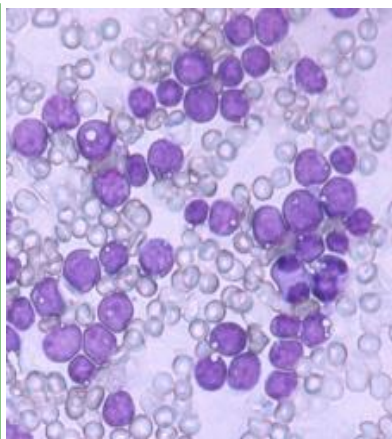


# PROMETHEUS



## PROMETHEUS

Software for Stem Cells Donor Registries



Patient Management

Mechelen, Belgium  
February 2013










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# PROMETHEUS

## Contents

- Patient folder
- Selection of patient
- New patient
- Edit patient
- Validation
- History
- Stack
- Reports
- Analytical tool

	1 Select	F5
	2 Close	F4
	3 Edit	Ctrl+P
	5 New	▶
	7 History	
	V Validate	
	X Records to be validated (HLA/DNA)	
	Records to be validated (other info)	
	9 EMDIS search results	
	E Stack	Ctrl+F5
	F Reports	
	G Analytic tool	

# PROMETHEUS

## Patient selection

Menu Patient – Select  
Button “Select patient”  
Shortcut F5

- BE1234P
  - 1234
  - BEANSxxxx
  - Smith
  - Nov
  - 19970414
- patient Prometheus/EMDIS ID
  - patient number (Internal Prometheus)
  - Old Syrenad ID
  - Patient's Surname
  - Part of patient's name/surname
  - Date of Birth/ part of DOB (YYYYMMDD!)

# PROMETHEUS

**Prometheus - Stem Cell Donor Registry**

File Donor Patient Search EMDIS Service Help

Select donor Select patient New donor New patient D: T: BETRAANS1 Peyerl Karel Administrators Exit

Registry

Patient Active Patients Local Search Rq. w/o ans. EMDIS - new EMDIS - old

**Patient BE60265P - Peyerl Karel**

Edit EMDIS Status EMDIS Patient Update EMDIS Search Results EMDIS Request EMDIS Result FAX Req. Local Search Rep.

Patient Record EMDIS messages [0] Attached Files [0] Patient Notes [-]

Patient **BE60265P** Status

Name **Peyerl Karel** DG **AML** DG Date

Registry **B** TX center **BETRAANS1** Physician

DOB **14.04.1977** WEIGHT **105** ABO **0** Rh **+** CMV **Unknown**

A\***01:01** B\***08:02** C\***05:01** DRB1\***12:01** DQB1\***02:01** DRB3\* DRB4\* DRB5\*

Record changed on **09.02.2013** at **17:53** by **Peyerl Karel**

Record inserted on **09.02.2013** at **17:52** by **Peyerl Karel**

**HLA/DNA to be validated**

Medical data validated on **09.02.2013** at **17:53** by **Peyerl Karel**

Select Patient  
Use F5  
Or  
Patient menu  
Or  
Button

Select	HUB	State	Watch	Search result	Reason
<input checked="" type="checkbox"/>	ALL	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	BE	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	AT	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	AU	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	SE	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	CH	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	CZ	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	DE	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	ES	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	FR	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	GB	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	IT	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	NL	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	NO	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	GL	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	WA	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	US	?	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	SX	?	<input type="checkbox"/>		

Change status in selected HUBs

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## Short cut keys

- Select Patient - F5
- Close Patient - F4
- Edit patient - CTRL + P
- New Patient - CTRL + M
- ALT X - Confirm and close form
- ESC button - Abort form



# PROMETHEUS

## Patient Edit Form

Edit Patient Peyerl / BE60265P

OKEsc

Registry: B

Country: BE

[E] Transplant centerBETRAANS1...

