950)	Sep 20, 2021	1 year	97 %	95 %	93 %	Sep 20, 2021
Report for Micheal ÔORDAN (born May 4, 1974)	Sep 17, 2021	3 years	6%	1%	0%	Sep 17, 2021
Report for Ryan COCHRANE (born Jul 28, 1980)	Sep 16, 2021	1 year	83 %	74 %	64 %	Sep 16, 2021
Report for Coralie LEVY (born Jul 24, 1995)	Sep 16, 2021	5 years	83 %	74 %	64 %	Sep 16, 2021
Report for Coralie LEVY (born Jul 24, 1995)	Sep 15, 2021	5 years	98 %	97 %	95 %	Sep 17, 2021
Report for Coralie LEVY (born Jul 24, 1995)	Sep 14, 2021	5 years	71 %	58 %	44 %	Sep 14, 2021
Showing 1 to 10 of 433 entries				Previous 1	2 3 4 5	6 44 Next

15.1. Search for:

In the search field, you can enter:

- All or part of a patient's name
- A date corresponding to the columns "Evaluation date", "Time after Tx", "Created on" in the format dd/mm/yyyy or /mm or /yyyy

The list of reports corresponding to the search entry is displayed by pressing the "Enter" key on your keyboard.

15.2. Display filter:

Click on the scroll box on the upper right $10 \div$ to change the number of reports displayed on a page. You can display 10, 25, 50, or 100 reports.

15.3. Order the list:

Click on the column header to change whether the list is displayed in ascending or descending order.

15.4. Browse the list:

To browse the list, click on one of the numbers, "Previous" or "Next" from the list.

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16. Alerts

16.1. Definition of alerts

Predigraft calculates patient alerts when the following data are added to a patient record:

- Weight data,
- Blood pressure data,

- Values for immunosuppressive drugs Co Tacrolimus, C2 Ciclosporin, Co Everolimus or

Co Sirolimus when creating a Predigraft report,

- Kidney function values for estimated GFR and proteinuria when creating a Predigraft report,
- Kidney Graft Survival Probability during Predigraft Report creation and iBox calculation,

16.2. Alert settings

Predigraft calculates patient alerts based on alert settings. There are three parameter categor:

- Predigraft-level (default): Cibiltech sets the default values
- Team level: the team owner can modify the alert settings for the team. This setting is then applied to all patients in the team.
- Patient-level: department members can change alert settings for each patient. this setting is only valid for the specified patient.

16.2.1. Cibiltech settings: default setting

For the Predigraft level, Cibiltech has defined default values that teams can modify as they see fit.

- 1) <u>Blood pressure:</u>
- Maximum systolic pressure value: 140 mmHg.
- Maximum diastolic pressure value: 90 mmHg.
- Systolic pressure value for hypertension (Grade 3): 180 mmHg.
- Diastolic pressure value for hypertension (Grade 3): 110 mmHg.

The maximum values for each setting are:

- Maximum systolic pressure value: 250 mmHg
- Maximum diastolic pressure value: 130 mmHg

2) <u>Weight</u>

- Weight gain: 1 kg.
- Weight loss in one month: 5%.
- Weight loss in six months: 10%.

The maximum values for each setting are:

• Weight gain: 20 kg

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- 3) <u>Immunosuppressive drugs</u>
- C0 Tacrolimus minimum threshold: 4 ng/mL
- C0 Tacrolimus maximum threshold: 12 ng/mL
- C2 Ciclosporin minimum threshold: 600 ng/mL
- C2 Ciclosporin maximum threshold: 1200 ng/mL
- C0 Everolimus minimum threshold: 3 ng/mL
- C0 Everolimus maximum threshold: 8 ng/mL
- CO Sirolimus minimum threshold: 4 ng/mL
- C0 Sirolimus maximum threshold: 12 ng/mL

The maximum values for each parameter are:

