

EBMT

European Society for Blood and Marrow
Transplantation

Cellular Therapy Forms Manual

*A guide to the completion of the
EBMT Cellular Therapy Forms*



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Introduction

This document contains information on how to complete the latest versions of the EBMT Cellular Therapy data collection forms as published on the EBMT website:

- EBMT Registry 55 Cellular Therapy Form – Pre-Infusion Registration
- EBMT Registry 56 Cellular Therapy Form – Day 0
- EBMT Registry 57 Cellular Therapy Form – Day 100, 6 Months & Annual Follow-Up

It is preceded by the definition of Cellular therapy and information on when a new registration should be submitted to the EBMT. For general information on how to register data please visit <https://www.ebmt.org/registry/how-use-registry>

For downloads of the Cellular Therapy Forms and manual please go to <https://www.ebmt.org/registry/data-collection>

For information on submitting data directly to the EBMT Registry using Castor software please refer to: <https://www.ebmt.org/registry/cellular-therapy-data-collection-castor>

Updated manuals are available to download from the above link. We are grateful for any feedback as to its content (clarity of the definitions, omissions, insufficient background or excessive verbosity, etc.). Please send all comments to the EBMT Cellular Therapy helpdesk at cellulartherapyhelpdesk@ebmt.org.

Cellular therapy registry

The EBMT Registry aims to collect data on advanced cellular therapies used for treatment other than hematopoietic stem cell transplantation (HSCT) as well as data on the clinical characteristics and outcome of the treated patients. Advanced cellular therapies belong to the group of advanced therapy medicinal products (ATMP) which are defined as medicines for human use that are based on genes, tissues or cells.

Advanced cellular therapies can be infused individually, sequentially or in combination with other treatments, including HCST. The Cellular Therapy Form design takes advantage of pre-existing data collection forms and rules for reporting to the EBMT Registry; however, it can be used independent of whether the patient has received some form of cell transplant previously or not.

Background

The therapeutic potential of ATMPs like cytotoxic T-cells, tumour vaccines and mesenchymal stem cells (MSCs) is undergoing extensive clinical testing in areas such as cancer, tissue repair and immunomodulation (regenerative medicine and immunotherapy). While some ATMPs are already on the market, additional ATMPs may soon become available to treat patients suffering from autoimmune, neurologic and hematologic disorders, heart disease and or other diseases.

Pharma companies are currently developing ATMPs made of living hematopoietic cells that may be genetically engineered in vitro e.g. in order to express the wild-type form of a gene that is mutated in the patient, or to generate a fully artificial molecule such as chimeric antigen receptor (CAR), allowing for improved recognition of target antigens. The latter is used to generate CAR-T cell therapies.

Although these therapies may be promising and prove to be of clinical use, clinical trials are often small with a limited Follow-Up time. The detection of long-term beneficial effects, as well as late and rare side effects would require a large number of patients followed over many years.

The EBMT Registry collects data on patients treated with these novel cellular therapies to allow for analyses of their risk and benefits.

Currently the EBMT Registry only collects information on advanced cellular therapies in the context of - HSCT/CT treatments in haematology and oncology, either as treatment of the primary disease (e.g. leukaemia, MPD, MDS, lymphoma etc), or treatment of associated complications (supportive care, immune modulation etc) Please contact cellulartherapyhelpdesk@ebmt.org if you want to register an advanced cellular therapy use for a non-oncologic/haematologic diagnosis.

Registration of new Cellular Therapy treatments

The Cellular Therapy Form consists of three sub-forms: Pre-Infusion Registration (including Disease Classification Sheets), Day 0 and Follow-Up. The Day 0 form should be registered in the EBMT Registry database straight after the CT infusion. The Follow-Up should be recorded at 100 days, 6 months, 1 year after the treatment date and then annually or at time of death, whichever occurs first.

If the patient had a previous Cellular Therapy or a stem cell transplant please make sure that this previous treatment is registered and that the latest Follow-Up was recorded using appropriate [Follow-Up forms](#) before proceeding. This is so we can capture relapse data and other events between the transplant/advanced cellular therapy.

The centre should not fill in the Pre-Infusion Registration form if:

- the centre only acts as a referral centre.
- the centre is only involved in following the patient after therapy which has been performed elsewhere.
- the cell collection has been performed at this centre but the infusion has been performed elsewhere.
- the cells are non-substantially modified hematopoietic cells and the treatment qualifies as HSCT as defined in the MED-AB Forms Manual; in this case submit the HSCT MED-AB data collection forms <https://www.ebmt.org/registry/data-collection>.
- the treatment is an Autologous Stem-Cell-Based Gene Therapy for Inherited Disorders. In this case submit MED-AB data collection form for Inherited Disorders which contains an extended genetic manipulation section.

- used to report donor lymphocyte infusions (DLIs). The Cellular Therapy Form should not be used at all. DLIs can be reported using standard HSCT MED-A or MED-B Follow-Up forms.

How many Cellular Therapy Forms should be submitted?

To understand how many forms need to be filled in, consult the flowchart in [Appendix A](#). Additionally, the following definitions are important:

- Cellular therapy treatment: the infusion of one or more units with one indication as selected on the form, where the total units infused are separated by less than 100 days.
- Cellular therapy infusion unit: an infusion unit is a product consisting of one or more bags with the same type of manipulated cells, from the same donor (one) and with a unique batch or product number. If different manipulated cell types were used, cells from multiple donors or there are different identification codes for multiple bags, these are regarded as different infusion units.
- Cellular therapy infusion episode: the infusion of one or more units on one day. If the cellular therapy infusion units were infused over multiple days, this is regarded as multiple infusion episodes.

Timing

Disease Classification Sheet. All information contained in the Pre-Infusion Registration form (incl. Disease Classification Sheet unless the cellular therapy was given for a complication) must be recorded in the EBMT Registry database as soon as the centre emits the order for the cellular therapy to the market authorisation holder or the patient undergoes cell collection to procure the starting material.

All information contained in the Day 0 form must be recorded in the EBMT Registry database as soon as possible after the first cellular therapy infusion.

No items can be left blank unless specifically stated in the definition. If the item is marked as “unknown”, you might be asked for this information again at the time of data quality checks.

Follow-up

Follow-up should be submitted 100 days, 6 months, 1 year after the initial cell infusion and then annually. For each patient only one Follow-Up needs to be submitted per timepoint regardless of the number of cellular therapies and/or HSCT the patient may have received.

If a patient had a previous HSCT, Follow-Up forms for CT only should be used to report follow-up.

Dates

If the exact date of an event is unknown, the following system must be used:

- If only the exact day is unknown, use the first day of the month to report the date, for example: 01-05-2020
- If both the day and month are unknown, use the first of January to report the date, for example: 01-01-2020

Form layout

The data collection on cellular therapy is divided into three forms:

- EBMT Registry 55 Cellular Therapy Form – Pre-Infusion Registration
- EBMT Registry 56 Cellular Therapy Form – Day 0
- EBMT Registry 57 Cellular Therapy Form – Day 100, 6 Months & Annual Follow-Up

In addition to timepoint-specific questions, every section consists of patient identifiers and the survival status at that time point.

Pre-Infusion Registration

The Pre-Infusion Registration covers diagnosis, details about the planned treatment and the planned cellular therapy product(s).

Day 0

The Day 0 form covers previous therapies, the patient's status at cellular therapy including comorbidities, details about the cellular therapy infusion unit(s) and the infusion episode(s).

Follow-Ups

The Follow-Up form should be re-used for day 100, 6 months and annual follow-up. For patients that are not part of post-authorisation studies, the EBMT requests follow-up data at the following intervals:

- Every year if the patient was transplanted less than 10 years ago
- Every 2 years if the patient was transplanted between 10 and 20 years ago
- Every 5 years if the patient was transplanted more than 20 years ago

For patients in post-authorisation studies, annual follow-ups should be completed every year for up to 15 years after the cellular therapy.

The Follow-Up form covers haematologic recovery, response to the cellular therapy, haematological findings, complications, possible additional treatments, disease status, hospital admissions, pregnancy (outcomes) and persistence of infused cells.

Informed consent

Was the patient asked to consent to data submission?

Indicate whether the patient or their legal guardians were asked if they consent to sharing their data with EBMT.

If the answer to this question is 'no', no further data entry can take place.

Date of informed consent

Indicate the date informed consent was given (by signing an informed consent form) by the patient or their legal guardians. Report the date as year/month/day.

Is your centre using the new EBMT consent form?

Indicate whether your centre is using the EBMT consent form.

Did the patient consent to data sharing with health authorities and/or researchers?

Indicate whether the patient or their legal guardians consent to having their pseudonymized data shared with health authorities and/or researchers

Did the patient consent to data sharing with Health Technology Assessment bodies?

Indicate whether the patient or their legal guardians consent to having their pseudonymized data shared with Health Technology Assessment bodies (a public organisation that provides recommendations on medicines and other healthcare interventions that can be paid for or reimbursed).

Did the patient consent to data sharing with Market Authorisation Holders?

Indicate whether the patient or their legal guardians consent to having their pseudonymized data shared with Market Authorization Holders (e.g.: Pharmaceutical Companies).

Did the patient consent to their medical records being reviewed?

Indicate whether the patient or their legal guardians consented to allow monitors to review their pseudonymized medical records.

Centre identification

EBMT Centre Identification Code (CIC)

Every centre that is submitting data to the EBMT receives a CIC, which is populated automatically in ProMISe when a user selects the corresponding centre during data entry.

This item is essential for correct registration of your data.

Hospital

Enter the name of the hospital where the treatment took place.

Unit name

Enter the name of the unit of the hospital where the treatment took place.

Entering this information is important if a centre has more than one unit reporting independently to the EBMT. Ensure that the same name is used in the future.

Unit or team type

Enter the type of the unit or team responsible for the treatment (i.e. Paediatric Haematology, Haematology, Oncology, Rheumatology, etc.). If the field would be a replication of the unit name above, the unit/team type does not need to be filled in.

Contact person

Provide the name of the person responsible for updating or correcting the data recorded in the EBMT Registry database.

Patient data

EBMT Registry Unique Identification Code

This number is a unique number assigned to a patient by ProMiSe, also known as IDAA.

IMPORTANT NOTE: All data for a patient should be entered using the same Identification Code. **The number in Castor should be identical to the number in ProMiSe.**

This includes subsequent transplants and cellular therapies.

Patients transferred to other centres for further treatment must always keep their original Identification Code. If a patient had a prior treatment elsewhere please use the data access request form in the link below to request access to their existing Identification Code:

[Patient Given Previous Treatment in Other Centre.pdf](#)

Date of this report

If data is being entered directly from the patient notes, the 'date of this report' is the date the data is being entered into the registry database. If the data is filled in on a paper form first and then into the registry database, the 'date of this report' is the date the paper form was filled in. This date will remain unchanged regardless of how much more data is added to the patient record in the future.

Hospital unique patient number or code

Number/code used by the treating centre to uniquely identify this patient. This item is compulsory. It must be unique in the centre, and should be sufficient to identify the patient within the hospital environment. The number should not be liable to change. If a patient receives a second treatment, no new number should be assigned: the same unique number for this patient should be used when registering subsequent cell infusions and/or HSCTs.

Other type of patient identification codes

If the centre uses any other identification codes for the patient, this can be entered here. This item is optional.

Initials (first name(s) - surname(s))

Enter the initial of the first name of the patient followed by the initial of the surname of the patient. Make sure there is consistency in the way the identification of the patient is given to ensure the record can always be traced even if the patient remains anonymous.

Date of birth

Enter the patient's exact date of birth.

Sex

Indicate the patient's sex at birth.

ABO group and Rh factor

Select the patient's blood group and rhesus factor status from the dropdown menu.

Indication for cellular therapy

Main indication

Select the indication for the cellular therapy treatment. The treatment can be aimed at one or more indications.

Treatment of a primary disease:

Select this option if the treatment was for a primary disease or disorder. Do not select diseases the patient may have had in the past, unless the procedure being reported is meant to treat these diseases.

After entering the main indication diagnosis, the Disease Classification Sheet corresponding to the main indication needs to be completed. During data entry it can be indicated whether the disease was of secondary origin.

In each Disease Classification Sheet there is a section for sub-classification and disease status specific to the respective diagnosis. Please, use the [Med-AB Forms Manual](#) for information on how to complete Disease Classification Sheets.

Treatment or prevention of complications:

Select this if the therapy was prescribed for the treatment or prevention of complications including infections.

Both:

If the treatment was for both, the primary disease and (prevention of) complications, select 'Both, treatment of primary disease and complications'.

If this cellular therapy is prescribed after a previous HSCT, the original treatment must be registered first using the HSCT Med-AB data collection forms <https://www.ebmt.org/registry/data-collection>. If the patient and/or the relevant treatment of that patient has not yet been registered, the patient and the relevant treatment must be registered before adding the Cellular Therapy Form.

Date of diagnosis

If the patient is being treated for a primary disease, enter the date of diagnosis of the disease for which the patient is being treated.

If the indication for the treatment is a transformed disease or is a secondary malignancy that does not constitute a relapse of the primary disease, enter date of transformation, not the diagnosis date of the original disease.

Basic information on the planned cellular therapy

Clinical setting (tick only 1 box)

Select only one option.

As per marketing approval / Standard of care / Institutional guidelines:

Select this option if the patient is treated with cellular therapy according to the centre's standard of care policies.

Hospital exemption:

Select if the patient is treated with cellular therapy manufactured under the hospital exemption rule.

The hospital exemption rule is a provision under which some cellular therapy products can be manufactured by academic or commercial facilities, and administered to patients either as orphan treatment where no equivalent commercial product is available or in the context of early clinical trials designed to provide proof-of-concept information. By definition any approved product already placed on the market cannot be manufactured in the context of the hospital exemption.

Compassionate use / accelerated access:

Select this option if the patient is treated under compassionate use. These are regulatory provisions under which a cellular product can be administered to a specific patient outside of a clinical trial, upon request and approval from regulatory agencies. Regulations may vary from country to country and some countries may not provide such opportunities. In case of doubt, please check with a clinician in the treating centre.

Investigational drug product (DP) / Clinical trial:

Tick this box if the patient is enrolled in a clinical trial, whether academia-sponsored or industry-sponsored.

If the product was administered in a clinical trial setting or as an investigational product, the following information needs to be reported:

Phase

Indicate the phase of the clinical trial.

Blind trial

Indicate if this is a blind trial. This is a trial where neither the treating doctor nor the patient knows which of the treatments offered in the trial is being given (e.g. placebo vs active substance).