[E] Last NamePeyerl

[E] First NameKarel

Personal ID

[E] Birth date14.04.1977

[E] SexMale

[E] ABO0

[E] Rhesus+

[E] Weight105

Validatedyes

on09.02.2013

byPeyerl Karel

✓ OK✗ Cancel? F1

PageUp - previous pagePageDown - next page

IDMedicalTXSerolDNA

1 / 5

# PROMETHEUS

## Form Behavior

- Recommendation: **don't use mouse, use shortcuts**
- Enter = Down = Tab (next field, next page)
- Up = Shift-Tab (previous field)
- PageUp/PageDown =
- F1 for help
- F3 for table selection
- Alt-X = Confirm and close
- Esc = Abort / cancel / escape



# PROMETHEUS

## Standard Patient Form

- ID
- Medical
- TX
- Serology
- DNA





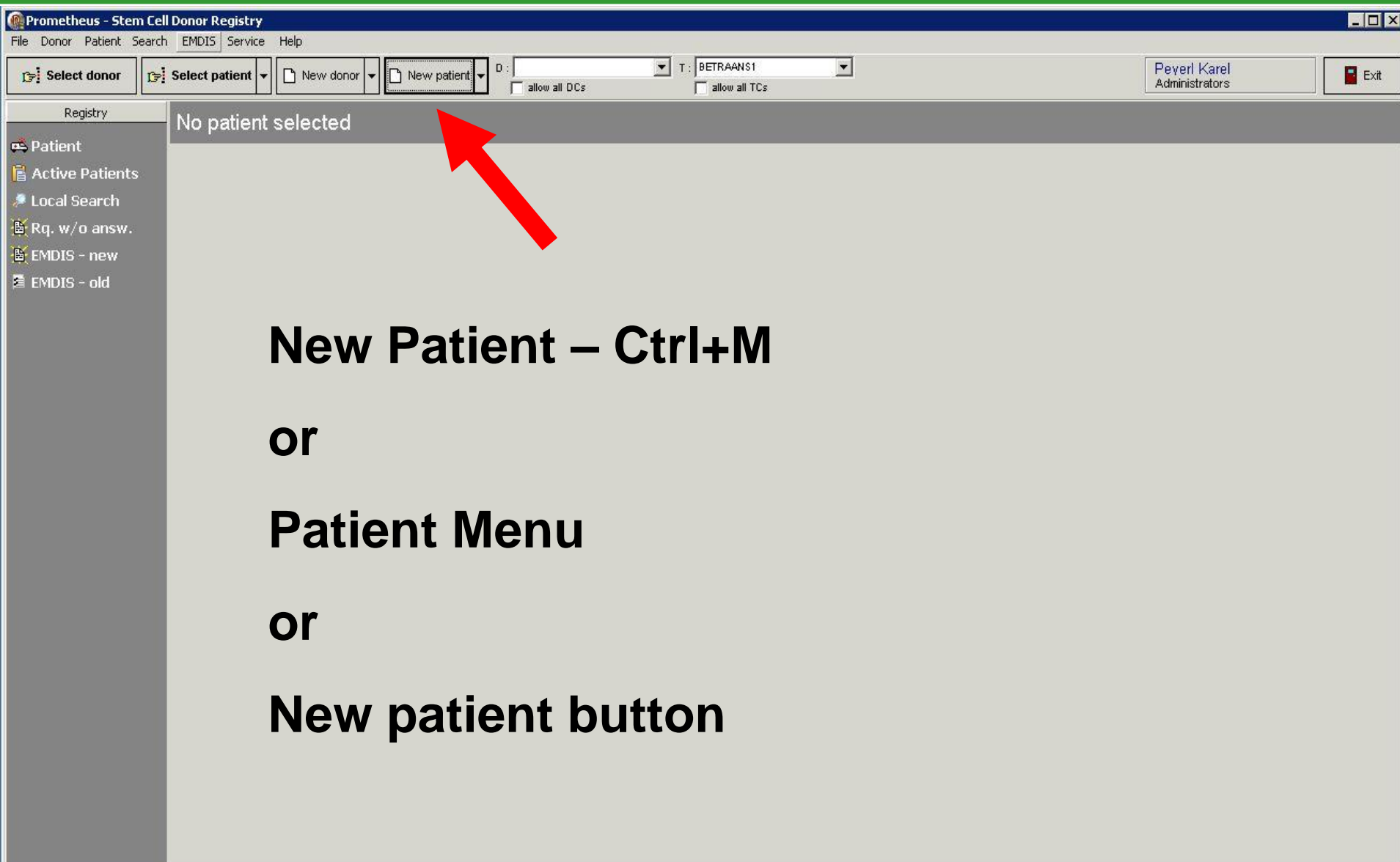
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## EMDIS Items of a Patient