- T0 Tacrolimus minimum threshold: 12 ng/mL
- T0 Tacrolimus maximum threshold: 13 ng/mL
- T2 Ciclosporin minimum threshold: 1000 ng/mL
- T2 Ciclosporin maximum threshold: 1500 ng/mL
- T0 Everolimus minimum threshold: 12 ng/mL
- T0 Everolimus maximum threshold: 13 ng/mL
- T0 Sirolimus minimum threshold: 12 ng/mL
- T0 Sirolimus maximum threshold: 13 ng/mL
- 4) <u>Blood biology data</u>
- Minimum potassium: 3.2 mmol/L
- Potassium maximum: 5.3 mmol/L
- Minimum hemoglobin: 10 g/dL
- Maximum hemoglobin: 16.5 g/dL
- Minimum HbA1c: 4.5 %.
- Maximum HbA1c: 9 %.
- Platelets minimum: 80 000 /mm3
- Platelets maximum: 550 000 /mm3
- Neutropenia (minimum neutrophils): 1 000 /mm3
- Troponin maximum: 0.6 μg/L
- Minimum INR: 1
- Maximum INR: 5

The accepted thresholds for each parameter are :

- Potassium minimum: [3 3.5] mmol/L
- Maximum potassium: [4.8 5.5] mmol/L
- Hemoglobin minimum: [8.5 10] g/dL
- Maximum hemoglobin: [16 17.5] g/dL
- HbA1c minimum: [4 6] %
- HbA1c maximum: [6.5 13.5] %
- Platelets minimum: [10 000 150 000] /mm3
- Platelets maximum: [550,000 1,000,000] /mm3
- Neutropenia (minimum neutrophils) : [500 1,000] /mm3
- Troponin maximum: [0.6 2] μg/L
- INR minimum: [1 3.5]
- Maximum INR: [3.5 5]

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- 5) <u>Renal function (estimated GFR, proteinuria)</u>
- Decrease in estimated GFR: 30%.
- Increase in serum creatinine: 50%.
- de novo proteinuria

The maximum values for each parameter are:

- Decrease in estimated GFR: 9999.99%.
- Increase in serum creatinine: 9999.99%.

6) Probability of kidney graft survival

- Decrease in the probability of survival at 3 years: 1%.
- Decrease in the probability of survival at 5 years: 1%.
- Decrease in the probability of survival at 7 years: 1%.

Settings that cannot be changed are:

- de novo proteinuria
- Systolic pressure for hypertension (Grade 3)
- Diastolic pressure for hypertension (Grade 3)
- Weight loss in one month
- Weight loss in six months
- Decrease in the probability of survival at 3 years
- Decreased probability of survival at 5 years
- Decreased probability of survival at 7 years



16.2.2. Team-level configuration

To set up the team alerts, click on "Alerts" in the left sidebar, then click on "Alert Setup".

Alertes				
Paramétrage d'alertes				
Nom	ID	Dernière évaluation	Date de transplantation	Créé le
Sophie Q. Lanreau	68730	26 août 2020	25 août 2015	9 oct. 2020

You will then be taken to the "Team Alert Settings" page.

Settings History	dification by Mr Joesp	h Feeney I2 (1 wi	eek ago)				
Biology table				Blood pressure & Weigh	t		
Potassium: minimum	3.20	mmol/L	Update	Systolic BP : maximum	140	mmHg	Update
Potassium: maximum	5.30	mmol/L	Update	Diastolic BP : maximum	90	mmHg	Update
Hemoglobin: minimum	10.00	g/dL	Update				
Hemoglobin: maximum	16.5	g/dL	Update	Weight gain	1.00	kg	Update
HbAlc: minimum	4.50	96	Update				
HbAlc: maximum	9.00	%	Update	Kidney function			
Platelets: minimum	80000	/mm3	Update	Serum creatinine increase	1.00		Update
Platelets: maximum	550000	/mm3	Update		Predigraft set		
Neutropenia: minimum	1000	/mm3	Update	Other settings (not cust	omizable)		
Troponin: maximum	0.60	µg/L	Update	De novo proteinuria			
INR: minimum	1.00		Update	Hypertension (grade 3) : Systolic I Hypertension (grade 3) : Diastolic			
INR: maximum	5.00		Update	Weight loss in one month $\gtrsim 5$ %			
				Weight loss in six months ≥ 10 % Absolute decrease of 3 years graf			
Tacrolimus: minimum	4	ng/mL	Update	Absolute decrease of 5 years graf Absolute decrease of 7 years graf			
Tacrolimus: maximum	12	ng/mL	Update				
Ciclosporine T _a : minimum	600	ng/mL	Update				
Ciclosporine T _a : maximum	1200	ng/mL	Update				
Everolimus: minimum	3	ng/mL	Update				
Everolimus: maximum	8	ng/mL	Update				
Sirolimus: minimum	4	ng/mL	Update				
Sirolimus: maximum	12	ng/mL	Update				

To modify a parameter: change the value in the corresponding field and then click on the "Modify" button. A confirmation window will display the following information:

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- The parameter value entered,
- The calculation that generates the alert.