Randomised trial

Indicate if the treatment is allocated randomly to the trial subjects.

Eudract number

Number given to the trial when registered with the European Clinical Trials Database

USA CT number

USA clinical trials number, only applicable to trials (also) conducted in the US. If the clinical trial number (NCT number) is not clearly documented, it can be looked up using the 'Find a Study' feature on www.clinicaltrials.gov

UMIN CT number

Japanese clinical trials number, only applicable to trials (also) conducted in Japan.

Cell origin

Indicate whether the cells infused were collected from the patient (autologous) or from another person (allogeneic).

Autologous:

The cells were collected from the patient who later received their own cells back.

Allogeneic:

The patient received a cellular therapy product prepared from cells collected from another person. Additionally, report if the donor was a new donor or an existing donor. If the donor was unknown or no data was available, skip the 'Donor' page.

Note: in case a product has been manufactured from hematopoietic cells collected from the recipient of an allogeneic cell transplant, after donor hematopoietic chimerism was established, the final product may contain cells of donor origin; however, the starting material is autologous in nature, thus select "Autologous".

Donor

Date of Birth/Age at time of donation

Fill in the donor's exact date of birth or their age at the time of donation (if the date of birth is not available).

Sex of Donor

Select the donor's sex at birth.

Donor ID given by centre

Indicate the donor ID that was assigned to the donor by the treating centre.

Global registration identifier for donors

Fill in the 19-character global registration identifier for donors (GRID) that was assigned to the donor. More information on the GRID, can be found here: <https://wmda.info/professionals/optimising-search-match-connect/why-global-identifier/>.

Donor ID given by the Donor Registry or Cord Blood Bank

Enter the identification code that was assigned to the donor by the donor registry or cord blood bank

ION code of the Donor Registry or Cord Blood Bank

Fill in the Issuing Organisation Number (ION) of the donor registry or cord blood bank. If the code is unknown, it can be found using <https://share.wmda.info/display/WMDAREG/Database>.

EuroCord code for the Cord Blood Bank

If cord blood was used for cellular therapy, fill in the EuroCord code.

Name of Donor Registry or Cord Blood Bank

Enter the name of the donor registry or cord blood bank, and full donor centre (if applicable).

Planned cellular therapy infusion products

If more than one cellular product was planned for infusion, replicate this section for every product.

Multiple cellular infusion products are defined as:

- Products that get different batch numbers after manipulation
- Products taken from multiple donors

If none of the above are applicable for the product, the section only needs to be filled in once.

Is the planned cell infusion product a commercial product?

If the product is manufactured by a pharmaceutical company after market authorization was obtained, the product is considered to be a commercial product. If the product was made by the hospital or administered before market authorization, the product is not commercial.

Is it planned to manufacture more than one cell infusion unit?

If manufacturing of only one unit is planned, select no.

If according to the definition above multiple cellular infusion units are planned, select yes and fill in the number of different cell infusion units that are planned to be manufactured.

Name of the manufacturer

Select the name of the facility which manufactured the infusion product (pharmaceutical or biotech company, cell processing laboratory or another site). If the manufacturer's name is not on the list, select 'other' and specify the name.

Name of the product

Select the product name. If the product name is not on the list, select 'other' and specify the name.

Tissue source

Select the tissue from which the cells were collected, for example, bone marrow or tumour.

Collection procedure

Date of the 1st collection

The collection date is the date when the actual cell collection (apheresis) started, independent of whether a preparatory regimen was necessary or not. Report the date of the first collection.

Number of collections

Report the number of occasions when cells were collected from the donor or patient. Include only those collections that were used for this particular cellular therapy product.

Diagnosis

If the indication for cellular therapy was a primary disease, complete the relevant Disease Classification Sheets. Further information on how to complete the forms can be found in the MEDAB manual: <https://www.ebmt.org/sites/default/files/2020-12/MED-ABFormsManual.pdf>.

Certain items have to be entered into ProMISe.

This concerns:

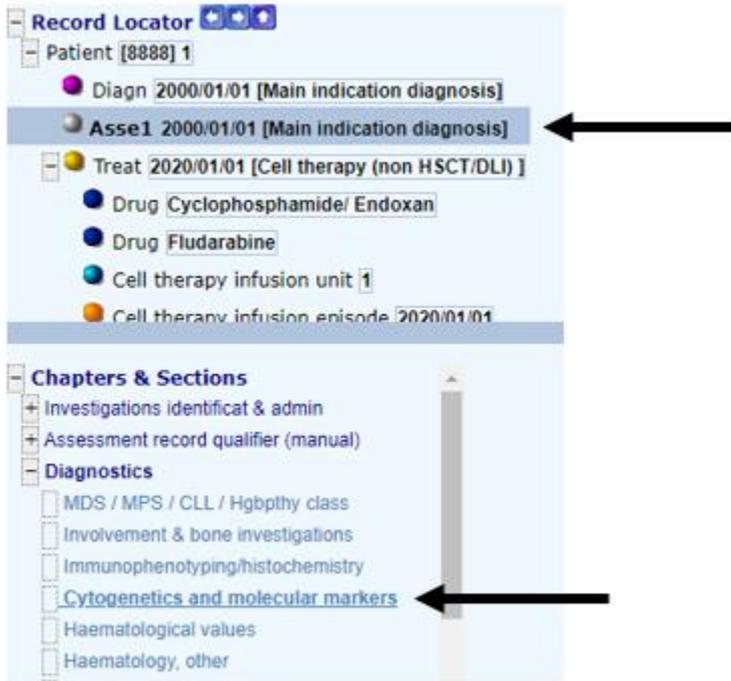
- Cytogenetic abnormalities
- Molecular markers,
- White blood cell counts for acute leukaemia

- International prognostic index (IPI) and KI-67 (proliferation index) for non-Hodgkin B-cell lymphomas
- Grade and stage for multiple myeloma and non-graft treatments that preceded the cellular therapy

Cytogenetics, molecular markers and immunophenotyping

Step 1: Turning off the Dynamic Item Filter

Go to the Diagnostics chapter of the Main indication diagnosis assessment. Continue to the 'Cytogenetics and molecular markers' section:



At the top of the screen, in the menu where the 'Exit' button is, you see an icon of a sheet of paper with binoculars:



Click this. It will turn off the Dynamic item Filter, which makes all items in ProMISe visible. The small number will change from 80 to 0.

You will notice the following expansion of the 'Cytogenetics and molecular markers' chapter:

Assessment(1)	value	label
CIC	8888	8888
Patient	1	1
Assessment date	2000/01/01 00:00	2000/01/01 (exact)
Diagnostics		
MDS / MPS / CLL / Hgbpthy class		
Involvement & bone investigations		
Disease involvement / metastasis		
Size of largest mass		
Immunophenotyping/histochemistry		
Immunophenotyping done?		
Cytogenetics and molecular markers		
Chromosome analysis		
Molecular or other type of markers		
Haematological values		
Haematology, other		
Biochemistry		
LDH levels		

Before

Assessment(1)	value	label
CIC	8888	8888
Patient	1	1
Assessment date	2000/01/01 00:00	2000/01/01 (exact)
Diagnostics		
MDS / MPS / CLL / Hgbpthy class		
Involvement & bone investigations		
Immunophenotyping/histochemistry		
Immunophenotyping done?		
CD4+ PLL Immunophenotyping		
CD8+ PLL Immunophenotyping		
Source for immunophenotyping		
Positive immunohistochemistry		
Cytogenetics and molecular markers		
Chromosome analysis		
Technique used for cytogenetics		
Complex karyotype: Are there 3 or more abnormalities		
Monosomal karyotype		
Number metaphases with abnormalities		
Number metaphases examined		
VH gene status		
VH3-21 status		
Chromosomal breakage test (for Fanconi only)		
Molecular or other type of markers		
Haematological values		
Haematology, other		
Biochemistry		

After

Step 2: Entering the relevant overarching data

Not all of the items that were added to the table are relevant. In the image below, the questions that need to be answered are indicated with an arrow. The first one is 'Immunophenotyping done?', where it needs to be filled in if an immunophenotyping test was performed. After that, move on to 'Chromosome analysis'. Answer here if the cytogenetics were normal, abnormal, not evaluated or if it is unknown if a cytogenetics analysis was performed. Next, add the technique that was used for the analysis and if there were 3 or more abnormalities noted.

Assessment(1)	value	label
CIC	8888	8888
Patient	1	1
Assessment date	2000/01/01 00:00	2000/01/01 (exact)
Diagnostics		
MDS / MPS / CLL / Hgbpthy class		
Involvement & bone investigations		
Immunophenotyping/histochemistry		
→ Immunophenotyping done?		
CD4+ PLL Immunophenotyping		
CD8+ PLL Immunophenotyping		
Source for immunophenotyping		
Positive immunohistochemistry		
Cytogenetics and molecular markers		
→ Chromosome analysis		
→ Technique used for cytogenetics		
→ Complex karyotype: Are there 3 or more abnormalities		
Monosomal karyotype		
Number metaphases with abnormalites		
Number metaphases examined		
VH gene status		
VH3-21 status		
Chromosomal breakage test (for Fanconi only)		
→ Molecular or other type of markers		
Haematological values		
Haematology, other		
Biochemistry		

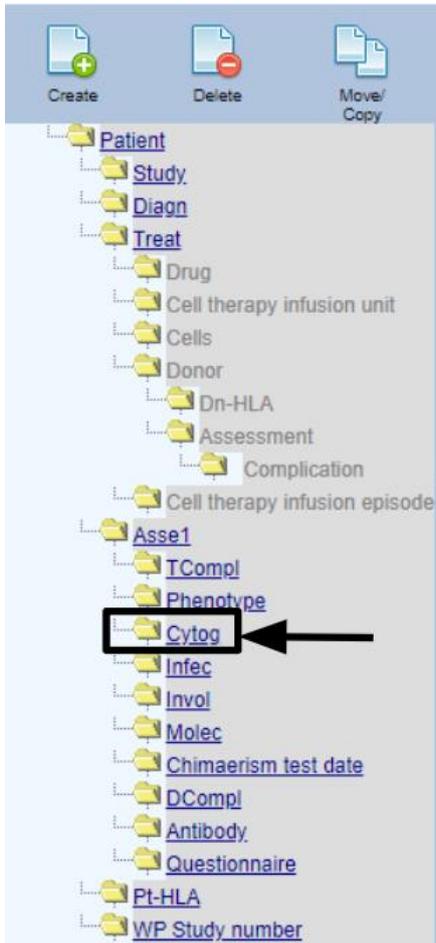
Skip the next questions until the 'Molecular or other type of markers'. Here, fill in if molecular markers were present, absent, not evaluated or if it was unknown if an assessment was performed.

Cytogenetic abnormalities

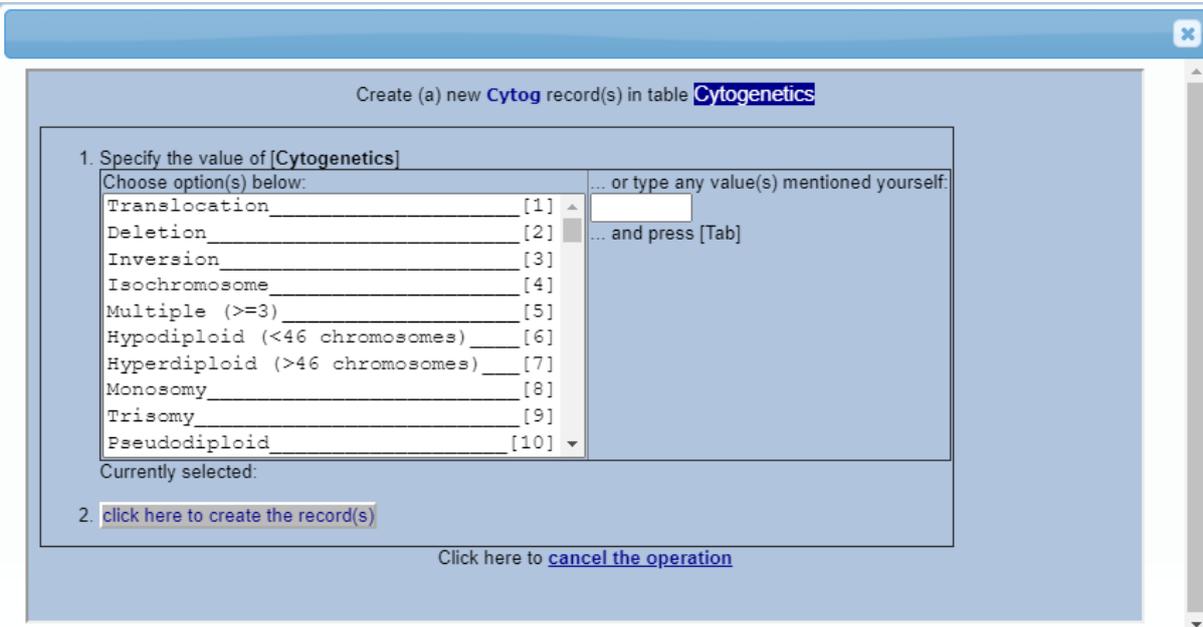
After completing step 1 and 2, the cytogenetic abnormalities need to be added to the assessment record. Click 'Create' in the menu above the patient history:



A long list of items that you can add appears (image *). Keep in mind this only appears if you have the **diagnosis assessment** selected.



Choose 'Cytog' from the list below 'Assessment'. A popup will appear in the screen, where all cytogenetic abnormalities that can be entered into ProMISe are listed:



To quickly get to the abnormality you are looking for, type in the first letter. Press that letter again to get to the right option. You can also type in the number in the box on the right side if you know the number of the abnormality. Common abnormalities for lymphoma and B-cell ALL are summarised in the table below.