- **Patient EMDIS diagnosis (DG EMDIS)** – the patient diagnosis according to the EMDIS nomenclature.
- **Patient date of diagnosis** - the date of the diagnosis determination
- **Disease phase** - an optional item
- **Weight** – the weight of the patient in kg, an optional item
- **Patient CMV status** - an optional item
- **Grafting physician ID** – the identifier of the doctor of the EMDIS center, an optional item



# PROMETHEUS



**New Patient – Ctrl+M**

**or**

**Patient Menu**

**or**

**New patient button**

# PROMETHEUS

## New Patient Form : Tab ID

New Patient OK Esc

Registry: B

Country: BE

[E] Transplant center **BETRAANS 1** ...

[E] Last Name

[E] First Name

Personal ID

[E] Birth date

[E] Sex **Male** ▾

[E] ABO **?** ▾

[E] Rhesus **?** ▾

[E] Weight

Validated **no** ▾

on

by

OK + New ✓ OK ✗ Cancel ? F1

PageUp - previous page PageDown - next page

ID / Medical / TX / Serol / DNA

1 / 5

# PROMETHEUS

## Tab Medical:

New Patient OK Esc

Diagnosis

[E] DG Emdis ? ...

[E] DG Emdis Text

Cust.dis.phase ... [E] Date DG

Physician

[E] Disease phase ? ...

Patient Status

Status

Status changed

Comment

IDM

[E] CMV ?

Validated no

on

by

OK + New ✓ OK ✗ Cancel ? F1

ID Medical TX Serol DNA

2 / 5

# PROMETHEUS

## Tab TX: transplantation data

New Patient OK Esc

Transplantation

First transplantation

Donor ID  ... Date

Source  ? Donor registry  ...

Second transplantation

Donor ID  ... Date

Source  ? Donor registry  ...

Third transplantation

Donor ID  ... Date

Source  ? Donor registry  ...

Validated  no on  by

OK + New ✓ OK ✗ Cancel ? F1

ID Medical TX Serol DNA

3 / 5

# PROMETHEUS

## Tab Serology:

New Patient OK Esc

[E] Serology

HLA-A	<input type="text"/>	...	<input type="text"/>	...
HLA-B	<input type="text"/>	...	<input type="text"/>	...
HLA-C	<input type="text"/>	...	<input type="text"/>	...
HLA-DR	<input type="text"/>	...	<input type="text"/>	...
HLA-DQ	<input type="text"/>	...	<input type="text"/>	...

Prometheus don't require to enter serology typing or search determinant.

OK + New ✓ OK ✗ Cancel ? F1

ID Medical TX Serol DNA

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# PROMETHEUS

## Tab DNA :

New Patient OK Esc

[E] Serology

HLA-A	<input type="text"/>	...	<input type="text"/>	...
HLA-B	<input type="text"/>	...	<input type="text"/>	...
HLA-C	<input type="text"/>	...	<input type="text"/>	...
HLA-DR	<input type="text"/>	...	<input type="text"/>	...
HLA-DQ	<input type="text"/>	...	<input type="text"/>	...

OK + New ✓ OK ✗ Cancel ? F1

ID Medical TX Serol DNA

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## SOP's for Patients

### ■ Disease – EMDIS Diagnosis codes

Patient DG		
Num	ID	Name
0	?	?
1	AML	Acute Myelogenous Leukaemia
2	ALL	Acute Lymphoblastic Leukaemia
3	CML	Chronic Myelogenous Leukaemia
4	OL	Other Leukaemia
5	HL	Hodgkin's Lymphoma
6	MDS	Myelodysplastic Disorders
7	NHL	Non-Hodgkin's Lymphoma
8	PCD	Plasma Cell Disorder
9	HIS	Histiocytic Disorders
10	OM	Other Malignancy
11	IEA	Inherited Erythrocyte Abnormality
12	IIS	Inherited Immune System Disorder
13	IMD	Inherited Metabolic Disorder
14	IPA	Inherited Platelet Abnormality
15	SAA	Severe Aplastic Anaemia
16	OND	Other Non-malignant Disease

Select item by cursor move and key Enter

1 / 17

✓ ✗



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## Patient SOP

- MDPB-R Customised disease phase :