Example of modification of the minimum Tacrolimus threshold, at the team level:

Please confirm the following update				
An alert will appea Potassium < 3.30 r		ts in the team if:		
	Cancel	Update for all patients		

Click on "Modify for all patients" to confirm, or on "Cancel" to cancel the update.

Once you have updated a parameter, a "Parameter History" button allows you to access the history of changes. Next to the history button, a message indicates the date of the last parameter update, as well as the name of the user who performed the action.

Team Alert Settings						
¹ Settings History	Last modification by Prof. Lorena Jast (2 weeks ago)					



For each parameter that does not apply the default value, the default value will be displayed below: "Default (Predigraft): <Predigraft setting value>".

HbA1c: minimum	5.00	%	Update
	Predigraft setti	ngs: 4.5	

16.2.3. History of team-level configuration

You can access the setting history via the "Alerts" path on the left main menu, "Service Alerts Setting", "Setting History".

The history is displayed in descending order from the most recent to the oldest. In the history you will see:

- The name of the user who changed the settings,
- The date of the change,
- The list of each alert parameter and corresponding value.



Team Alert Settings History		← Bac
<u>Mr Joesph Feeney 12 : 1 week ago</u>		
Biology table Potassium (maimum) : 3.20 mmol/L Potassium (maximum) : 5.30 mmol/L Hemoglobin (minimum) : 10.00 g/dL Hemoglobin (maximum) : 16.5 g/dL HbA1c (minimum) : 4.50 % HbA1c (maximum) : 0.00 % Platelets (minimum) : 80000 /mm3 Platelets (maximum) : 550000 /mm3 Neutropenia (polynuclear neutrophils minimum) : 1000 /mm3 Troponin (maximum) : 0.60 µg/L INR (minimum) : 1.00	Kidney function Serum creatinine increase : 1.00 % De novo proteinuria Blood Pressure Systolic BP (maximum) : 140 mmHg Diastolic BP (maximum) : 90 mmHg Systolic BP for Hypertension (grade 3) : 180 mmHg Diastolic BP for Hypertension (grade 3) : 110 mmHg Weight Weight i : 1.00 kg Weight loss in 1 month : 5 %	
INR (maximum) : 5.00 Tacrolimus (minimum) : 4 ng/mL Tacrolimus (maximum) : 12 ng/mL Ciclosporine T _a (minimum) : 600 ng/mL Ciclosporine T _a (maximum) : 1200 ng/mL Everolimus (minimum) : 3 ng/mL Everolimus (maximum) : 8 ng/mL Sirolimus (maximum) : 12 ng/mL Sirolimus (maximum) : 12 ng/mL	Weight loss in 6 months : 10 % Survival Probability Absolute decrease of 3 years graftsurvival probability : 1.00 % Absolute decrease of 5 years graft survival probability : 1.00 % Absolute decrease of 7 years graft survival probability : 1.00 %	

16.2.4. Patient-level configuration

To set up alerts for a patient, access the patient record and click on the three small dots next to the patient's name, then click on "Alert settings". This will take you to the "Alert settings: <full name of patient>".