	Abnormality	ProMISe Code
DLBCL	t(2;8)	161
	t(8;14)	162
	t(8;22)	163
	t(14;18)	114
	myc rearrangement	164
	BCL-2 rearrangement	165
	BCL-6 rearrangement	166
B-cell ALL	t(9;22)	101
	11q23	108
	t(4;11)	102
	Hyperdiploidy (>46 chromosomes)	6
	t(5;14)(q31;q32)	153
	t(1;19)	116
	Trisomy 8	117

After you select the correct abnormality from the list, press 'Click here to create the record(s)'. You will be sent to a new table in ProMISe, which looks like this:

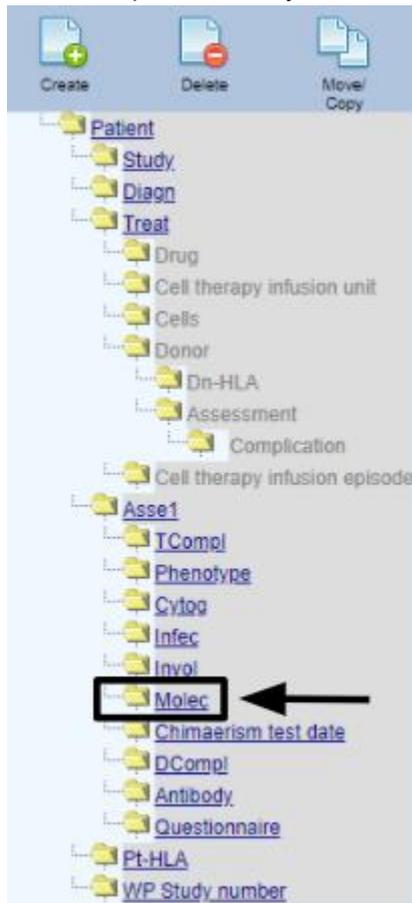
Cytogenetics	value	label
CIC	8888	8888
Patient	1	1
Assessment date	2000/01/01 00:00	2000/01/01 {exact}
Cytogenetics	164	myc rearrangement
Cytogenetics		
Chromosomal aberrations		
Abnormality present or absent		
Describe the abnormalities		
FISH analysis		
New record creation		
Index code for new abnormalities		

The only thing that needs to be entered is the first item, 'Abnormality present or absent'. Except for when you chose 'Other abnormality' or 'Full Karyotype', then you also need to fill in 'Describe the abnormalities'.

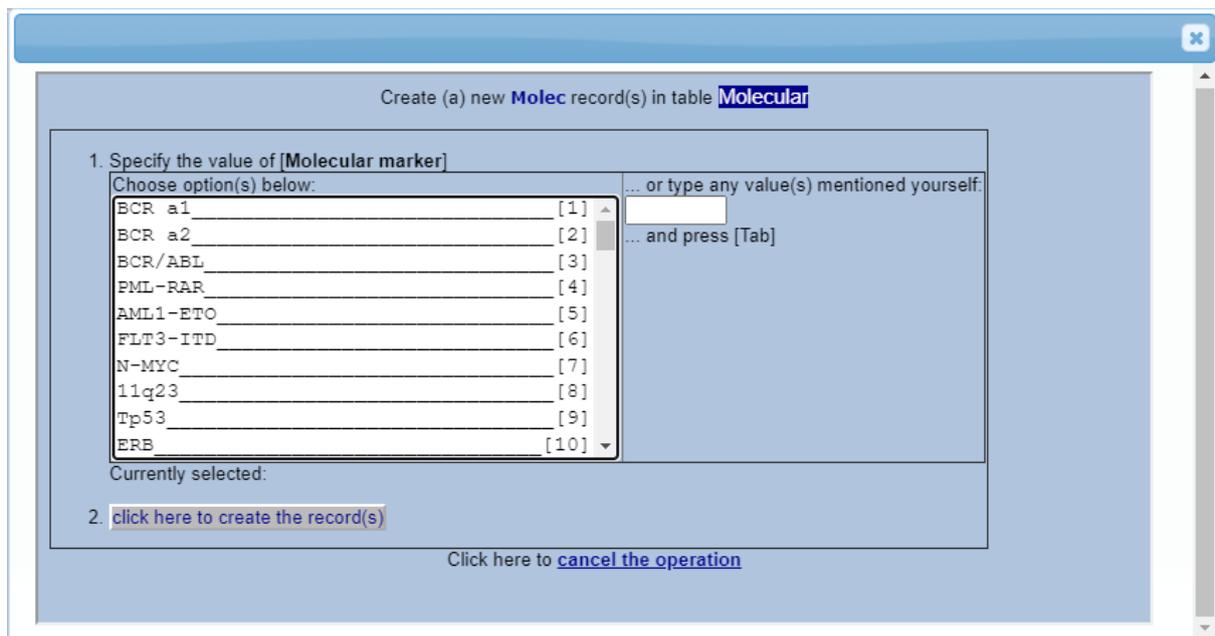
As many cytogenetic abnormalities as necessary can be added.

Molecular markers

After completing step 1 and 2 ,again select the diagnosis assessment. Click 'Create' in the menu above the patient history: choose 'Molec' from the list below 'Assessment'.



A popup will appear in the screen, where all molecular markers that can be entered into ProMISe are listed:



Create (a) new **Molec** record(s) in table **Molecular**

1. Specify the value of [**Molecular marker**]

Choose option(s) below:

<input type="checkbox"/> BCR a1	[1]
<input type="checkbox"/> BCR a2	[2]
<input type="checkbox"/> BCR/ABL	[3]
<input type="checkbox"/> PML-RAR	[4]
<input type="checkbox"/> AML1-ETO	[5]
<input type="checkbox"/> FLT3-ITD	[6]
<input type="checkbox"/> N-MYC	[7]
<input type="checkbox"/> 11q23	[8]
<input type="checkbox"/> Tp53	[9]
<input type="checkbox"/> ERB	[10]

... or type any value(s) mentioned yourself:
... and press [Tab]

Currently selected:

2. [click here to create the record\(s\)](#)

[Click here to cancel the operation](#)

To quickly get to the marker you are looking for, type in the first letter. Press that letter again to get to the right option. You can also type in the number in the box on the right side if you know the number of the marker. Common markers for lymphoma and B-cell ALL are summarised in the table below.

	Marker	ProMISe Code
DLBCL	myc	42
	BCL-2 rearrangement	43
	BCL-6 rearrangement	44
B-cell ALL	BCR-ABL	3
	MLL-rearrangement/mutation	100
	AFF1(AF4)-MLL	35
	MLLT1(ENL)-MLL	25
	MLLT3(AF9)-MLL	22
	TEL(ETV6)-AML1(RUNX1)	36
	IL3-IGH	37
	TCF3-PBX1	38
	IKZF1 (IKAROS)	39
	NOTCH1 & FBXW7	40

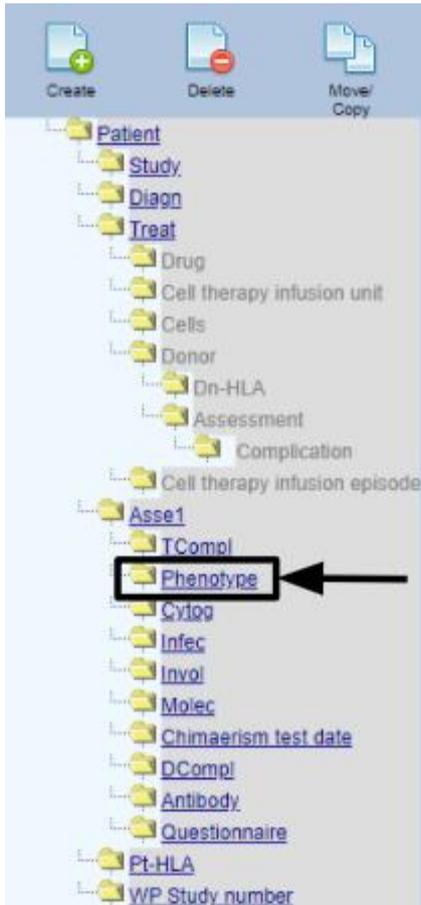
The only thing that needs to be entered is the first item, 'Molecular marker present or absent'. Except for when you chose 'Other', then you also need to fill in 'Other molecular marker, specify'.

Molecular	value	label
CIC	8888	8888
Patient	1	1
Assessment date	2000/01/01 00:00	2000/01/01 {exact}
Molecular marker	100	MLL rearrangement/mutation, any
Molecular biology		
Molecular markers		
Molecular marker present or absent?		
Other molecular marker, specify		
New record creation		
Index code for new marker		

As many molecular markers as necessary can be added.

Immunophenotyping

After completing step 1 and 2 ,again select the diagnosis assessment. Click 'Create' in the menu above the patient history: choose 'Phenotype' from the list below 'Assessment'.



A popup will appear in the screen, where all immunophenotypes that can be entered into ProMISe are listed:

Create (a) new **Phenotype** record(s) in table **Immunophenotype**

1. Specify the value of **[Immunophenotype]**

Choose option(s) below: ... or type any value(s) mentioned yourself:
... and press [Tab]

SOX11	[1]
MYC	[2]
BCL-2/IgH	[3]
BCL-6	[4]
CD2	[101]
CD3	[102]
CD4	[103]
CD5	[104]
CD7	[105]
CD8	[106]

Currently selected:

2. [click here to create the record\(s\)](#)

[Click here to cancel the operation](#)

To quickly get to the phenotype you are looking for, type in the first letter. Press that letter again to get to the right option. You can also type in the number in the box on the right side if you know the number of the phenotype. Common phenotypes for lymphoma are summarised in the table below.

	Phenotype	ProMiSe Code
DLBCL	MYC	2
	BCL-2 rearrangement	3
	BCL-6 rearrangement	4

The only thing that needs to be entered is the first item, 'Immunophenotype present or absent'. Except for when you chose 'Other', then you also need to fill in 'Other immunophenotype, specify'.

Phenotype	
Immunophenotype present or absent	
Other immunophenotype: specify	
% of this phenotype	
New record creation	
Index code for new phenotype	

As many phenotypes as necessary can be added.

Finishing

After you have added all the necessary information about cytogenetic abnormalities, molecular markers and/or the immunophenotype, the patient record can be saved. Click 'Save' next to the modifications counter above the patient record.



After the information has been entered and the record has been saved, turn the dynamic item filter back on by clicking on the paper with the binoculars again:

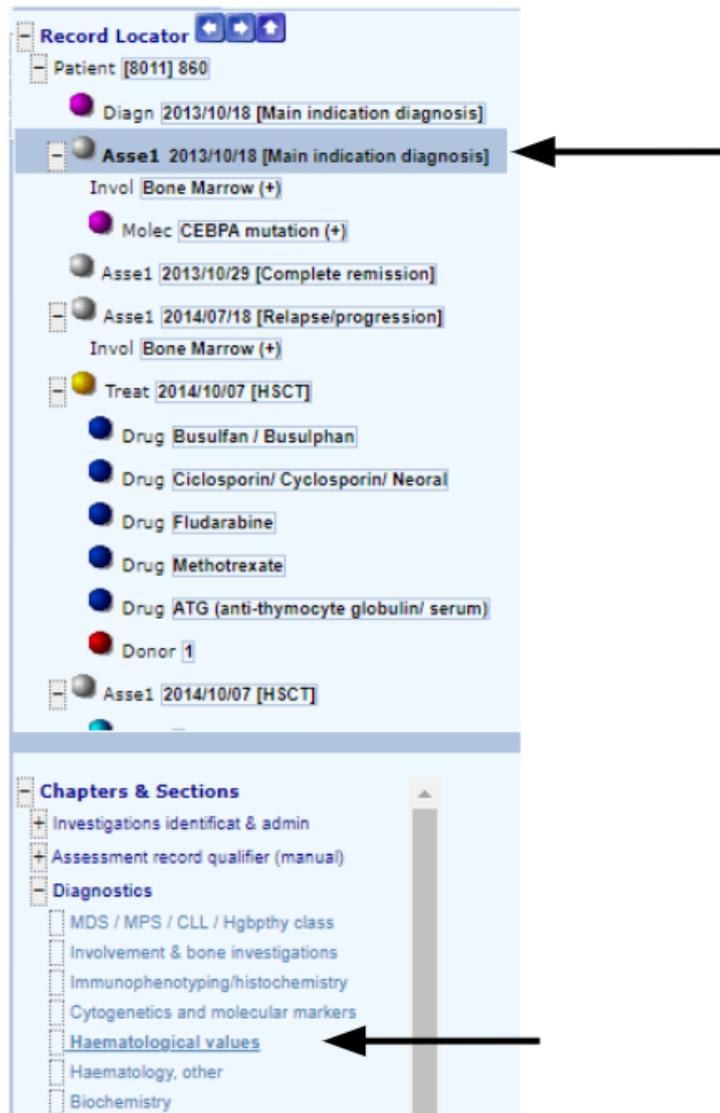


The number next to the binoculars will go back from 0 to 80 (depending on the table that is opened). The dynamic item filter is now turned on. This is the final step.

Entering the white blood cell count at diagnosis

Step 1: Turning off the Dynamic Item Filter

Go to the Diagnostics chapter of the Main indication diagnosis assessment. Continue to the 'Haematological values' section:



At the top of the screen, in the menu where the 'Exit' button is, you see an icon of a sheet of paper with binoculars:



Click this. It will turn off the Dynamic item Filter, which makes all items in ProMISe visible. The small number will change from 80 to 0.

You will notice the following expansion of the 'Haematological values' chapter:

Assessment(1)	value	label
CIC	8011	8011
Patient	860	860
Assessment date	2013/10/18 00:00	2013/10/18 (exact)
Diagnostics		
MDS / MPS / CLL / Hgbpthy class		
Involvement & bone investigations		
Immunophenotyping/histochemistry		
Immunophenotyping done?		
CD4+ PLL Immunophenotyping		
CD8+ PLL Immunophenotyping		
Source for immunophenotyping		
Positive immunohistochemistry		
Cytogenetics and molecular markers		
Chromosome analysis	1	Normal
Technique used for cytogenetics		
Complex karyotype: Are there 3 or more abnormalities		
Monosomal karyotype		
Number metaphases with abnormalities		
Number metaphases examined	9999	unknown
Molecular or other type of markers	2	Present (at least one)
Haematological values		
Haemoglobin		
Haemoglobin: Transfused		
Erythrocyte sedimentation rate		
Platelets		
Platelets: Transfused		
White Blood cells (leukocytes)		
% of Segs		
% of bands		
Lymphocytes		
T-lymphocytes (CD3+) (T-cells)		
CD4+ lymphocytes		
CD8+ lymphocytes		
NK cells (CD56+)		
B-lymphocytes (B-cells)		
Granulocytes		
Neutrophils		
Reticulocytes		
% of lymphocytes in peripheral blood		
% of basophils in peripheral blood		
% of blasts in peripheral blood		
% of monocytes in peripheral blood		
% of eosinophils in peripheral blood		
% of neutrophils in peripheral blood		
Lymphocyte doubling time		
Haematology, other		
Biochemistry		

Before

After

Step 2: entering the relevant data

Not all of the items that were added to the table are relevant. In the image below, only the question that needs to be answered is the one indicated with an arrow. The question is 'White blood cells (leukocytes)':

Assessment(1)	value	label
CIC	8011	8011
Patient	860	860
Assessment date	2013/10/18 00:00	2013/10/18 (exact)
Diagnostics		
MDS / MPS / CLL / Hgbpthy class		
Involvement & bone investigations		
Immunophenotyping/histochemistry		
Immunophenotyping done?		
CD4+ PLL Immunophenotyping		
CD8+ PLL Immunophenotyping		
Source for immunophenotyping		
Positive immunohistochemistry		
Cytogenetics and molecular markers		
Chromosome analysis	1	Normal
Technique used for cytogenetics		
Complex karyotype: Are there 3 or more abnormalities		
Monosomal karyotype		
Number metaphases with abnormalities		
Number metaphases examined	9999	unknown
VH gene status		
VH3-21 status		
Chromosomal breakage test (for Fanconi only)		
Molecular or other type of markers	2	Present (at least one)
Haematological values		
Haemoglobin		
Haemoglobin: Transfused		
Erythrocyte sedimentation rate		
Platelets		
Platelets: Transfused		
White Blood cells (leukocytes)		
% of Segs		
% of bands		
Lymphocytes		
T-lymphocytes (CD3+) (T-cells)		
CD4+ lymphocytes		
CD8+ lymphocytes		
NK cells (CD56+)		
B-lymphocytes (B-cells)		
Granulocytes		
Neutrophils		
Reticulocytes		
% of lymphocytes in peripheral blood		
% of basophils in peripheral blood		
% of blasts in peripheral blood		
% of monocytes in peripheral blood		
% of eosinophils in peripheral blood		
% of neutrophils in peripheral blood		
Lymphocyte doubling time		
Haematology, other		
Biochemistry		

Finishing

After the information about the white blood cell count at diagnosis has been added, the patient record can be saved. Click 'Save' next to the modifications counter above the patient record.



