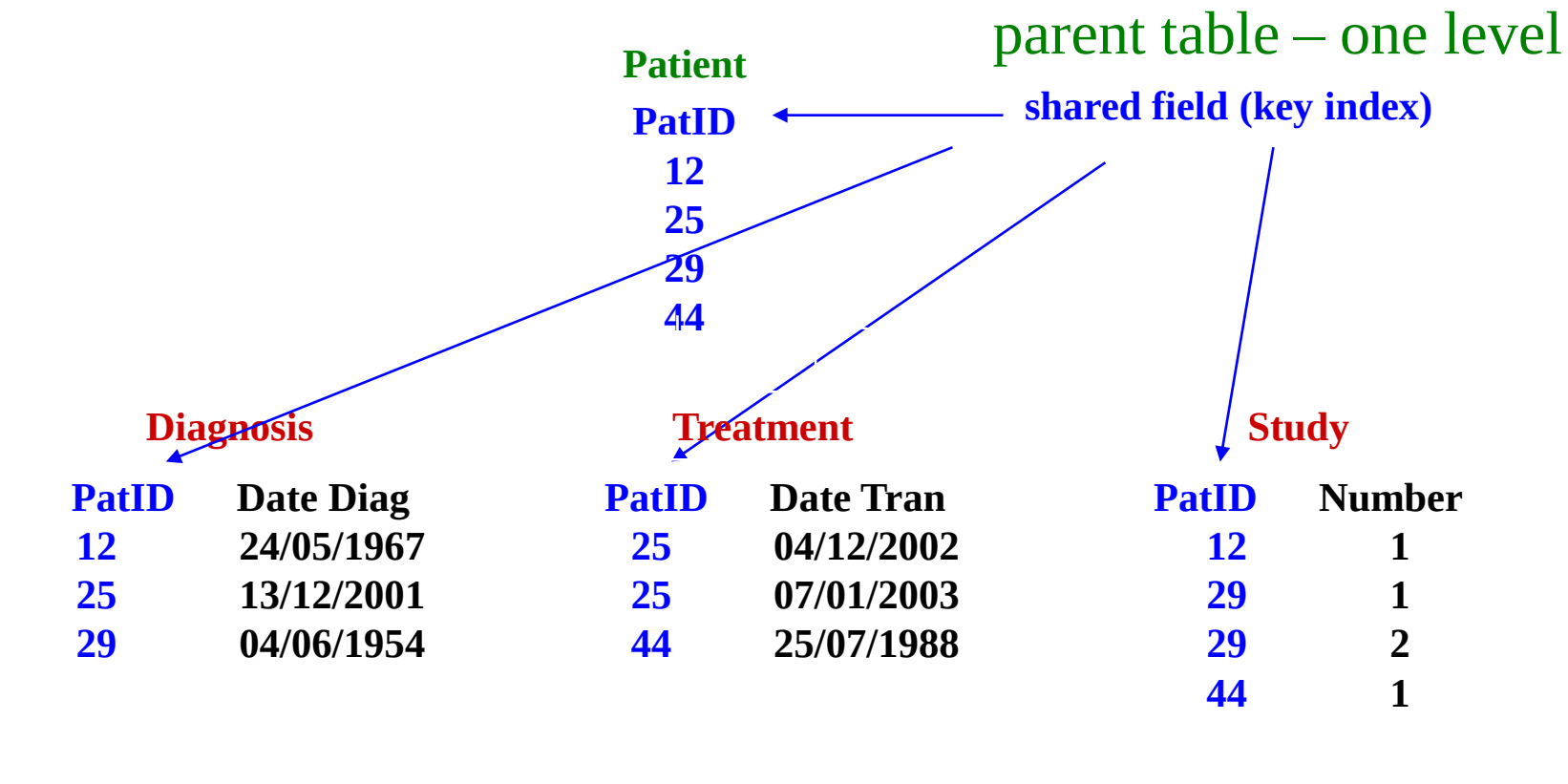
The EBMT Registry Database

MC Ruiz de Elvira

Revised: Oct 2017

Relational database
The concept



Relational database
The concept

Level definition

- Series of tables which do not depend on each other's existence or content
- All depend on the existence and content of the same parent table
- They all share at least one field (index) with the parent table and, therefore, among each other.