"D Settings History	odification by Mr Joesj	oh Feeney I2 (1 w	eek ago)				€ Bo
Biology table				Blood pressure & Weight	t i		
Potassium: minimum	3.20	mmol/L	Update	Systolic BP : maximum	140	mmHg	Update
Potassium: maximum	5.30	mmol/L	Update	Diastolic BP : maximum	90	mmHg	Update
lemoglobin: minimum	10.00	g/dL	Update				
lemoglobin: maximum	16.5	g/dL	Update	Weight gain	1.00	kg	Update
IbAlc: minimum	4.50	%	Update				
ibAlc: maximum	9.00	%	Update	Kidney function			
Platelets: minimum	80000	/mm3	Update	Serum creatinine increase	1.00	96	Update
Platelets: maximum	550000	/mm3	Update				
Neutropenia: minimum	1000	/mm3	Update	Other settings (not custo	omizable)		
roponin: maximum	0.60	µg/L	Update	De novo proteinuria Hypertension (grade 3) : Systolic I	IP ≥ 180 mmHg		
NR: minimum	1.00		Update	Hypertension (grade 3) : Diastolic BP ≥ 110 mmHg Weight loss in one month ≥ 5 %			
NR: maximum	5.00		Update	Weight loss in six months ≥ 10 % Weight loss in six months ≥ 10 % Absolute decrease of 3 years graftsurvival probability ≥ 1 %			
				Absolute decrease of 5 years graf	and the second		
Facrolimus: minimum	4	ng/mL	Update	Absolute decrease of 7 years graf	survival probability ≥	1%	
Facrolimus: maximum	12	ng/mL	Update				
Ciclosporine T ₂ : minimum	600	ng/mL	Update				
Ciclosporine T ₂ : maximum	1200	ng/mL	Update				
verolimus: minimum	3	ng/mL	Update				
verolimus: maximum	8	ng/mL	Update				
Sirolimus: minimum	4	ng/mL	Update				
Sirolimus: maximum	12	ng/mL	Update				

To modify a parameter: change the value in the corresponding field and then click on the "Modify" button. A confirmation window will display the following information:

- The parameter value entered,
- The calculation that generates the alert.

Click on "Modify for <full patient name>" to validate, or on "Cancel" to cancel the update.

Example of changing the Maximum Systolic Pressure threshold at the patient level:

Please confirm the following update			
An alert will appear for the patient Ryan COCHRAN Hemoglobin > 16. g/dL	NE if:		
Cancel Update for Ryan C	OCHRANE		

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Once you have updated an alert parameter at the patient level, a "Parameter History" button allows you to access the modification history. The button does not appear if the parameter has only been changed at the team level.

Next to the history button, a message will display the date of the last update to the patient's alert settings as well as the name of the user who performed the action.

Patient Alert Settings: Ryan COCHRANE						
Settings History	Last modification by Prof. Lorena Jast (1 second ago)					

Under each parameter that does not have the default value, a text says: "Default (Service): <value of service setting>".

Hemoglobin: maximum	16.0	g/dL	Update
	Team settings: 16.5		



16.2.5. History of patient-level settings

To access a patient's alert history, select a patient's record and click on the three small dots next to the patient's name, then click on "Settings History".

The history is sorted with the most recent modification at the top of the page. The history is a list containing:

- The category of the setting: team/department or patient,
- The name of the user who changed the settings,
- The date of the change

Alert History: Ryan COCHRANE (045-222-056)	← Back
Alerts <i>(Sep 16, 2021)</i> O Mark as read There is a reduction of the kidney function (increase of serum creatinine) between Sep 16, 2021 and Sep 16, 2021.	
Alerts <i>(Sep 16, 2021)</i> O Mark as read There is a reduction of the kidney function (increase of serum creatinine) between Sep 16, 2021 and Sep 16, 2021.	
Alerts (Sep 16, 2021) O Mark as read There is a reduction in probability allograft survival between Jul 28, 2021 and Sep 16, 2021.	
Alerts (<i>sep 21, 2021</i>) O Prof. Lorena Jast marked as read this alert 1 second ago Sep 21, 2021: From last evaluation (Sep 17, 2021), a gain of weight has been observed (+ 20 kg).	



16.3. Alert calculation for a patient

Alerts are based on the following information (calculations are available in the Appendix).

1) Blood pressure

The software calculates blood pressure alerts from:

- the most recent date of blood pressure and associated systolic and diastolic pressure values.

<u>2)</u> Weight

The software calculates weight alerts from:

- the most recent date of weight and the corresponding value,
 - the previous weight date and the corresponding value.

3) Immunosuppressive drugs

The software calculates immunosuppressive drug alerts on the first validation of data extracted from a biological report, if that report is the most recent analysis date:

- date of the biological analysis,
- T₀ Tacrolimus (ng/mL), T₂ Ciclosporin (ng/mL), T₀ Everolimus (ng/mL), T₀ Sirolimus (ng/mL) values.