After the information has been entered and the record has been saved, turn the dynamic item filter back on by clicking on the paper with the binoculars again:



The number next to the binoculars will go back from 0 to 80 (depending on the table that is opened). The dynamic item filter is now turned on. This is the final step.

Entering IPI and KI-67

[1] Turning off the Dynamic Item Filter

Go to the Diagnostics chapter of the Main indication diagnosis assessment. At the top of the screen, in the menu where the 'Exit' button is, you see an icon of a sheet of paper with binoculars:



Click this. It will turn off the Dynamic item Filter, which makes all items in ProMISe visible. Make sure the number next to the binoculars is '0'.

Entering International prognostic index (IPI)

Go to the 'Assessment' of the main indication diagnosis go to 'Prognostic scores' -> 'Risk index'

The screenshot displays a medical software interface with the following components:

- Toolbar:** Includes icons for Data Entry, Browser/Server, General, and Info. A status bar at the top right shows the time 13:17 and user 'sql15'.
- Actions:** A table with columns for action names and their associated categories.
- Record Locator:** Fields for Patient, Diagn (Main indication diagnosis), and Asse1 (Main indication diagnosis).
- Treat:** Fields for Drug (Cyclophosphamide/ Endoxan, Fludarabine), Cell therapy infusion unit (1), and Cell therapy infusion episode.
- Chapters & Sections:** A list of medical categories including Investigations, Assessment, Diagnostics, Physical examination, and Prognostic scores (highlighted).

The following screen will appear. Complete the 'International Prognostic Index'

The screenshot shows the MEDAB Data Entry interface. At the top, there are menu options: Data Entry, Report, Export, Help, Filter, and MEDAB -- [8411]. Below the menu is a status bar: Resume with the first item in the current section by pressing Tab (or click on any other item). The main area has tabs for Index, Editor, and Overview. A table titled 'Assessment(1)' is displayed with columns 'value' and 'label'. The table includes fields for Patient, Assessment date (2020/10/09 00:00), and various prognostic scores. The 'International prognostic index (IPI)' field is highlighted, and a dropdown menu is open, showing the following options:

International prognostic index (IPI)	
1	Low risk (0-1 score points)
2	Low-intermediate risk (2)
3	High-intermediate risk (3)
4	High risk (4 or 5)
77	Not evaluated

Entering KI-67 (Proliferation index)

In the same screen as above complete the 'KI-67 (Proliferation index)'. Add a percentage or otherwise unknown/not evaluated.

The screenshot shows the MEDAB Data Entry interface. At the top, there are menu options: Data Entry, Report, Export, Help, Filter, and MEDAB --. Below the menu is a status bar: Resume with the first item in the current section by pressing Tab (or click on any other item). The main area has tabs for Index, Editor, and Overview. A table titled 'Assessment(1)' is displayed with columns 'value' and 'label'. The table includes fields for Patient, Assessment date (2020/10/09 00:00), and various prognostic scores. The 'KI-67 (Proliferation index)' field is highlighted, and a dropdown menu is open, showing the following options:

KI-67 (Proliferation index)	
888.8	Not evaluated
999.9	unknown

Entering if disease was of secondary origin or transformed

Go to the 'Diagn' of the **main indication diagnosis** go to 'Other diagnosis and secondary disease' -> 'secondary origin'

The screenshot displays a medical software interface with a top toolbar and a main content area. The toolbar includes icons for Data Entry, Browser/Server, General, and Info. The main content area is divided into several sections:

- Actions:** A table with columns for action names and their corresponding values.
- Record Locator:** A section for patient identification, including a patient name field.
- Diagnosis Tree:** A hierarchical list of diagnosis types and specific treatments.
- Chapters & Sections:** A list of categories for diagnosis classification, including 'Other diagnosis & secondary disease'.

Actions	
Form about to be...	Cell Therapy: Day 0
Med-B over Med-A	?
UPN	?
Date of birth	1...
Are you adding M...	?

Record Locator

Patient []

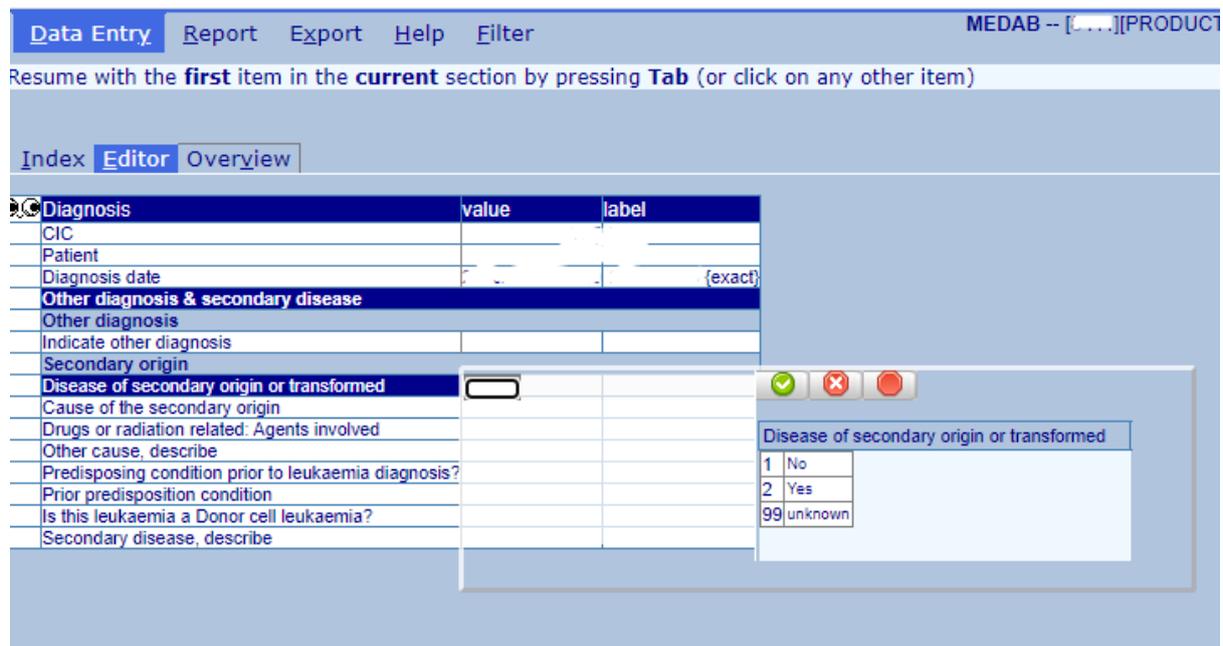
Diagnosis Tree:

- Diagn : [] [Main indication diagnosis]
- Asse1 : [] [Main indication diagnosis]
- Treat : [] [Cell therapy (non HSCT/DLI)]
 - Drug Cyclophosphamide/ Endoxan
 - Drug Fludarabine
 - Cell therapy infusion unit 1
 - Cell therapy infusion episode []
- Asse1 2 : [] [Cell therapy (non HSCT/DLI)]

Chapters & Sections:

- Diagnosis identification & administr
- Diagnosis record qualifier (manual)
 - Date precision
 - Event
- Diagnosis classification
 - Leukaemias
 - Lymphomas
 - Plasma cell disorders
 - Solid tumours
 - Grade and staging
 - Myelodysplastic & myeloproliferative
 - Non malignancies
 - Inheritance
- Other diagnosis & secondary disease**
 - Other diagnosis
 - Secondary origin
- Global subclassification
- New record creation

The following screen will appear:



Complete **Disease of secondary origin or transformed**

Note: In case the disease is of secondary origin or transformed from another disease, please enter this disease also in the Registry as a (non-indication) **diagnosis**.

Entering MM Grading

[1] Turning off the Dynamic Item Filter

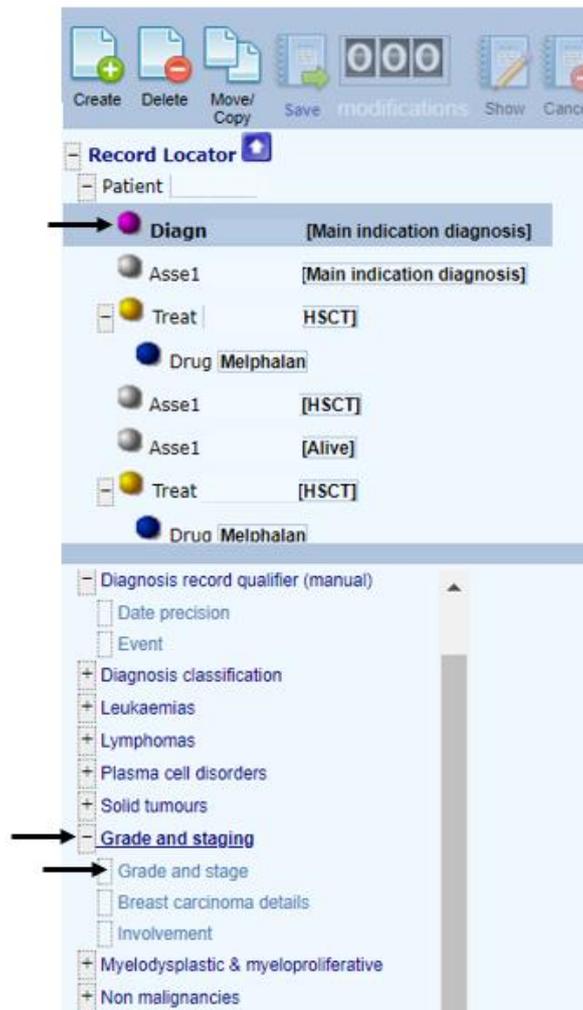
Go to the Diagnostics chapter of the Main indication diagnosis assessment. At the top of the screen, in the menu where the 'Exit' button is, you see an icon of a sheet of paper with binoculars:



Click this. It will turn off the Dynamic item Filter, which makes all items in ProMISe visible. Make sure the number next to the binoculars is '0'.

Entering grade and staging for Multiple Myeloma patients

Go to the Main indication diagnosis record. Open the section Grade and staging



The following screen will appear.

For entering the Salmon and Durie stage please complete both the Stage and the number:

Staging at diagnosis:

Salmon & Durie staging for multiple myeloma:
(Please tick both columns.)

Stage	Symptoms
<input type="checkbox"/> I	<input type="checkbox"/> A
<input type="checkbox"/> II	<input type="checkbox"/> B
<input type="checkbox"/> II	

Complete the **Stage** and choose from the list (I, II, III)

Index Editor Overview

Diagnosis	value	label
CIC		
Patient		
Diagnosis date	2011/12/09 00:00	2011/12/09 (exact)
Grade and staging		
Grade and stage		
Histological grading		
TNM classification		
TNM: Primary Tumour		
TNM: Regional Lymph Nodes		
TNM: Distant Metastasis		
Stage		
Stage A or B (Salmon & Durie)		
ISS (International Staging System)		
Systemic symptoms		
Histological subclassification		
Breast carcinoma details		
Non inflammatory / inflammatory		
Estrogen receptor (ER) status		
Estrogen receptor values		
Progesterone receptor (PgR) status		
Progesterone receptor values		
HER2/neu (c-erb-B2) receptor status		
HER2/neu receptor status defined by:		
Axillary lymphnodes: number positive		
Axillary lymphnodes: number examined		
Sentinel node grading		
Scarff-Bloom-Richardson grading		
Ductal carcinoma		
Lobular carcinoma		
Ductal or lobular carcinoma		
Involvement		

Stage dropdown menu:

1	I
2	II
3	III
88	Not evaluated
99	Unknown

Then complete **Stage A or B (Salmon & Durie)** and choose from the list (A, B)

Index Editor Overview

Diagnosis	value	label
CIC		
Patient		
Diagnosis date	2011/12/09 00:00	2011/12/09 (exact)
Grade and staging		
Grade and stage		
Histological grading		
TNM classification		
TNM: Primary Tumour		
TNM: Regional Lymph Nodes		
TNM: Distant Metastasis		
Stage		
Stage A or B (Salmon & Durie)		
ISS (International Staging System)		
Systemic symptoms		
Histological subclassification		
Breast carcinoma details		
Non inflammatory / inflammatory		
Estrogen receptor (ER) status		
Estrogen receptor values		
Progesterone receptor (PgR) status		
Progesterone receptor values		
HER2/neu (c-erb-B2) receptor status		
HER2/neu receptor status defined by:		
Axillary lymphnodes: number positive		
Axillary lymphnodes: number examined		

Stage A or B (Salmon & Durie) dropdown menu:

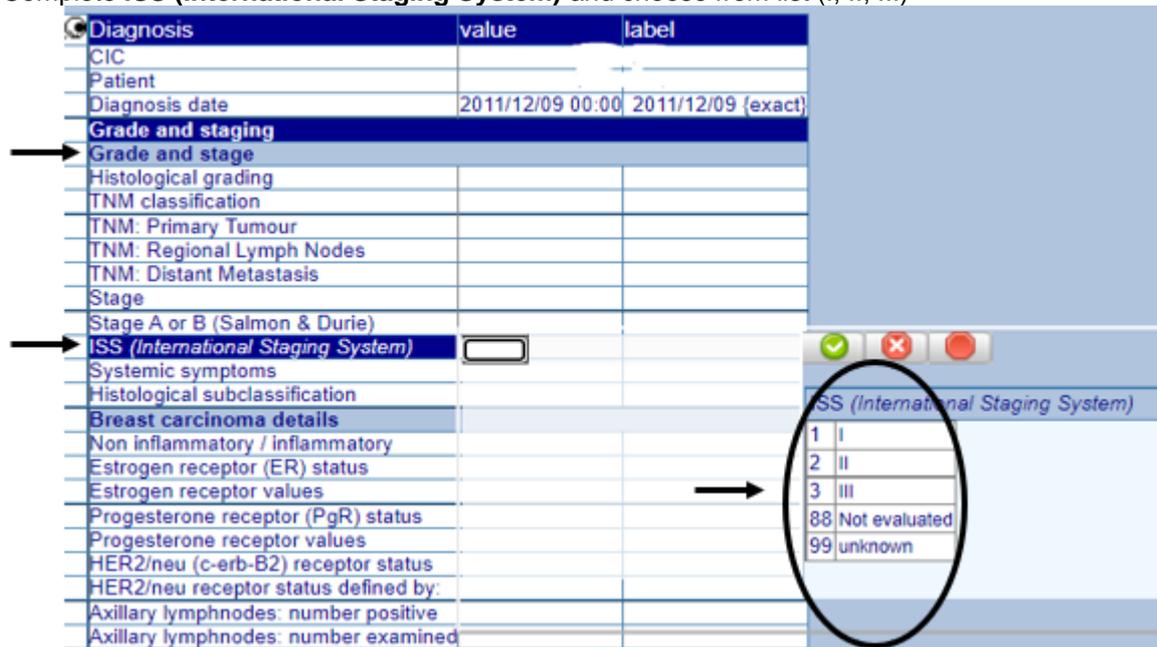
1	A
2	B
88	Not evaluated
99	unknown

For the ISS:

ISS STAGE:

Stage	$\beta 2$ - μ glob (mg/L)	Albumin (g/L)
<input type="checkbox"/> I	< 3.5	> 35
<input type="checkbox"/> II	OR < 3.5 3.5 \leq 5.5	< 35 any
<input type="checkbox"/> III	> 5.5	any

Complete **ISS (International Staging System)** and choose from list (I, II, III)



Entering non-graft treatments

[1] Turning off the Dynamic Item Filter

Go to the Diagnostics chapter of the Main indication diagnosis assessment. At the top of the screen, in the menu where the 'Exit' button is, you see an icon of a sheet of paper with binoculars:

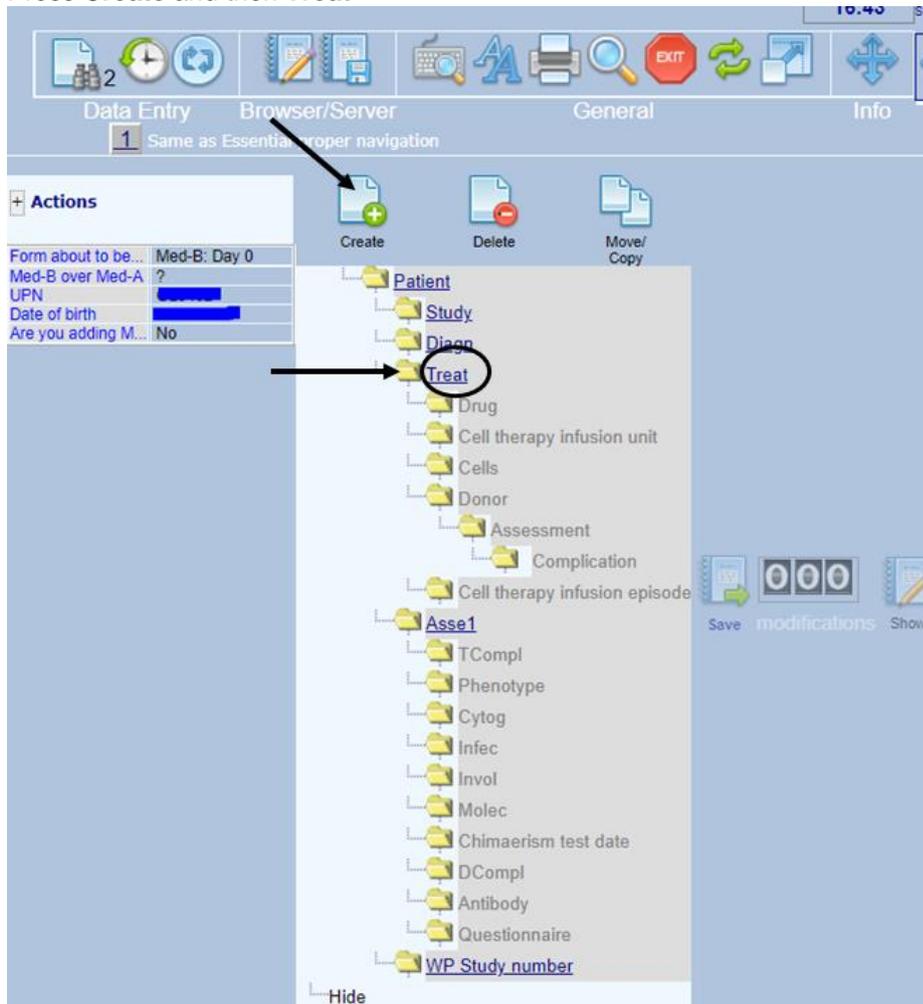


Click this. It will turn off the Dynamic item Filter, which makes all items in ProMISe visible. Make sure the number next to the binoculars is '0'.

Entering pre-treatments

When the patient has had a previous non-graft treatment (e.g. chemo) for their Lymphoma, Leukaemia or Multiple Myeloma please enter these drug(s) and/or regimen(s) in Promise.

Press **Create** and then **Treat**



The following screen will appear

The screenshot shows a dialog box titled 'Create (a) new Treat record(s) in table Treatment'. It contains the following fields and options:

- 1. Specify the value of [Treatment date]
A table with columns for year, mm, dd, and a dropdown menu for 'exact' or 'approximate?'. There is a 'today' button and a link to 'click here to create the record(s)'.
- 2. [click here to create the record\(s\)](#)
- To create multiple records in one action ...
 - Check this box
 - specify the number of records

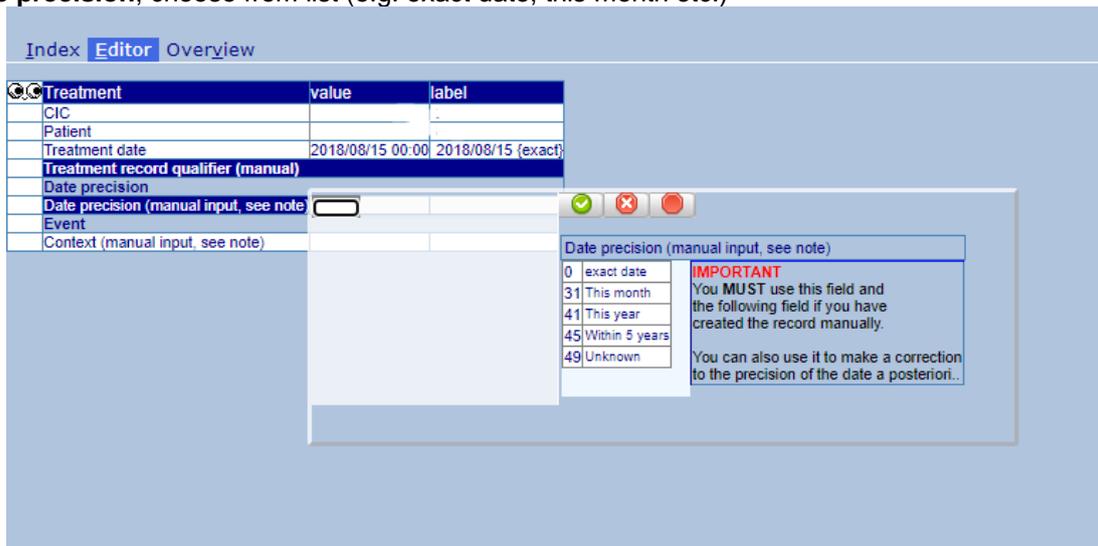
(records will be generated by incrementing the start value with unit(s) until the requested number of new records is reached) and proceed as indicated above.

Click here to [cancel the operation](#)

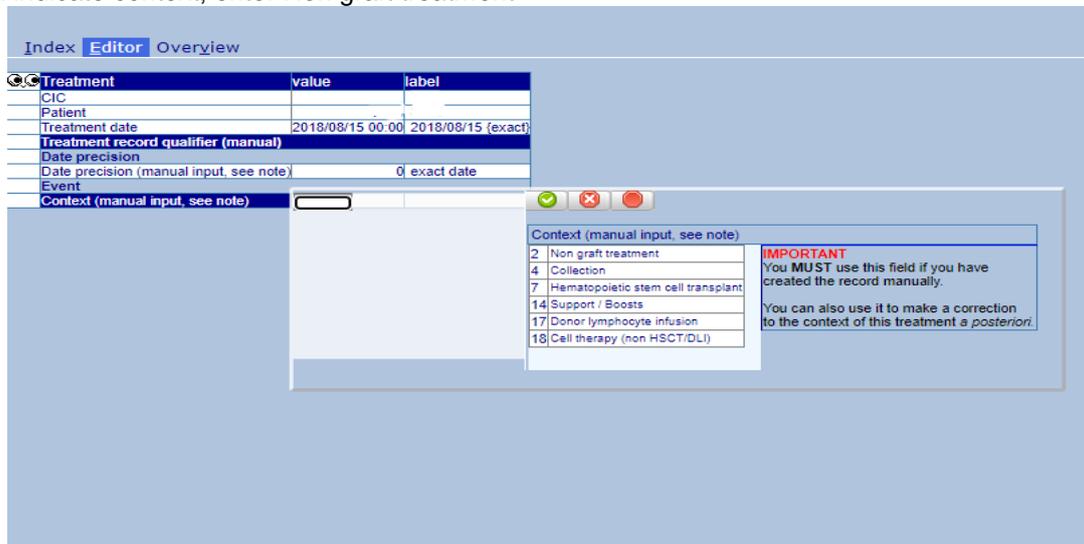
Enter start date of drug (regimen) given: year / month/ day and click on **click here to create record**

The following screen will appear.

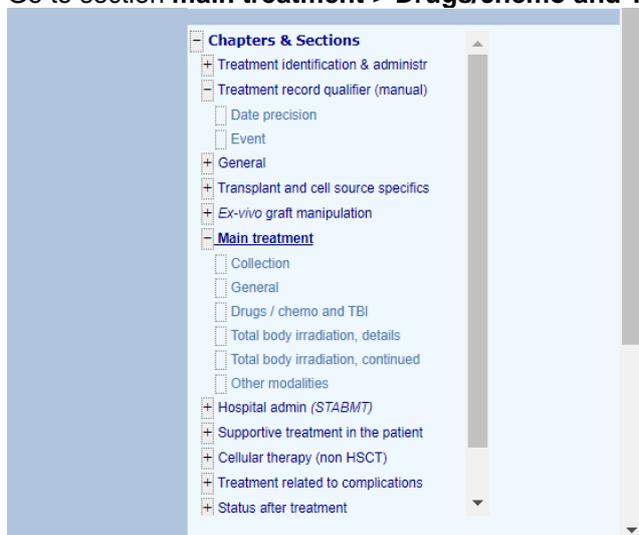
Date precision; choose from list (e.g. exact date, this month etc.)



Then indicate context; enter Non graft treatment



Go to section **main treatment > Drugs/chemo and TBI**



Drugs or chemotherapy > Yes

Index Editor Overview

Treatment	value	label
CIC		
Patient		
Treatment date	2018/08/15 00:00	2018/08/15 (exact)
Main treatment		
Collection		
Number of this mobilisation		
Number of courses from CR to collection		
Number of courses from collection to graft		
General		
Preparative (conditioning) treatment		
Regimen intended to be myeloablative (<i>full intensity</i>)		
Reason for non myeloablative (<i>reduced intensity</i>) regimen		
Other or additional reason for non myeloablative		
Remission induction or key therapy		
Sequential number of this treatment		
Reason for this treatment		
Other reason, specify		
Protocol		
Name of the treatment		
Did the 1st line treatment include HSCT?		
Drugs / chemo and TBI		
Drugs or chemotherapy		
Date conditioning chemo started		
Adjuvant chemotherapy		
Neoadjuvant chemotherapy		
TBI		
Total body irradiation, details		
Date conditioning TBI started		
CIC Radiophysics group		
Hospital of radiophysicist group		
Radiophysicist unit		
Radiophysicist phone/fax		
TBI total dose (Gy)		
Maximum superior (+) transverse deviation from TBI dose (%)		
Maximum inferior (-) transverse deviation from TBI dose (%)		
Maximum superior (+) longitudinal deviation from TBI dose (%)		
Maximum inferior (-) longitudinal deviation from TBI dose (%)		
Spleen dose (%)		
Rib cage dose (%)		
Estimated relative volume (%)		
Other important organ		
Dose organ above (%)		
Total body irradiation, continued		
Total dose in lungs (Gy)		
Lung shielded volume(%)		
Number of fractions		
Number of radiation days		
Minimum time gap (hours)		
Dose rate (Gy/min)		
Maximum dose rate		
Eye lenses dose (%)		
Kidneys dose (%)		
CNS dose (%)		
Any other organ at risk		
Dose organ above (%)		
TBI related comments		
TBI comments (cont.)		
Other modalities		

Drugs or chemotherapy

1	No
2	Yes
99	unknown

The following screen will appear. Select the drug or regimen from the list

The screenshot displays a software interface for creating a new record. At the top, there are tabs for 'Index', 'Editor', and 'Overview'. Below these is a table with columns 'Treatment', 'value', and 'label'. The 'Treatment' column contains various codes and labels, including 'CIC', 'Patient', 'Treatment date', and 'New record creation'. A green note is overlaid on the table, stating: 'Note: Select the drug from the list. Drug can be any agent: chemo, growth factor (cytokine), MoAB, polyclonal AB, hormone, etc.' Below the table is a dialog box titled 'Record creation'. The dialog has a close button and a list of drug and regimen codes from 80 to 134. To the right of the list is an 'IMPORTANT' section with the following text: 'If you do not see the drug you are looking for, type "?" to see the whole list. You can also start typing any part of the name of the drug; the list will shrink to only those items that share the text you have typed. There is a help file with an alphabetical list of drugs and protocols. To access it, click on the MEDAB0084.PDF link below. You can save this file to your hard disk. Additional help in MEDAB0084.PDF'.