Data storage: example

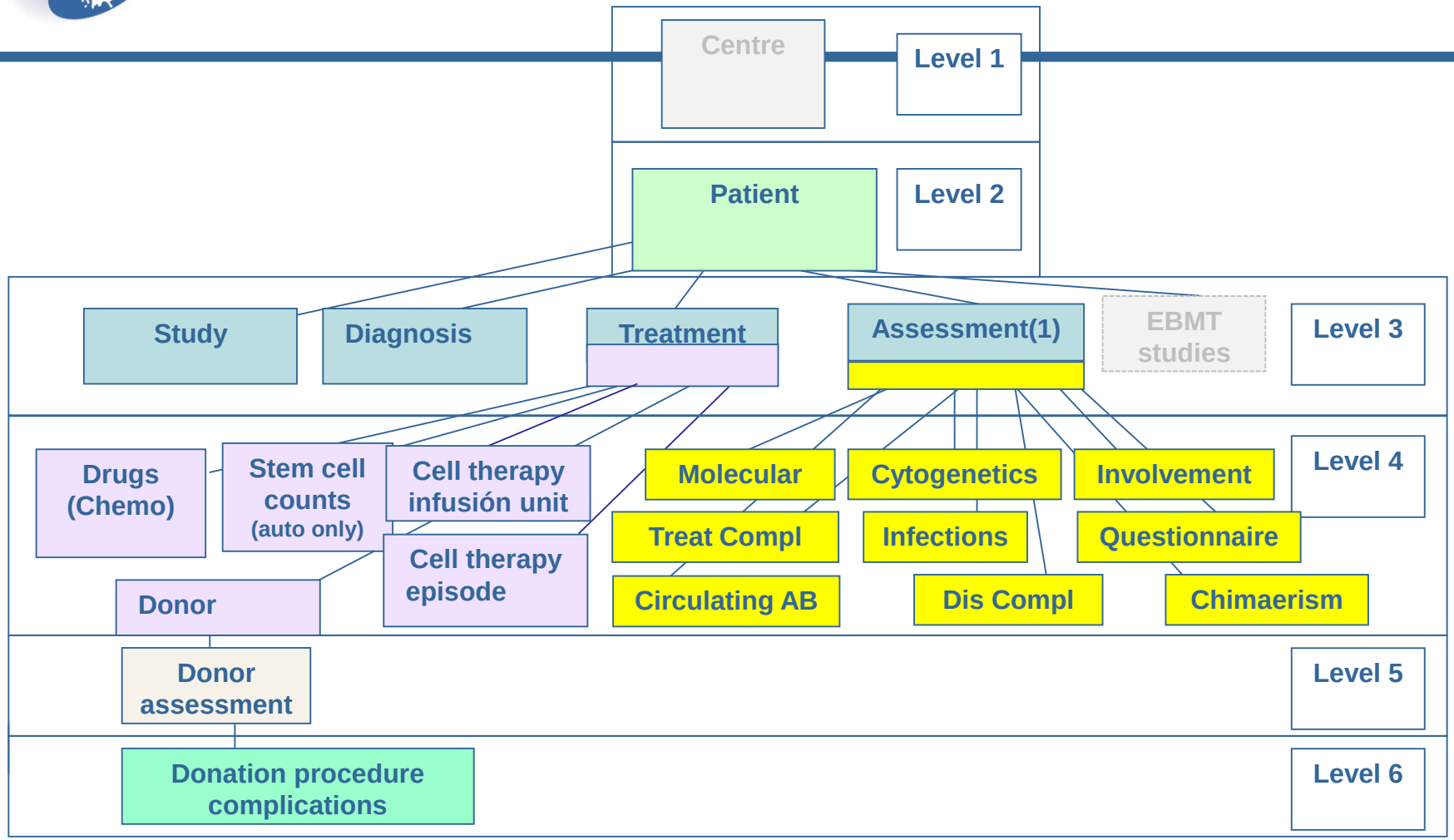
Flat style

PatId	WBC* Diag	WBC Treat	WBC Mob	WBC Tran	WBC FUp
1	…	null	null	…	…
2	…	…	null	…	…
3	…	null	…	…	null