4) Blood biological data

The software calculates the blood biological data alerts during the first validation of the data extracted from a biological report, if this report is the most recent analysis date:

- date of the biological analysis,
- Potassium value converted to mmol/L,
- Hemoglobin value converted to g/dL,
- HbA1c (Glycated Hemoglobin) value converted to %,
- Platelet count value converted to /mm3,
- Neutrophil count value converted to /mm3,
- Troponin value converted,
- INR value.

5) Kidney function

Software calculates renal function alerts from two Predigraft reports:

- Orders Predigraft reports by date of assessment (date of step 2) Estimated GFR),
- Selects the most recent report: "current report,
- Selects the previous report: "previous report.

The software selects in both reports: date of estimated GFR, GFR value, creatinine value if filled, proteinuria date, proteinuria value.



6) Probability of renal graft survival

The software calculates renal graft survival probability alerts from two Predigraft reports:

- Orders Predigraft reports by assessment date (date of step 2) estimated GFR),

- 1-year analysis, if a 5% decrease in 7-year kidney graft probability occurred between 2 reports,

- 1-year analysis, if a 5% decrease in 7-year kidney graft probability occurred between one report and the nearest biopsy,

16.4. Management of the list of patients on alert

Click on "Alerts" on the left sidebar for a list of patients on alert.



A counter of patients on alert ¹ is displayed on the left sidebar Alerts. If the counter is not visible, there are no patients on alert.

Alertes				
Paramétrage d'alertes				
Nom	ID	Dernière évaluation	Date de transplantation	Créé le
Sophie Q. Lanreau	68730	26 août 2020	25 août 2015	9 oct. 2020

The list of patients on alert contains:

- Patient's full name,
- Patient ID,
- Latest assessment date: last date of the "Estimated GFR" stage entered during creation of a Predigraft report for this patient,
- Patient transplant date,
- Date of creation of the patient record.

You can click on one of the lines in the list of patients on alert to access the corresponding patient record.



16.5. Managing an alert

If a patient is on alert, the alerts are visible from the patient record.



Each alert contains:

- The date of creation of the alert,
- Details of the alert,
- A "Mark as read" button.

Mark as read

If you click on "Mark as read", this action is recorded in the database and means that you are aware of the alert. The button is changed to "Read on <date and time> by <user>" and this message is visible to all team members.

An alert marked as read is moved to the alert history page, accessible through the "Alert History" button on the patient page.

Alert History

The Alert History page lists a patient's alerts, displaying the most recent first. The history page lists read alerts (gray) and unread alerts (red). You can read an alert from this page.

Historique d'alertes : Sophie Q. Lanreau (68730)				
 Alerte (9 oct. 2020) O Marquer comme lu 1 oct. 2020 : Depuis la dernière date d'évaluation (26 sept. 2020), un changement de poids a été observé chez Lanreau Sophie la 	(+ 1.4 kg).			
 Alerte (1 oct. 2020) Or. John Smith a lu cette alerte il y a I semaine Le 5 oct. 2020, la pression artérielle systolique est supérieure à la cible définie pour Lanreau Sophie : 150 mmHg. 				
 Alerte (1 oct. 2020) Or. John Smith a lu cette alerte il y a I semaine Le 5 oct. 2020, la pression artérielle diastolique est supérieure à la cible définie pour Lanreau Sophie : 110 mmHg. 				

16.6. Daily notification of your patients' activity

If you are a member of a team, you will receive a daily email about the Predigraft activity of your patients in the "My Patients" list. This email contains the following information:

- The number of your patients in the "My Patients" list who have a weight or blood pressure alert,
- The number of documents imported by your patients, present in the "My

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patients" list, the previous day,

- The number of unread conversations to date with your patients present in the "My Patients" list,
- The number of new biopsy reports available.

Note: The clinical and biological data as well as the documents are not contained in the email.

If you are the owner of a team, you will receive a daily email about the Predigraft activity of all the patients in your department. This email contains the following information:

- The number of your patients in the "My Patients" list who have an alert on their weight or blood pressure,
- The number of patients not in the "My Patients" list of any member of your team who have alerts on their weight and blood pressure,
- The number of documents imported by your patients, present in the "My Patients" list, the previous day,
- The number of documents imported by patients not in the "My Patients" list of any of your team members,
- The number of unread conversations to date with your patients in the "My Patients" list,
- The number of unread conversations to date with patients not in any team member's "My Patients" list,
- The number of new biopsy reports available.