When drug is created complete the following sections:

- Reason for this drug
- Dose
- Units
- Number of cycles
- Start date
- Stop date

If another drug has been given as part of the line of treatment please enter new drug (1).
If no other drug is given please indicate No More [code 888]

Index Editor Overview

Drugs (Chemo_MoAB_etc)	value	label
CIC		
Patient		
Treatment date	2018/08/15 00:00	2018/08/15 (exact)
Chemo	110	CHOP
Drug treatment		
Indication		
Reason for this drug	7	Treatment for same disease indication for transp
Reason for drug if given during same period for another indication		
In-vivo treatment or ex-vivo culture	1	In vivo
Negative or positive selection		
Identification of donor or CBU unit used by centre		
Number in the infusion order		
Drug administration		
Drug or regimen given	2	Yes
Other drug or chemo, specify if not coded		
Route of administration		
Animal origin		
Other animal origin, specify		
Name of the brand		
Radiolabelled		
Dose of radioactive antibody		
Units of measurement of the radioactivity		
Dose of drug	30	30
Units of measurement	1	mg (milligrams)
Number of cycles	3	3
Type of delivery of the drug		
Period of treatment		
Treatment started on	2018/08/15	2018/08/15
Treatment ended on	2018/09/15	2018/09/15
Ongoing beyond date above		
Drug reaction		
Drug resistance		
New record creation		
CD: Index code for new drug		

Note: If applicable, select an additional drug from the list. Drug can be any agent: chemo, growth factor (cytokine), MoAB, polyclonal AB, hormone, etc.

CD: Index code for new drug

0	-SINGLE DRUG
1	Adriamycine
2	Amsacrine
3	ARA-C/ Cytarabine
4	BCNU/ Carmustine
5	Bleomycine
6	Busulfan / Busulphan
7	Carboplatin
8	CCNU
9	Cyclophosphamide/ Endoxan
10	Chlorambucil
11	Ciclosporin/ Cyclosporin/ Neoral
12	Daunorubicin
13	Dexamethasone
14	Epirubicine
15	Etoposide/ VP16
16	Fludarabine
17	Hydroxyurea
18	Idarubicine
19	Ifosfamide
20	Fluorouracil
21	Melphalan
22	Mercaptopurid
23	Methotrexate
24	Methyl prednisolone/ solone
25	Mitoxantrone
26	Prednisolone/ solone
27	Thiotepa
28	Thioguanine
29	Vincristine

IMPORTANT
If you do not see the drug you are looking for, type "?" to see the whole list.
You can also start typing any part of the name of the drug; the list will shrink to only those items that share the text you have typed.
There is a help file with an alphabetical list of drugs and protocols. To access it, click on the [MEDAB0084.PDF](#) link below. You can save this file to your hard disk.
Additional help in [MEDAB0084.PDF](#)

Indicate best response for this treatment

Go to **status after treatment** > response of the primary disease

Indicate **Best response**

- Chapters & Sections
 - + Treatment identification & administr
 - + Treatment record qualifier (manual)
 - + General
 - + Transplant and cell source specifics
 - + Ex-vivo graft manipulation
 - + Main treatment
 - + Hospital admin (STABMT)
 - + Supportive treatment in the patient
 - + Cellular therapy (non HSCT)
 - + Treatment related to complications
 - **Status after treatment**
 - Response of the primary disease
 - Response of the treatment compli ...
 - + Chapter Y
 - New record creation
 - New record creation
 - Data entry help Tirt

Index Editor Overview

Treatment	value	label
CIC		
Patient		
Treatment date	2018/08/15 00:00	2018/08/15 (exact)
Status after treatment		
Response of the primary disease		
Solid tumour status after treatment		
Best response		
CR confirmed?		
Dale response achieved or assessed		
Response: Molecular remission		
Response: Cytogenetic remission		
Response: Haematological remission		
Laboratory parameter response		
Specify the laboratory parameter		
Criteria used for evaluation		
Response of the treatment complications		
GvHD response to treatment		
Graft function response to treatment		
Immune reconstitution response to treatment		

Best response	Inherited Disorders
10 Stringent CR (sCR)	Use the following equivalence: Cured - Complete remission Improved - Partial remission Worse - Progression
11 - sCR1	
12 - sCR2	
13 - sCR>2	
20 CR	Haemoglobinopathies Use the following equivalence: No transfusion required- Complete remission Transfusions required- Never in CR
21 - CR1	
22 - CR2	
23 - CR>2	
30 PR (>60%)	
31 - PR1	
32 - PR2	
33 - PR>2	
35 Very good PR (>90%)	
36 - VGPR1	
37 - VGPR2	
38 - VGPR>2	
40 Minimal resp (25-50%)/Poor PR	
44 Response	
45 Remission (CR or PR) followed by relapse or progression	
46 Improvement (no CR)	
50 Stable disease / No change / No response	
60 Relapse/Progression	
70 Never in CR	
77 Other	
80 Not evaluable	
83 Not evaluated	
85 Death	
88 Not applicable	
99 unknown	

Day 0

Patient identification

Person responsible for filling in the form

Enter the name of the person who filled in the form. This can be the same person as who is entering the data into the registry database. If the form was printed out and filled in by someone else, report this person's name.

Date of this report

If data is being entered directly from the patient notes, the 'date of this report' is the date the data is being entered into the registry database. If the data is filled in on a paper form, the 'date of this report' is the date the form is filled in. This date will remain unchanged regardless of how much more data is added to the patient record in the future.

Previous therapies given before transplant/CT

Previous therapies refer to any treatment that is given for the indication (disease/complication) before the cellular therapy. Only therapies given for the diagnosis that is the main indication for cellular therapy should be reported. Please note that not only treatments before HSCT should be reported, but also treatments that are given between HSCT and cellular therapies

Has the information requested in this section been submitted with a previous HSCT/Cellular Therapy registration for this patient?

If the information on previous therapies has not been submitted yet, answer 'no' and continue with this section. If the information has been submitted, select 'yes' and continue with the Cellular Therapy section.

Was the patient treated before this cellular therapy procedure?

If the patient was not treated, select 'no' and continue with the next section of the form.

If the patient has been treated for the diagnosis that is the main indication for this cellular therapy, select 'yes', report the starting date and the sequential number of this treatment.

Chemotherapy/drugs given?

Indicate if the patient has been treated with chemotherapy or drugs in previous therapies. If this is not the case, select 'no' and skip the table with treatment lines.

If therapies were given, select 'yes' and provide the requested details in the table.

List all chemotherapy/drugs given during one line of treatment

All lines of chemotherapies and drugs that were given to the patient for the main indication diagnosis for cellular therapy should be listed in the table.

Drug/chemotherapy

Fill in the drug or chemotherapy per treatment line. In Castor, the same drug list as in ProMISe is available. If the applicable regimen (R-CHOP, R-DHAP, VRD, VBAP, VMCP, etc.) is available in the dropdown, the regimen should be selected. If the regimen is not available, report the regimen's drugs individually.

Number of cycles

Report the number of drug or chemotherapy cycles that were given. Note: One 'line' of chemotherapy usually consists of repeated or alternating cycles of drugs according to a certain schedule.

Date started

Report the date this line of treatment was started.

Date ended

Report the date this line of treatment ended.

Radiotherapy

Indicate if the patient underwent radiotherapy in the past.

Radiotherapy start and end date

If the patient received radiotherapy, provide the start and end date of the radiotherapy.

Other treatment

If the patient received any other kind of previous treatments that have not been registered yet, select 'yes' and specify the treatment.

Response to this line of treatment

Report the best response to each line of previous treatment using the section relevant for the main diagnosis the treatment was administered for. Copy the section as many times as necessary.

Patient status at cellular therapy

Performance score: type used

Indicate if the performance score at cellular therapy was calculated using the Karnofsky, Lansky or Eastern Cooperative Oncology Group (ECOG) scale.

Performance score: score

Select the score that reflects the performance status at cellular therapy.

It is not necessary to fill in both the Karnofsky/Lansky and ECOG score, one of them is sufficient. Descriptions of the scores can be found in [Appendix B](#).

Weight at time of cellular therapy

Report the patient's weight in kilograms. The value should represent the weight at the start of the cellular therapy.

Height at time of cellular therapy

Report the patient's height in centimetres. The value should represent the height at the start of the cellular therapy.

B-cell aplasia at the time of cellular therapy?

Report if B-cell aplasia (NCBI: "A condition characterised by extremely low B-cell counts." (1)) was present or absent at the time the infusion took place.

Percentage of B-cells

If B-cell aplasia was present, report the percentage of B-cells.

Disease status at cellular therapy

Select the appropriate disease status the patient is being treated for. For definitions of the different statuses, see the 'Definitions for Disease Status and Response by Disease' documents under 'Clinical Manuals & Reference Documents' on the [EBMT data collection webpage](#).

Comorbidity index

Was there any clinically significant co-existing disease or organ impairment as listed below at the time of patient assessment prior to the preparative regimen?

Review the comorbidity index table on the form, and confirm if any of the listed items are present or not. If at least one comorbidity is present, the entire table needs to be completed.

The answers should represent the situation at the start of the preparative regimen (conditioning/lymphodepleting conditioning regimens) unless otherwise stated in the definitions below. Ensure the answer 'Yes' is only given if the comorbid condition fits the definition found in the form itself.

Were there any additional major clinical abnormalities not listed above and present prior to the preparative regimen?

Specify other additional major clinical abnormalities present prior to preparative treatment not listed in the table above and present prior to the preparative regimen. Report only clinically relevant abnormalities.

Cellular therapy treatment

Was the cellular product infused during this treatment/procedure?

Indicate if the cells that were collected for manufacturing were infused to the patient. If yes, provide the 'Date of the first infusion'. If no infusion took place, provide the 'Reason why the treatment did not take place' by selecting the appropriate answer option

Reason why the treatment did not take place

If the cells were not infused, select the appropriate reason. If none of the answers are applicable, select 'other' and specify the reason. Continue with 'Date of last assessment'.

Date of the first infusion

If the infusion took place, report the date of the first cell infusion.

Date of last assessment

If the infusion did not take place, report the date the patient was last seen by the physician.

Cellular therapy infusion unit(s)

Was there more than one cell infusion unit administered during this treatment?

If according to the flowchart in [Appendix A](#), more than one unit was infused, answer "Yes" here. Copy and fill in the 'Cellular therapy Infusion Unit – Description and Collection' section for each cell infusion unit that was administered.

Cellular therapy infusion units: description

Name of the manufacturer

Select the name of the facility which manufactured the infusion product (pharmaceutical or biotech company, cell processing laboratory or another site). If the manufacturer's name is not on the list, select 'other' and specify the manufacturer.

Name of the product

Select the product name. If the product name is not on the list, select 'other' and specify the product name.

Unique ID of the product

If a unique identification code is available (e.g. serial number), add this here.

Batch number

Report the batch number of the cell infusion unit, if applicable.

Identification of the cell infusion unit given by the centre

Report the cell infusion unit identification that was assigned to the unit by the treating centre. This information is mandatory if more than one cell infusion unit has been used in the same treatment. If there is only one cell infusion unit, enter '1' or any other identification codes the centre used to identify this specific cell infusion unit.

Was the product consistent with specification?

Indicate if the product was consistent with the specifications. Products that are out of specification did not meet the acceptance criteria set by the manufacturer. Consult the physician who approved the product for infusion in case of doubt.

Was the generated cellular product cryopreserved prior to infusion?

Select 'yes' if the cellular product has been cryopreserved (frozen at very low temperatures) prior to infusion at any time point between collection and infusion. If this was not the case, select 'no'.

Cellular therapy infusion unit - manipulation

This section only needs to be filled in for non-commercial products. If the infused product is a commercial product, continue at 'Therapy and Cell Infusion'.

Ex vivo manipulation of the product contained in the cellular therapy infusion unit

Indicate if the cells contained in the infusion unit were manipulated in a laboratory. E.g. selected, modified or genetically engineered.

Processing/Manufacturing facility

Indicate where the cell manipulation took place.

Gene manipulation

Select 'no' if the product was not genetically manipulated. If the product was genetically manipulated, select 'yes' and continue with the subsequent questions on manipulation.

Gene transfer

Indicate if gene transfer was used for gene manipulation.

This is a procedure by which newly acquired DNA is incorporated into the genome of the cell through either recombination or insertion.

Vector

If gene transfer was used, select the vector. If another vector was used, specify the type of vector used. Non-integrating vectors, including RNA electroporation, should also be listed here.

Transgene

If genes were inserted, tick the transgene and specify all targets. If TCR was used, specify the HLA element too. If another transgene was used than the ones listed, specify the type and name.

Gene editing

Indicate if the cells underwent a type of genetic engineering in which DNA is inserted or removed from a genome using artificially engineered nucleases. If gene editing was done, indicate the manipulated gene.

Manipulated gene

Select what genes were manipulated. If another gene was manipulated than the ones listed, specify the gene.

Other gene manipulation

Indicate if a different genetic manipulation not previously listed was used. If yes, specify the manipulation.

Recognition of a specific target/antigen

If the aim of the manipulation was the recognition of a specific target or antigen, tick all applicable targets listed. If it was another virus, fungus, or target, specify. If the target was a tumour or cancer antigen(s), specify all details.

Cell types

Select the cell types that were infused to the patient after apheresis.

Expansion

Indicate if expansion was performed. This is a procedure meant to increase the number of collected cells in the laboratory before infusion.

Activation

Indicate if activation was used. This procedure aims to induce new biological activity(ies) on treated cells.

Induced differentiation

Indicate if the cells were induced to differentiate into different cell types by contact with other cells or stimulation by differentiation inducing factors.

Therapy and cell infusion(s)

Chronological number of cellular therapy for this patient

Indicate the sequential cycle of this cellular therapy. HSCTs or DLIs should not be counted when defining the chronological number of cellular therapy.

Note: if the infusions are given more than 100 days apart, or if the indication for the cellular therapy has changed, the therapy should be considered a new treatment.

If this is not the first Cellular therapy treatment for this patient and the previous Cellular Therapy treatment cannot be registered, please indicate:

Same package/product as for the previous cellular therapy?