New Patient		Select value from list
<u>Diagnosis</u>		01 : 1st and 2nd relapse
[E] DG Emdis	?	02 : 1st or 2nd complete remission (CR)
[E] DG Emdis Text		03 : 1st or 2nd relapse
Cust.dis.phase		04 : 3rd + CR
Physician		05 : 3rd + relapse
[E] Disease phase	?	06 : Accelerated phase
<u>Patient Status</u>		07 : Adrenoleucodystrophia
Status		08 : Amegacaryocytosis
Status changed		09 : Ataxia Telangiectasia
Comment		10 : Blast phase
		11 : Chronic phase (CP) 1
		12 : Combined immunodeficiency
		13 : CP 2+
		14 : CR
		15 : CR1
		16 : Essential trombocytemia
		17 : Familial lymphohistiocytosis
		18 : Fanconi anemia
		19 : Glanzmann Thrombastenia
		20 : Highest IPSS<1.5
		21 : Highest IPSS>1.5
		22 : Histiocytosis
		23 : Hurler Syndrom
		24 : Idiopathic aplasia
		25 : Leukemia with plasmocytes
		26 : Multiple myeloma
		27 : Myelofibrosis
		28 : Ommen syndrome
		29 : Other constitutional aplasia
		30 : Other non constitutional aplasia
		31 : Other please specify:
		32 : Other secondary medullary aplasia
		33 : Paroxysmal nocturnal hemoglobinuria

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## Patient SOP

- Patient Medical Validation


- Patient DNA A, B, C at least on Low Resolution

- Patient DNA DRB1 at least on Intermediate Resolution


- DNA Validation


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## Required fields


 **Errors and Warnings**


**Errors and Warnings**


  
You must fill patient's name!

  
Date of birth is empty! You cannot send the patient to EMDIS


  
EMDIS diagnosis is empty! You cannot send the patient to EMDIS


  
HLA typing is incomplete (at least low res. at A\*, B\*, C\* and interm. res. at DRB1\* requested).


  
HLA-A locus is missing.

  
HLA-B locus is missing.

**You must correct errors!**

 **Print**

 **Correct errors**

 **Ignore warnings**

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## Patient Validation

BE - validation of DNA/HLA values

Serology :

DNA :

A* :	01:01	01:01
B* :	08:02	08:02
C* :	05:01	05:01
DRB1* :	03:XX	12:01
DQB1* :	02:01	02:01

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## DNA Validation

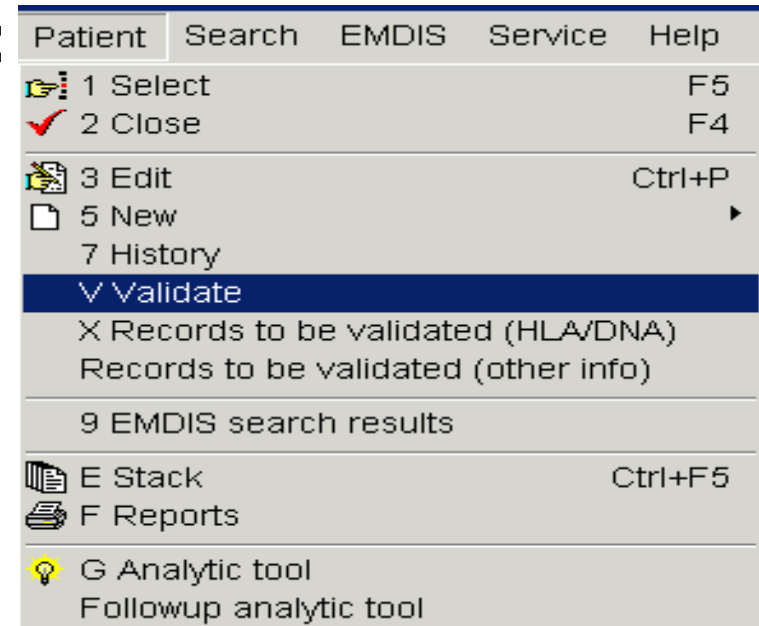
- Program remembers fields that failed validation
- Unvalidated fields may be validated later
- An un-validated patient can't be sent to EMDIS
- Each typing update must be validated.