Note: Clinical and biological data and documents are not contained in the email.

17. Patient application

From the patient application, the patient can send you clinical and biological data:

- Weight,
- Blood pressure,
- Biological analysis report.

You can directly consult the data sent by the patient in his corresponding patient record.



18. Support/Maintenance

For any questions, requests, or reports of malfunction, please send an email to support@cibiltech.com

MATERIOVIGILANCE: Any incident or risk of serious incident (defined according to article L5212-2 of the Public Health Code) detected during the use of the medical device Predigraft must be reported to the manufacturer at the following address: <u>contact@cibiltech.com</u>

You must report any event to the competent authority of the Member State in which you are established: <u>https://ec.europa.eu/health/sites/health/files/md_sector/docs/md_vigilance_contact_points.pd</u>



19. Personal data

For any questions, requests or statements regarding your personal data, please refer to Cibiltech's Privacy Policy, available online on the company's website: <u>www.cibiltech.com</u>.



20. Appendix 20.1. Input Parameters

1. Transplant and evaluation date

The transplant date must be filled in with the day, month, and year.

The evaluation date is the date on which the creatinine measurement was performed. This date may be different from the date of the medical appointment. This date is used as a reference for all other measurements taken. It must be completed with the day, month, and year.

2. Estimated glomerular filtration rate (eGFR)

Glomerular filtration rate (GFR) is the primary measure of kidney function. It can be measured or estimated from validated formulas that have been published in scientific journals. The equation that was used to develop and validate the iBox is the one used in the Modification of Diet in Renal Disease (MDRD) study:

Estimated GFR (mL/min/1.73 m²) = $186 \times (Scr/88.4) - 1.154 \times (Age) - 0.203 \times (0.742 \text{ if female})$ (International Unit)

3. Proteinuria

Proteinuria is a marker of kidney damage. It can be tested with a urine test strip. If positive, it is confirmed and quantified on a 24-hour urine collection (result in mg/24h), or when 24-hour urine collection is not possible, on a urine sample taken at any time of day and by the proteinuria/creatinuria ratio (result in mg/g or mg/mmol).

Proteinuria is measured on the same day as creatinine. A delay of up to 15 days between the measurement of creatinine and the estimation or measurement of proteinuria is tolerated.

4. anti-HLA donor specific antibodies

The presence of donor-specific anti-HLA antibodies (DSA) is assessed regularly after a kidney transplant. The measurement is carried out by solid phase analysis. The current preferred method is flow cytometry using fluorescent microbeads. The result is provided by the HLA laboratory. It can be qualitative (positive or negative) or quantitative. The mean value of the fluorescence intensity (MFI) of the immunodominant DSA (i.e. DSA with the highest MFI) should be reported. The date of the DSA test should not be more than 2 months from the evaluation date.

5. Histology

A pathology report is provided after a kidney transplant biopsy. This report provides a histological description with a diagnostic result as well as a semi-quantitative description of the basic histological lesions according to the Banff classification system. The clinician has the option to enter the reported diagnoses or the Banff histological scores. The date of biopsy should not exceed 2 months from the date of assessment.



20.2 Appendix 2: Calculation of alerts

1) Blood pressure

The software calculates blood pressure alerts from:

 the most recent date of blood pressure and corresponding systolic and diastolic pressure values Systolic blood pressure is referred to as "SP" below. Diastolic blood pressure is referred to as "PAD".

Calculation of alerts:

IF PAS > blood_pressure high_systolic: "On the <DATE>, systolic blood pressure is above the target set for <NAME> FIRST NAME>: <PAS VALUE> mmHg. »

IF PAD > blood_pressure high_diastolic: "On the <DATE>, diastolic blood pressure is above the target set for <NAME> <FIRST NAME>: <PAD VALUE> mmHg. »

IF PAS >= 180 OR PAD >= 110: "On <DATE>, a grade 3 blood pressure was observed for <NAME> <FIRST NAME> (<PAS VALUE> / <PAD VALUE> mmHg)".