Indicate if the same cellular therapy infusion product is being used as for the previous treatment.

Date of last cellular therapy before this one

Report the start date of the most recent cellular therapy treatment.

Type of last cellular therapy before this one

Select the type of cellular therapy.

If the previous therapy was an allogeneic cellular therapy, answer the question about the donor.

Was the same donor used for all prior and current cellular therapy?

If the previous therapy was an allograft, indicate if the same donor has been used for all previous and current cellular therapies.

Was the last cellular therapy performed at another institution?

Report if the patient has received a treatment in another institution. If yes, fill in the subsequent questions.

CIC, name of institution and city

Indicate the other centre's CIC if known. If not known, provide the name of the institution and the city in which the centre is located.

Reason for the cellular therapy: treatment of a primary disease

If the therapy was given for the treatment of a primary disease, select the reason for cellular therapy.

Reason for the cellular therapy: complications:

If the therapy was given for the treatment of complications derived from a previous treatment, indicate if the treatment was related to:

- Graft versus host disease (GvHD)
- Graft function
- Immune reconstitution

Therapy & cell infusions preparative treatment

Did the patient receive preparative (lymphodepleting) treatment?

Indicate if the patient received lymphodepleting chemotherapy prior to the infusion of the cellular product.

In the event of the cellular therapy infusion unit being infused at the same time as an HSCT taking place, the HSCT conditioning/preparative treatment is not to be reported here. In these cases, the correct answer to the question Patient preparative treatment would be “No”.

If the patient received a lymphodepleting treatment, fill in the table.

Name of drug

Report all lymphodepleting drugs that the patient received in preparation for their cellular therapy. The same drug may have several different names depending on the country or product. Please consult the existing drug list (LIST OF DRUG NAMES & SYNONYMS) which can be found on the EBMT website: <https://www.ebmt.org/ebmt/documents/med-ab-list-drug-names-and-synonyms>. This document provides alternative names for many of the drugs in case the name cannot be found in the drop-down menu.

Important note: ‘Other’ should only be used if the drug or its synonym is not listed. In this case, the name of the drug should be given in full; do not use abbreviations.

If the patient received bridging therapy, this should be reported in ‘Previous therapies given before transplant/cellular therapy’.

Total prescribed cumulative dose

Indicate the total cumulative prescribed dose and the units in which the dose is given for each drug. Do not provide daily or weekly doses, but the final cumulative dose received by the time the regimen has ended.

For example, if the dose of a particular drug is 100 mg/m² on days 1 and 2, then 100 mg/m² x 2 days=200 mg/m² and the dose to be entered should be 200 mg/m².

Units

Select the units of the total prescribed cumulative dose. The units listed are those most commonly used. If the units used are different, try to convert the dose as necessary to one of the listed units.

Other type of treatment

Indicate here if any additional treatment was given, e.g.: radiotherapy, photopheresis or any other medical procedure.

Cell infusion episodes

Was there more than one cell infusion episode during this treatment or procedure?

If multiple cell infusions took place, answer “Yes” here. Copy and fill in the ‘Cell infusion episodes’-section for each cell infusion unit that was administered.

If two different cell infusion units are infused simultaneously or within a short interval (within hours), it is considered one cell infusion episode. If the same cell infusion unit is infused on two different days, it is considered two cell infusion episodes.

Number of infusion episodes

If multiple infusion episodes according to the definition above were part of the treatment, indicate the number of infusion episodes.

Cell infusion episode(s): description

Identification of the cell infusion unit given by the centre

If more than one cell infusion unit was administered, report the identification of the unit that was part of the infusion episode.

Date of cell infusion episode

Report the date of the first cellular therapy infusion of the treatment.

For patients receiving cellular therapy for a complication of HSCT, put the date of first cellular therapy treatment, not the date of HSCT.

Route of infusion

Indicate how the cells were infused to the patient.

If the route of infusion is not listed, select "Other route" and specify the infusion route.

Is the exact number of cells infused available?

If the exact number of cells that were infused is not available, select 'no'. If the exact number is known, select 'yes' and fill in the subsequent questions.

Number of cells infused

If the number of cells infused was known, provide the total number of cells infused used during the infusion episode.

Units

If the number of cells infused was known, select the units for the number of cells that were infused.

Cell viability

Report the percentage of cell viability.

Combined /concomitant therapies planned before this cellular therapy to optimise efficiency?

Select 'no' if no combined or concomitant therapies were planned. If combined or concomitant therapies were planned, select 'yes' and specify the therapies.

Treatment given

Indicate if the combined or concomitant therapies were given simultaneously to the cellular therapy infusion or after the cellular therapy episode was finished.

Survival status

Indicate if the patient was alive on the scheduled date of cellular therapy infusion, even if the product was not infused. If the patient died between apheresis and cell infusion, provide the date of death. For further information on the causes of death, see '[Survival status](#)'.

If the patient died shortly after cell infusion, please provide as many details as possible on the Follow-Up form.

Follow-Up

Person responsible for filling in the form

Enter the name of the person who filled in the form. This can be the same person as who is entering the data into the system. If the form was printed out and filled in by someone else, report that person's name.

Date of this report

If data is being entered directly from the patient notes, the 'date of this report' is the date the data is being entered into the registry database. If the data is filled in on a paper form, the 'date of this report' is the date the form is filled in. This date will remain unchanged regardless of how much more data is added to the patient record in the future.

REMINDER NOTE:

If a patient had more than one type of main treatment (e.g. HSCT and Cellular Therapy) it is the responsibility of the centre that performed the most recent treatment (Cellular Therapy or HSCT) to follow-up on the patient. If the patient received both HSCT and CT treatments, the CT Follow-Up form should be filled in.

Recovery

Absolute neutrophil count (ANC) recovery

Indicate if there was ANC recovery. ANC recovery is defined as neutrophils $\geq 0.5 \times 10^9$ cells/L (observed in three consecutive measurements) before additional treatment. If this number was not reached, select 'no' and fill in the date of last assessment.

If the neutrophils never went below 0.5×10^9 cells/L, select 'never below'.

Date of ANC recovery

Enter the first date of 3 consecutive neutrophil counts $\geq 0.5 \times 10^9$ cells/L. This date must be at least 7 days after the last transfusion containing neutrophils.

Platelets $\geq 20 \times 10^9$ cells/L

Indicate if the platelets reached $\geq 20 \times 10^9$ cells/L (observed in three consecutive measurements). If this was not reached, select 'no'. If it was reached, select 'yes' and enter the date of platelet reconstitution. If the date is not available because the patient was discharged, select 'Date unknown; patient discharged before levels reached'. If the date is unknown because the patient was an out-patient, select 'date unknown; outpatient'. If the platelet count was never below 20×10^9 cells/L, select 'never below'

Date platelets $\geq 20 \times 10^9$ cells/L

Report the first date of 3 consecutive values of platelet counts $\geq 20 \times 10^9$ cells/L. This date must be at least 7 days after the last platelet transfusion.

Platelets $\geq 50 \times 10^9$ cells/L

Indicate if the platelets reached $\geq 50 \times 10^9$ cells/L. If this was not reached, select 'no'. If it was reached, select 'yes' and enter the date of platelet reconstitution. If the date is not available because

the patient was discharged, select 'Date unknown; patient discharged before levels reached'. If the date is unknown because the patient was an out-patient, select 'date unknown; outpatient'.
If the platelet count was never below 50×10^9 cells/L, select 'never below'.

Date platelets $\geq 50 \times 10^9$ cells/L

Report the first date of 3 consecutive values of platelet counts $\geq 50 \times 10^9$ cells/L. This date must be at least 7 days after the last platelet transfusion.

Date last platelet transfusion

Report the last date the patient received a platelet transfusion within the follow-up period. If no platelet transfusion took place, select 'not applicable'.

Response to cellular therapy

Best clinical/biological response after the entire cellular therapy treatment

Select the best response achieved since the cellular product was infused. This question is only relevant for day 100- and 6-months Follow-Up.

For example:

- If the patient achieves complete remission before day 100, enter complete remission at day 100- and 6-months Follow-Up (even if the patient relapses after; this question concerns the best response to the treatment).
- If the patient achieves partial remission before day 100, enter partial remission at day 100. If the response turns into complete remission after day 100, the best response at 6 months Follow-Up is complete remission.

See [Med-AB Manual for HSCT](#) for the definition of response in most primary diagnoses.

Date response evaluated

Report the date the best response was observed.

Last contact date for this report

Last contact date for this report

If the patient was alive, enter the date of the last assessment that was as close as possible to the date of the 1st infusion episode in this cellular therapy treatment +100 days, +6 months or + the years since infusion took place.

If no assessment was performed, for example because the patient was lost to follow-up, enter the last contact date after the infusion episode. If a patient died before the specific time point, enter the date of death.

Current haematological findings

Was a haematological investigation performed?

Indicate if a haematological investigation was performed. If this was done, select 'yes' and continue with the subsequent items. If not, select 'no' and continue at 'Performance score'.

Hb

Report the haemoglobin level in grams per decilitre.

Platelets

Report the platelet count in 10^9 cells/L.

Were platelets transfused within 7 days before the date of test?

Indicate if the patient received a platelet transfusion within 7 days before the blood count was assessed.

White blood cells

Report the number of white blood cells per 10^9 cells/L.

Percentage lymphocytes

Report the percentage of lymphocytes

Percentage neutrophils

Report the percentage of neutrophils.

Percentage haematocrit

Report the percentage of haematocrit.

Were red blood cells transfused within 30 days before the date of test?

Indicate if the patient received a red blood cell transfusion within 30 days before the blood count was assessed.

B-cell aplasia since last assessment

Report if B-cell aplasia was present since the last assessment. If B-cell aplasia was present, report the % of B-cells. If B-cell aplasia was treated, report the treatment in the post therapy treatment table.

Percentage of B-cells

Report the percentage of B-cells.

Performance score

Performance score: type used

Indicate if the performance score at cellular therapy was calculated using the Karnofsky, Lansky or Eastern Cooperative Oncology Group (ECOG) scale. Descriptions of the scores can be found in [Appendix B](#).

Performance score: score

Select the score that reflects the performance status at cellular therapy.

It is not necessary to fill in both the Karnofsky/Lansky and ECOG score, one of them is sufficient

Complications since the last report

GvHD

Did graft versus host disease occur?

If the patient did not have an episode of Graft versus Host Disease (GvHD), select 'no' and continue with the 'Other complications' section. If the patient has had GvHD since the last assessment, select 'yes'.

Type of GvHD

Select the type of GvHD that was present since the last assessment. This can be acute or chronic GvHD only, or both.

Acute GvHD: maximum grade

Select the maximum grade of acute GvHD that was observed in the last period.

The maximum grade for acute graft versus host disease (aGvHD) is defined according to the stage presented by the skin, liver and/or gut.

The maximum grade seen during the relevant period being studied is calculated from the table below.

	skin stage	liver stage	upper gut stage	lower gut stage
grade 1	1 or 2 and	0 and	0 and	0
grade 2	3 or	1 or	1 or	1
grade 3		2 or 3 or		>1
grade 4	4 or	4		

The overall grade (or the stage of skin, liver and or gut) should be mentioned in the patients' file. If not clearly stated, ask your physician.

Acute GvHD: type

Indicate if this aGvHD episode is a new onset (first episode), recurrent (resolved since the last report and then recurred) or persistent (continuous since the last report).

Acute GvHD: date of onset

Indicate the onset date of the current aGvHD episode.

Acute GvHD: stage

Select the stage of GvHD per organ.

Organ	Stage	Definition
Skin	0	No rash attributable to acute GVHD
	1	Skin rash < 25% body surface
	2	Skin rash 25-50% body surface
	3	Skin rash >50% body surface erythroderma
	4	Generalised erythroderma with bullous formation, often with desquamation
Liver	0	Bilirubin < 34 micromol/L
	1	Bilirubin 34-50 micromol/L
	2	Bilirubin 51-102 micromol/L
	3	Bilirubin 103-255 micromol/L
	4	Bilirubin > 255 micromol/L

Lower gut	0	No diarrhoea attributable to acute GVHD / diarrhea \leq 500 mL/day
	1	Diarrhoea volume 501 - 1000 ml/day
	2	Diarrhoea volume 1001 - 1500 ml/day
	3	Diarrhoea volume > 1501 ml/day
	4	Severe pain with or w/o ileus
Upper gut	0	No persistent nausea or vomiting
	1	Persistent nausea or vomiting

Acute GvHD: related to cell therapy?

Indicate if the acute GvHD was related to the current Cellular therapy treatment.

Acute GvHD: resolved?

Indicate if the aGvHD was resolved completely before the last assessment date according to the form being completed.

Acute GvHD treatment

Report if this episode of acute GvHD was treated. If yes, indicate the drugs or therapies that were used to treat aGvHD.

Chronic GvHD: episode

Indicate which episode of chronic GvHD is being reported. If it was the first episode, select 'first episode'. If the chronic GvHD was resolved before but started again, select 'recurrence', if it has been ongoing select 'continuous since last reported episode'. If the chronic GvHD was present but resolved during the follow-up period, select 'yes, but resolved', if it was present, resolved and then recurred, select 'yes, but resolved and recurred again'.

Chronic GvHD: date of onset

Indicate the onset date of the current cGvHD episode.

Chronic GvHD: maximum extent during this period

Chronic GvHD is considered limited if it is present only in the liver and/or a localised area of the skin. If the cGvHD affects any other organ(s) or there is generalised skin involvement, it is considered to be extensive.

Chronic GvHD: maximum NIH consensus score during this period

Select the appropriate NIH score. The score should be calculated by the physician. If the score is not reported, select 'Not calculated'.

Toxicities (non-infectious)

For all complications:

- Report the date when the first symptoms of the complications were documented.
- Maximum grade – if the grade is requested, report the maximum grade which was observed during the last reporting period.
- Indicate if a complication was treated and if it resolved before the last assessment date.

Cytokine release syndrome (CRS)

Cytokine-associated toxicity, also known as cytokine storm, is a non-antigen specific toxicity that occurs as a result of high-level immune activation.

- Report the date when the first symptoms of the complications were documented.
- Maximum grade – report the maximum grade which was observed during the last reporting period.
- Indicate if CRS was treated and if it was resolved before the last assessment date.

Scale/criteria used to determine the grade of CRS

Select the grading system that was used to measure the extent of cytokine release syndrome. If a different grading system was used, select 'Other grading system' and specify which system was used.

Neurotoxicity

Indicate which symptoms of neurotoxicity were present by answering 'yes' or 'no' to each question. If a different symptom than the ones listed was present, use the 'Other' item and specify the symptom.