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## DNA Validation

- You can also validate the DNA fields of a patient record immediately when the patient record is open : Go to the patient menu and then press “validate”:



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## Validation task list




- Patients with incomplete validation are listed using the records to be validated tool in the patient menu

**BE - records waiting for validation (patients)**

Drag a column header here to group by that column

Patient ID	First name	Surname	Changed when	Changed by
			27/12/2012 12:18:00	TEST
BE60206P	Nummer 3	Nummer 3	27/12/2012 11:43:00	TEST
BE60221P	Hoon	Hoon	10/01/2013 18:24:00	HB
BE60222P	Test	Test	10/01/2013 18:34:00	HB
BE60223P		AAAAAAAAAAAA	10/01/2013 18:34:00	HB
BE60265P	Karel	Peyerl	9/02/2013 17:53:00	Peyerl Karel

☐ show only patients with failed validation
 ☐ show only patients waiting for validation of update  
☐ show patients with not validated medical data
 ☐ show only patients newly added and not validated

Validate  Validate all (temporary) After (temp)  OK  Cancel

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## Patient notes

**Prometheus - Stem Cell Donor Registry**

File Donor Patient Search EMDIS Service Help

Select donor
 Select patient
 New donor
 New patient
 D :  T : BETRAANS1
 ☐ allow all DCs ☐ allow all TCs

Registry

- Patient
- Active Patients
- Local Search
- Rq. w/o answ.
- EMDIS - new
- EMDIS - old

**Patient BE60265P - Peyerl Karel**

Edit
 EMDIS Status
 EMDIS Patient Update
 EMDIS Search Results
 EMDIS Request
 EMDIS Result

Patient Record | EMDIS messages [0] | Attached Files [0] | Patient Notes [-]

**B** *I* U <sup>A</sup> <sub>A</sub>

**My patient's notes.** Unlimited text comment.

*Supports rich text editing*

Maybe exported as a RTF text file

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ISO 9001:08

ISMS

ISO 27001:05

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## Attached Files

**Prometheus allows the attachment of external files to the patient record**

- **Files can be of any windows supported format**
- **Files can be retrieved from the patient record**
- **Files may be linked to a specific donor**



 EditEMDIS  
StatusEMDIS  
Patient  
UpdateEMDIS  
Search  
Re

EMDIS  
Request

EMDIS  
ResultFAX  
Req.

Local Search



Rep.

Patient Record EMDIS messages [0] Attached Files [0] Patient Notes [A]



Refresh table

Patient: BE60265P

Donor: **all**

File type: [all](#)