2) Weight

The software calculates Weight alerts from:

- the most recent date of weight and corresponding value
- the previous weight date and the corresponding value

Calculation of alerts:

IF Weight_gain >= Weight_gain_kg:

"< RECENT DATE>: Since the last evaluation date (<PREVIOUS DATE>), a change in weight has been observed for <NAME> <FIRST NAME> (+ <DIFFERENCE BETWEEN WEIGHTS> kg)".

ELSE IF

Difference between dates is one month or less AND Weight loss >= Weight loss_percentage one_month_ago (5%)

OR

The difference between the dates corresponds to one month to six months AND Weight Loss >= Weight loss_percentage six_months_ago (10%):

"< RECENT DATE> : Since the last evaluation date (<PREVIOUS DATE>), weight loss has been observed in <NAME> <FIRST NAME> (- <DIFFERENCE BETWEEN WEIGHTS> kg)".

3) Immunosuppressive drugs

The software calculates immunosuppressive drug alerts on the first validation of data extracted from a biological report, if that report is the most recent analysis date and T₀ Tacrolimus, T₂ Ciclosporin, T₀ Everolimus, T₀ Sirolimus values

Calculation of alerts:

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IF T₀ Tacrolimus < trough_levels low_tacrolimus OR > trough_levels high_tacrolimus: "<DATE>: The residual tacrolimus concentration is outside the target defined for <NAME> <FIRST NAME> (TO: <VALUE> ng/mL).

IF T₂ Cyclosporine < trough_levels low_cyclosporine OR > trough_levels high_cyclosporine: "<DATE> : The concentration of cyclosporine 2 hours after dosing (T2) is outside the target defined for <NAME> <FIRST NAME> (C2: <VALUE> ng/mL).".

IF T₀ Sirolimus < trough_levels low_everolimus OR > trough_levels high_everolimus: "<DATE>: The residual concentration of sirolimus is outside the target defined for <NAME> <FIRST NAME> (TO: <VALUE> ng/mL).".

IF T_o Everolimus < trough_levels low_sirolimus OR > trough_levels high_sirolimus: "<DATE>: The residual concentration of everolimus is outside the target defined for <NAME> <FIRST NAME> (TO: <VALUE> ng/mL).

4) Kidney function

The software calculates blood biology data alerts on the first validation of data extracted from a biology report, if that report is the most recent analysis date:

- date of the biological analysis,
- Potassium value converted to mmol/L,
- Hemoglobin value converted to g/dL,
- HbA1c (Glycated Hemoglobin) value converted to %,
- Platelet count value converted to /mm3,
- Neutrophil count value converted to /mm3,
- Troponin value converted to μg/l,
- INR value.

Calculation of alerts :

IF Potassium < bio__potassium__low__mmol_l OR > bio__potassium__high__mmol_l: "<DATE>: Potassium is below/above the defined threshold: <VALUE> mmol/L."

IF Hemoglobin < bio_hemoglobin_low_g_dl OR > bio_hemoglobin_high_g_dl: "<DATE>: Hemoglobin is below/above the defined threshold <VALUE> g/dL."

IF HbA1c < bio_hab1c_low_percentage OR > bio_hab1c_high_percentage: "<DATE>: Glycated hemoglobin is below/above the defined threshold: <VALUE> %."

IF Platelets < bio__platelets__low__per_mm3 OR > bio__platelets__high__per_mm3: "<DATE>: Platelets are below/above the defined threshold: <VALUE> /mm3."

IF Neutrophils < bio__neutropenia__low__per_mm3: "<DATE>: Neutropenia was detected: <VALUE>/mm3."

IF Troponin > bio__troponin__high__ug_l: "<DATE>: Troponin is above the defined threshold (<VALUE> µg/L)."

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IF INR < bio__inr__low OR > bio__inr__high: "<DATE>: INR is below/above the defined threshold <VALUE>."

5) Kidney function

The software calculates renal function alerts from two Predigraft reports:

- Orders the Predigraft reports by date of assessment (date of step 2) Estimated GFR),
- Selects the most recent report: "current report,
- Selects the previous report: "previous report.