- Altered mental status
 - Aphasia: note grade 3 dysphasia is defined as aphasia.
 - Hemiparesis
 - Seizure(s)
 - Tremors
 - Visual hallucinations
 - Encephalopathy
 - Cerebral oedema
 - Other: If the recipient experienced a symptom of neurotoxicity not listed above, report here and specify the symptom including grade if applicable.
- Report the date when the first symptoms of the complications were documented.
 - Maximum grade – if the grade is requested, report the maximum grade which was observed during the last reporting period.
 - Indicate if a complication was treated and if it resolved before the last assessment date.

Grade 3-4 organ toxicity

- Grade 3: As defined by the CTCAE criteria, grade 3 toxicity represents severe or medically significant but not immediately life-threatening; hospitalization or prolongation of hospitalization indicated; disabling; limiting self-care Activities of Daily Living (ADL), which refer to bathing, dressing and undressing, feeding self, using the toilet, taking medications, and not bedridden.
 - Grade 4: As defined by the CTCAE criteria, grade 4 toxicity represents life-threatening consequences where urgent intervention is indicated.
- Report the date when the first symptoms of the complications were documented.
 - Maximum grade – if the grade is requested, report the maximum grade which was observed during the last reporting period.
 - Indicate if a complication was treated and if it resolved before the last assessment date.

Tumour lysis syndrome

- Report the date when the first symptoms of the complications were documented.
- Maximum grade – if the grade is requested, report the maximum grade which was observed during the last reporting period.

- Indicate if a complication was treated and if it resolved before the last assessment date.

Bone marrow aplasia

- Report the date when the first data of the complication were documented.
- Indicate if a complication was treated and if it resolved before the last assessment date.

Hypogammaglobulinemia

Hypogammaglobulinemia refers to low levels of circulating gamma globulins, IgG immunoglobulins in the blood. Levels lower than 600mg/dL of circulating immunoglobulins are considered to be hypogammaglobulinemia in adult patients.

In paediatric patients aged 4 to 10 years, immunoglobulin levels lower than 500mg/dL are considered hypogammaglobulinemia. In children below the age of 4 years, hypogammaglobulinemia needs to be diagnosed on an individual basis by the treating physician.

If the hypogammaglobulinemia continues from a prior reporting period, report the original diagnosis date as the onset date.

Was hypogammaglobulinemia present before cellular therapy?

Indicate if hypogammaglobulinemia was present before the infusion episode took place.

If Yes, was it worsened by cellular therapy?

If hypogammaglobulinemia was present before the infusion episode, report if the immunoglobulin levels decreased after infusion.

Insertional mutagenesis

- Report the date when the first data of the complication were documented.
- Indicate if it resolved before the last assessment date.

Exacerbation of existing neurological disorder

- Report the date when the first symptoms of the complication were documented.
- Indicate if a complication was treated and if it resolved before the last assessment date.
- Specify the neurological disorder

Hemorrhagic stroke

- Report the date when the first symptoms of the complications were documented.
- Maximum grade – if the grade is requested, report the maximum grade which was observed during the last reporting period.
- Indicate if a complication was treated and if it resolved before the last assessment date.

Other toxicity/complications

If the patient developed other toxicities or complications than described on the form, report these here. Specify the complication as clearly as possible, in English.

- Report the date when the first symptoms of the complications were documented.
- Maximum grade – report the maximum grade which was observed during the last reporting period.
- Indicate if the complication was treated and if it resolved before the last assessment date.

Infectious complications

Each infectious episode should be reported separately. Indicate if the infection was present by answering 'yes' or 'no' to every question. After indicating which infections were present, fill in the table at the bottom of the page.

In the table the type of infection should be specified (using the names listed on the form), the location of infection if applicable, the onset date, pathogen, if the infection was treated and if it was resolved before the last assessment date.

Additionally, for virus reactivations report the highest copy number in copies/ml and the date the highest copy number was observed.

The Infectious Diseases Working Party (IDWP) has published the following document, which should be consulted before filling in these sections of the form:

https://www.ebmt.org/sites/default/files/migration_legacy_files/document/Infectious%20Diseases%20WP%20definitions%20and%20complications%20after%20SCT.pdf

Secondary malignancy

Did a secondary malignancy or autoimmune disorder occur?

If the patient developed a secondary disease or autoimmune disorder after the cell infusion, tick 'yes' and fill in the next questions. If not, select 'no' and continue at 'Post therapy treatment'.

Diagnosis

Indicate the diagnosis of the secondary disease or autoimmune disorder as clearly as possible in English.

Date of diagnosis

Report the date of diagnosis.

Histologic Type

Report the histologic type of the secondary malignancy if applicable.

Location

Describe the location of the secondary malignancy if applicable.

Secondary malignancy material preserved

Report if material of the secondary malignancy was preserved.

Post therapy treatment

This section is for systemic treatments only. Treatment for acute GvHD should not be reported here but in the GvHD section.

Did the patient undergo additional treatment during or after the cellular therapy?

Indicate if the patient has received any medications in the last reporting period. This question concerns both treatment for the disease itself as for complications. If the patient received additional treatment, report the date the treatment started.

Indication for the treatment

Report the reason for the treatment which can be treatment for complications or treatment for the disease itself.

Date started

Report the start date of the treatment.

Date ended

Fill in the end date of the treatment. If the treatment is ongoing, tick the box for 'ongoing at this date'.

Did the patient receive any other type of treatment?

If the patient received other types of treatment report these here.

Is the patient receiving any medication not related to cell therapy or its indications?

Indicate if the patient received medications that were not related to the cellular therapy or the disease that was the indication for the therapy.

First relapse or progression after CT

First Relapse or Progression or Significant worsening of organ function

Only answer this question if one of the indications for the cellular therapy is a primary disease or infection. Report the first relapse or significant worsening after cellular therapy.

Select 'yes' if there was an occurrence of new sites of disease, or the re-occurrence of disease or systemic symptoms (B symptoms) after having achieved a complete remission which lasted for 3 months or more.

Select 'continuous progression' if the CR lasted less than 3 months. Progression also describes any worsening of the disease status in patients previously assessed as not in CR.

1st relapse: means the first relapse that occurs after a first CR has been achieved. If the patient has never had a CR, the status of the disease cannot be relapse, but it can be progression.

Date of relapse

If the patient had a relapse of the primary disease, report the date the relapse was diagnosed.

Last disease status

Last disease status

Select the disease status that reflects the status at the time of last assessment that is being reported.

Histopathological verification of relapse

This question only needs to be answered for patients with a lymphoma diagnosis. Select if the relapse was verified using histopathology.

Transfusion status (for haemoglobinopathies)

Indicate if the patient required transfusions after the cellular therapy.

Disease burden: LDH level

Indicate if the LDH level was normal, elevated or not evaluated.

Disease burden: inflammatory state

Indicate if the C-reactive protein concentration was normal, elevated or not evaluated. If the level was elevated, report the maximum CRP concentration and unit.

Hospital admission

This section only needs to be completed for follow-up at day 100 and 6 months.

Was inpatient admission and care needed (not ICU)?

Report if the patient was admitted to the hospital for inpatient care since the last assessment.

Was the patient transferred to the Intensive Care Unit?

Report if the patient was transferred to the intensive care unit since the last assessment.

Pregnancy after cellular therapy

Has the patient or partner become pregnant after this cellular therapy?

Indicate whether a female patient or the female partner of a male patient has become pregnant since the patient underwent the treatment procedure. This includes all types of conception: natural and assisted.

Did the pregnancy result in live birth?

If a pregnancy occurred, indicate whether the pregnancy resulted in a live birth or not. If the pregnancy did not result in a live birth, complete the birth outcome. If the pregnancy did result in live birth, complete the newborn status and length of term.

Birth outcome

If the pregnancy did not result in live birth, report if this was because of stillbirth or an abortion.

New born status

If the pregnancy resulted in live birth, indicate if the newborn was healthy or affected by a disease. If the information is unknown or not provided, select 'information not provided'.

Length of term

If the pregnancy resulted in live birth, report whether the pregnancy was full-term or the baby was born prematurely. If the information is unknown or not provided, select 'information not provided'.

Persistence of infused cells

Were tests performed to detect the persistence of the cellular products during this period?

Select 'yes' if tests to detect the persistence of the infused cells were performed. If no tests were performed, select 'no' and continue with the next section.

Date of the last test

If a test was performed, indicate the date of the last test before the follow-up assessment that is being reported.

Source of cells

Select the source of cells that was used to assess the persistence of the infused cellular product.

Technique used

Select the technique that was used to assess the persistence of the infused cellular product.

Were cells detected?

State if the infused cells were detected by the relevant technique.

Survival status

Survival status

Indicate if the patient is last known to be alive or dead. If the patient is lost to follow-up, tick the box for 'Check here if patient lost to follow-up'.

Main cause of death

Tick only one major cause of death. In case of doubt, check with the physician since this information is sometimes difficult to find in the patient's file.

Contributory causes of death

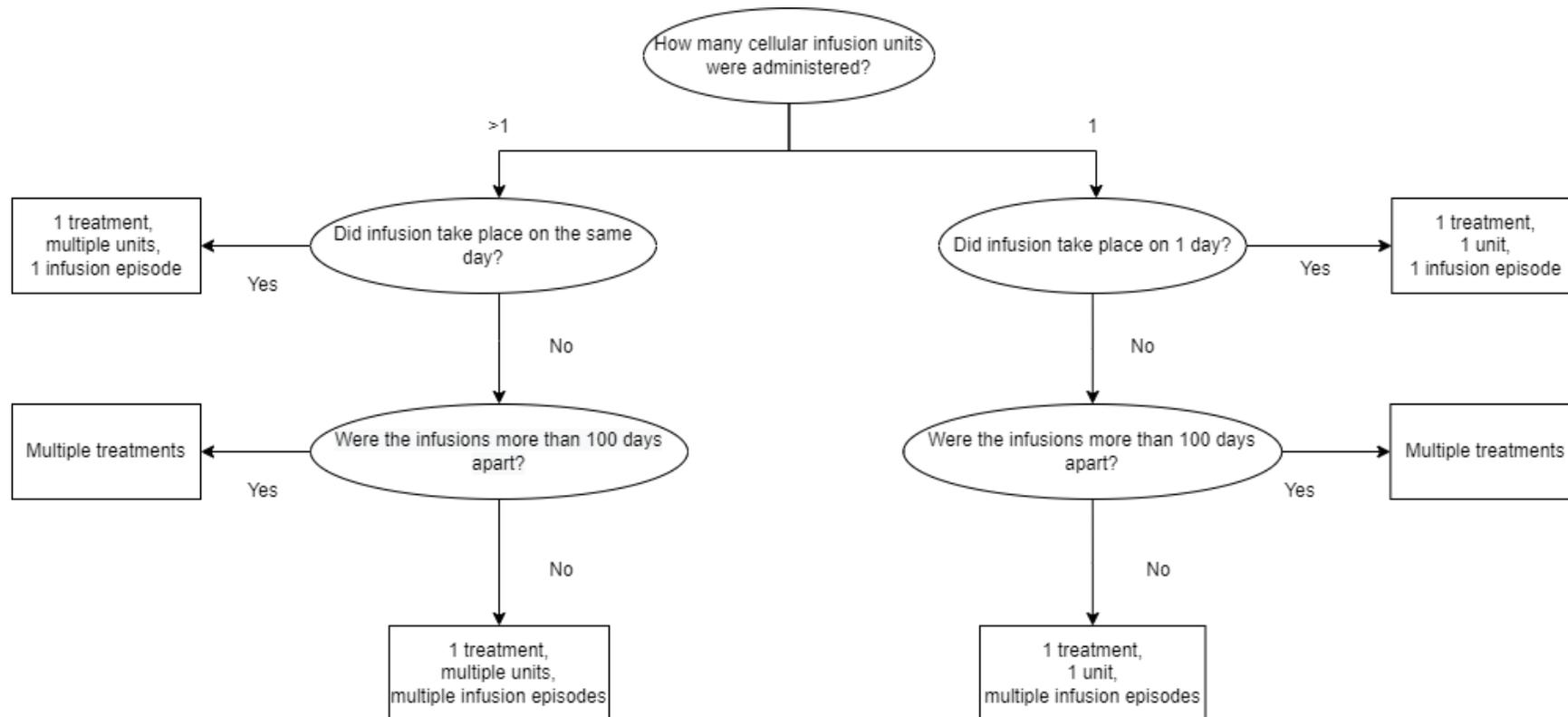
In case contributory factors resulted in the death of the patient, tick all the relevant options from the 'contributory causes of death' list.

References

1. B-Cell Aplasia (Concept Id: C4552224) - MedGen - NCBI [Internet]. Ncbi.nlm.nih.gov. 2021 [cited December 2021]. Available from: <https://www.ncbi.nlm.nih.gov/medgen/1702770>
2. 1. ECOG Performance Status - ECOG-ACRIN [Internet]. ECOG-ACRIN. 2021 [cited December 2021]. Available from: <https://ecog-acrin.org/resources/ecog-performance-status>

Appendix A

Data entry flowchart



Appendix B

Karnofsky/ECOG scoring systems (2)

Score	Performance status: Karnofsky/Lansky
100	Normal, no complaints, no evidence of disease / Fully active, normal
90	Able to perform normal activity; minor signs and symptoms of disease / Minor restrictions in physically strenuous activity
80	Able to perform normal activity with effort; some signs and symptoms of disease / Active, but tires more quickly
70	Cares for self, unable to perform normal activity or to do active work / Both greater restriction of and less time spent in play activity
60	Requires occasional assistance but is able to care for most of own needs / Up and around, but minimal active play; keeps busy with quieter activities
50	Requires considerable assistance and frequent medical care / Gets dressed but lies around much of the day, no active play but able to participate in all quiet play and activities
40	Requires special care and assistance; disabled / Mostly in bed; participates in quiet activities
30	Hospitalization indicated, although death not imminent; severely disabled / In bed; needs assistance even for quiet play
20	Hospitalization necessary; active supportive treatment required, very sick / Often sleeping; play entirely limited to very passive activities
10	Fatal processes progressing rapidly; moribund / No play; does not get out of bed

Score	ECOG status
0	Fully active, able to carry on all pre-disease performance without restriction
1	Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature, e.g., light house work, office work
2	Ambulatory and capable of all selfcare but unable to carry out any work activities; up and about more than 50% of waking hours
3	Capable of only limited selfcare; confined to bed or chair more than 50% of waking hours
4	Completely disabled; cannot carry on any selfcare; totally confined to bed or chair