Open file




New file



**Description**



 Update file



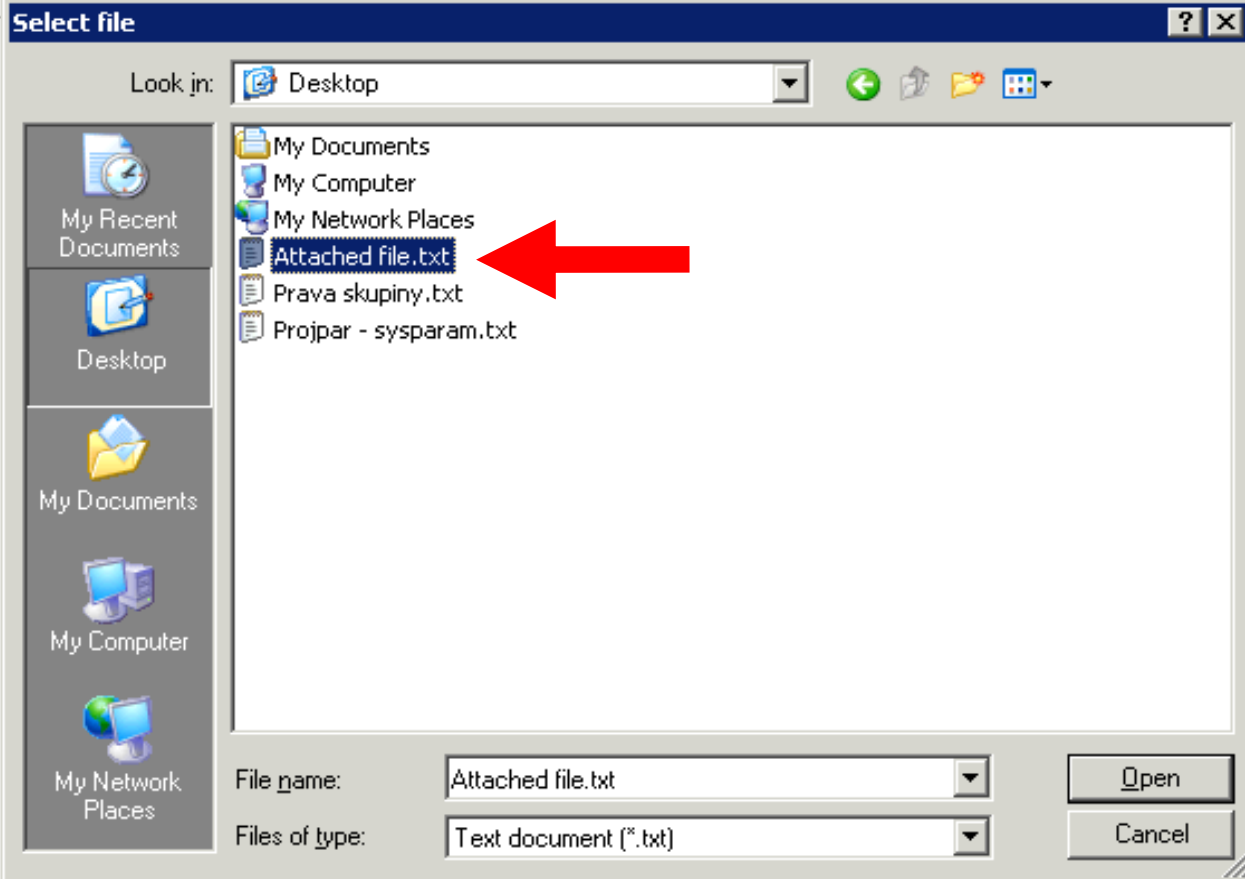
Delete file



 Save file

**Files** Double-click to record to open file

	File name	Description
	Projpar - sysparam.txt	
	Attached file.txt	





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## Patient Audit Trail (History)

History of patient BE60265P

User	Operation	On Time	Field Name	Old Value	New Value
Peyerl Karel	Update	9/02/2013 19:41:13	ANTIGVER	0	1
Peyerl Karel	Update	9/02/2013 19:41:13	DRB12		03:01
Peyerl Karel	Update	9/02/2013 19:41:13	DNAB2		44:02
Peyerl Karel	Update	9/02/2013 19:41:13	DNAA2		01:02
Peyerl Karel	Update	9/02/2013 19:41:13	DNA2DATEREV		09.02.2013
Peyerl Karel	Update	9/02/2013 19:41:13	DNA1DATEREV		09.02.2013
Peyerl Karel	Update	9/02/2013 19:41:13	DATETIMEEDIT	09.02.2013	09.02.2013
Peyerl Karel	Update	9/02/2013 17:53:10	MEDCHECKWHO	0	6
Peyerl Karel	Update	9/02/2013 17:53:10	DATETIMEEDIT	09.02.2013	09.02.2013
Peyerl Karel	Update	9/02/2013 17:53:10	MEDCHECKDATE		09.02.2013

Navigation icons: << < > >> >>> >>>> >>>>> >>>>>>

Buttons:  

QMS

ISO 9001:08

ISMS

ISO 27001:05

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**Stack of Patients 1**

Patient ID	Name
BE60265P	Peyerl Karel
BE59190P	Test Test

**Active stack**

1 2 3

✓ ✗ ?

**Buttons:** Add Remove Remove all Export

# PROMETHEUS

## Reports (printed reports)

**Patient reports – Reports button or Patient Menu → Reports**

- **Reports for single patient records.**
- **Special reports (statistics)**
- **Stack related reports**

**Reports may be printed or saved in PDF format.**



# PROMETHEUS

F4
 
 1/1
 1:1
 



 ?

Print + Close (F1)   2x Print + Close (F2)   3x Print + Close (F3)   4x Print + Close   Grid

cm 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Patient BE60265P  
 Report PAT001

**Marrow Donor Program Belgium - Registry**  
 Motstraat 40  
 2800 Mechelen  
 Belgium

Patient ID . . . . . BE60265P  
 Old/External patient ID . . . . . BE60265P  
 Registry ID . . . . . B  
 Patient center . . . . . BETRAANS1  
 Patient Status . . . . .  
 Closure Reason . . . . .  
 Closure Date . . . . .  
 Death Date . . . . .