The software selects in both reports: date of estimated GFR, GFR value, creatinine value if informed, proteinuria date, proteinuria value

Calculation of alerts:

IF the GFR value of the current report is reduced by "kidney_function__egfr_reduction" or more, compared to the GFR value of the previous report:

"Kidney function has decreased (decrease in estimated GFR) between <PREVIOUS REPORT DATE> and <CURRENT REPORT DATE>"

IF the serum creatinine value of the current report is increased by "kidney_function__serum _creatinine_increase" or more, compared to the serum creatinine value of the previous report: "Kidney function decreased (serum creatinine decreased) between <PREVIOUS REPORT DATE> and <CURRENT REPORT DATE>."

IF proteinuria value was 0 in the previous report and is greater than 0 in the current report: "Kidney function decreased (de novo proteinuria) between <PREVIOUS REPORT DATE> and <CURRENT REPORT DATE>."

6) Probability of renal graft survival.

The software calculates renal function alerts from two Predigraft reports:

- Orders the Predigraft reports by date of assessment (date of step 2) Estimated GFR),
- Selects the most recent report: "current report,
- Selects the previous report: "previous report.

Software selects from both reports: projected survival probabilities at 3 years, 5 years, 7 years.

Calculation of alerts:

IF probability of survival at 3 years of the current report < probability of survival at 3 years of the previous report with a precision of survival_probability__3y_reduction (1%) OR

5-year survival probability of the current report < 5-year survival probability of the previous report with a precision of survival_probability__5y_reduction (1%)

OR

7-year survival probability of current report < 7-year survival probability of previous report with a precision of survival_probability__7y_reduction (1%) :

"The probability of renal graft survival decreased between <PREVIOUS REPORT DATE> and <CURRENT REPORT DATE>."

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20.3 Appendix 3: Biological Table Reference Units

Values stored in Predigraft but not displayed in the biological table are shown in italics.

"Blood" part

- Glycated hemoglobin: %.
- Glucose: mmol/L
- Sodium: mmol/L
- Potassium: mmol/L
- Total CO2: mmol/L
- Protein: g/L
- Urea: mmol/L
- Creatinine: µmol/L
- eGFR: mL/min/1.73m2
- Calcium: mmol/L
- Phosphorus: mmol/L
- Magnesium: mmol/L
- Uric acid: µmol/L
- Total Bilirubin: μmol/L
- Conjugated Bilirubin: μmol/L
- ALT: IU/L
- AST: IU/L
- Alkaline phosphatase: IU/L
- Gamma GT: IU/L
- LDH: IU/L
- CPK: IU/L
- Amylase: IU/L
- Lipase: IU/L
- Total cholesterol: mmol/L
- HDL total cholesterol: mmol/L
- LDL cholesterol: mmol/L
- Triglycerides: mmol/L
- Troponin: ng/L
- Haptoglobin: g/L
- Ferritin: μg/L
- Saturated transferrin coefficient: %.
- PTH: ng/L
- 25-hydroxyvitamin D: ng/mL
- Di-hydroxyvitamin D: pg/mL
- Patient prothrombin time: seconds
- Prothrombin time control: seconds
- PT: %.
- INR (ratio)
- APTT ratio
- Patient aPTT: seconds
- Control aPTT: seconds
- Fibrinogen activity: g/L
- Anti-Xa: Xa/mL
- CRP: mg/L
- AB antibody assay: titre
- Hematies: 1012/L
- Hematocrit: %.
- Hemoglobin: g/dL

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- VGM: fL
- Reticulocytes: 109/L
- Schizocytes : %
- Leukocytes: 109/L
- Neutrophils: 109/L
- Eosinophilic Polynuclei: 109/L
- Basophilic Polynuclear Cells: 109/L
- Lymphocytes: 109/L
- Monocytes: 109/L
- Platelets: 109/L
- BK: log copies/mL
- CMV: log copies/mL
- HIV: log copies/mL
- HBV: log copies/mL
- HCV: log copies/mL
- Ciclosporin T0: ng/mL
- Ciclosporin T2: ng/mL
- Tacrolimus T0: ng/mL
- Sirolimus T0: ng/mL
- Everolimus T0: ng/mL
- PSA : ng/mL

"Urine" part

- Urine volume: L/24h
- Urine protein: g/L
- Protein-creatinine ratio: g/g
- Urea: mmol/L
- Urine Creatinine: mmol/L
- Urine Sodium: mmol/L
- Urine potassium: mmol/L
- Urinary red blood cells: /mm3
- Urinary leukocytes: /mm3
- Microbiology (text)