Patient's HLA	A or A*	B or B*	C or C*	DR or DRB1	DRB345	DQ or DQB1	DPB1
	01:01	08:02	05:01	12:01		02:01	
	01:02	44:02		03:01			

Drag a column header here to group by that column

Registry	Country	Patient ID	Sex	Birthdate	Date inse	HLAA1	HLAA2	HLAB1	HLAB2	DNAA1	DNAA2
<input type="checkbox"/> Patient number	<input type="checkbox"/> Transpl1 source	<input type="checkbox"/> DRB31								01:01	01:02
<input checked="" type="checkbox"/> Registry	<input type="checkbox"/> Transpl2 center	<input type="checkbox"/> DRB32									
<input checked="" type="checkbox"/> Country	<input type="checkbox"/> Transpl2 date	<input type="checkbox"/> DRB41								01:01	
<input checked="" type="checkbox"/> Patient	<input type="checkbox"/> Transpl2 don. center	<input type="checkbox"/> DRB42								01:01	
<input type="checkbox"/> Patient ID	<input type="checkbox"/> Transpl2 don. ID	<input type="checkbox"/> DRB51								01:01	
<input type="checkbox"/> Patient ID2	<input type="checkbox"/> Transpl2 source	<input type="checkbox"/> DRB52								01:01	
<input type="checkbox"/> Pers. number	<input checked="" type="checkbox"/> HLAA1	<input type="checkbox"/> DQA11								01:01	
<input type="checkbox"/> Last name	<input checked="" type="checkbox"/> HLAA2									01:01	
<input type="checkbox"/> First name	<input checked="" type="checkbox"/> HLAB1									01:01	
<input checked="" type="checkbox"/> Sex	<input checked="" type="checkbox"/> HLAB2										
<input checked="" type="checkbox"/> Birthdate	<input type="checkbox"/> HLAC1										
<input type="checkbox"/> Deathdate	<input type="checkbox"/> HLAC2									02:01	02:05
<input type="checkbox"/> Status of patient	<input checked="" type="checkbox"/> DNAA1									02:01	02:05
<input type="checkbox"/> Insur. comp.	<input checked="" type="checkbox"/> DNAA2									02:01	03:01
<input type="checkbox"/> ABO	<input checked="" type="checkbox"/> DNAB1									02:01	
<input type="checkbox"/> Rh	<input checked="" type="checkbox"/> DNAB2									02:01	
<input type="checkbox"/> Pat. center	<input type="checkbox"/> DNAC1									02:01	
<input checked="" type="checkbox"/> Date inserted	<input type="checkbox"/> DNAC2									01:01	11:01
<input type="checkbox"/> Year inserted	<input checked="" type="checkbox"/> HLADR1									02:XX	03:XX
<input type="checkbox"/> Date changed	<input checked="" type="checkbox"/> HLADR2									23:01	32:01
<input type="checkbox"/> Disease phase	<input type="checkbox"/> HLADQ1										
<input type="checkbox"/> Transpl.	<input type="checkbox"/> HLADQ2										
<input type="checkbox"/> Transpl1 center	<input type="checkbox"/> HLADRW1	<input type="checkbox"/> EMDIS Ethnic			009 24	31	18	60		24:02	31:01
<input type="checkbox"/> Transpl1 date	<input type="checkbox"/> HLADRW2	<input type="checkbox"/> Local Ethnic			010 2	25	7	60		02:01	25:01
<input type="checkbox"/> Transpl1 don. center	<input checked="" type="checkbox"/> DRB11	<input type="checkbox"/> Diagnosis			010 3	24	65	3901		03:01	24:02
<input type="checkbox"/> Transpl1 don. ID	<input checked="" type="checkbox"/> DRB12	<input type="checkbox"/> EMDIS Diag.									
		<input type="checkbox"/> Patient category									

**Custom Filter**

Show rows where:

HLAA2

like

☒ AND ☐ OR

Use \_ to represent any single character

Use % to represent any series of characters

OK Cancel