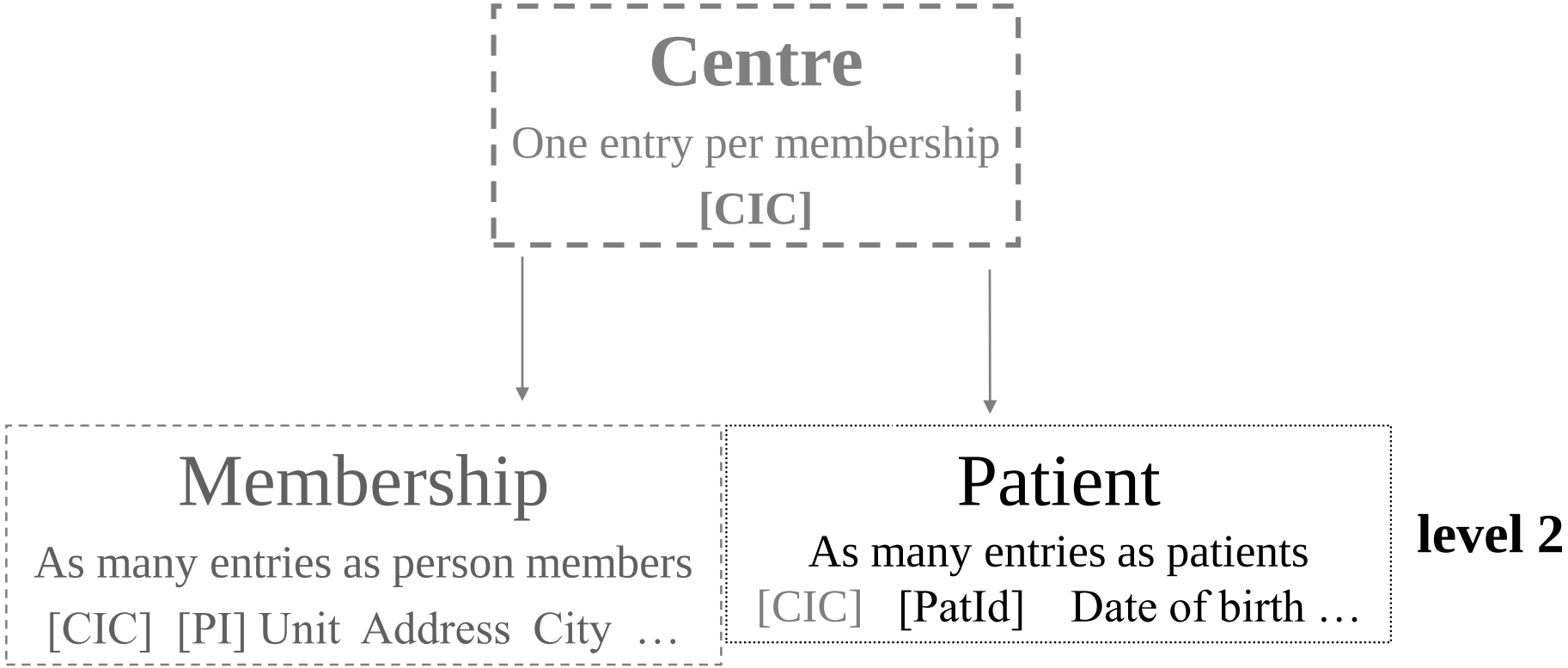
EBMT database

PatId	Date	Type	WBC
1	02/02/1990	Diag	…
1	04/04/1991	Tran	…
1	10/10/1991	Fup	…
2	01/01/1980	Diag	…
2	03/03/1980	1st line	…
2	07/07/1987	Tran	…
2	12/12/1987	Fup	…
3	02/02/1992	Diag	…
3	04/04/1993	Mob	…
3	05/05/1993	Tran	…

EBMT Registry Database



EBMT database
Level 1

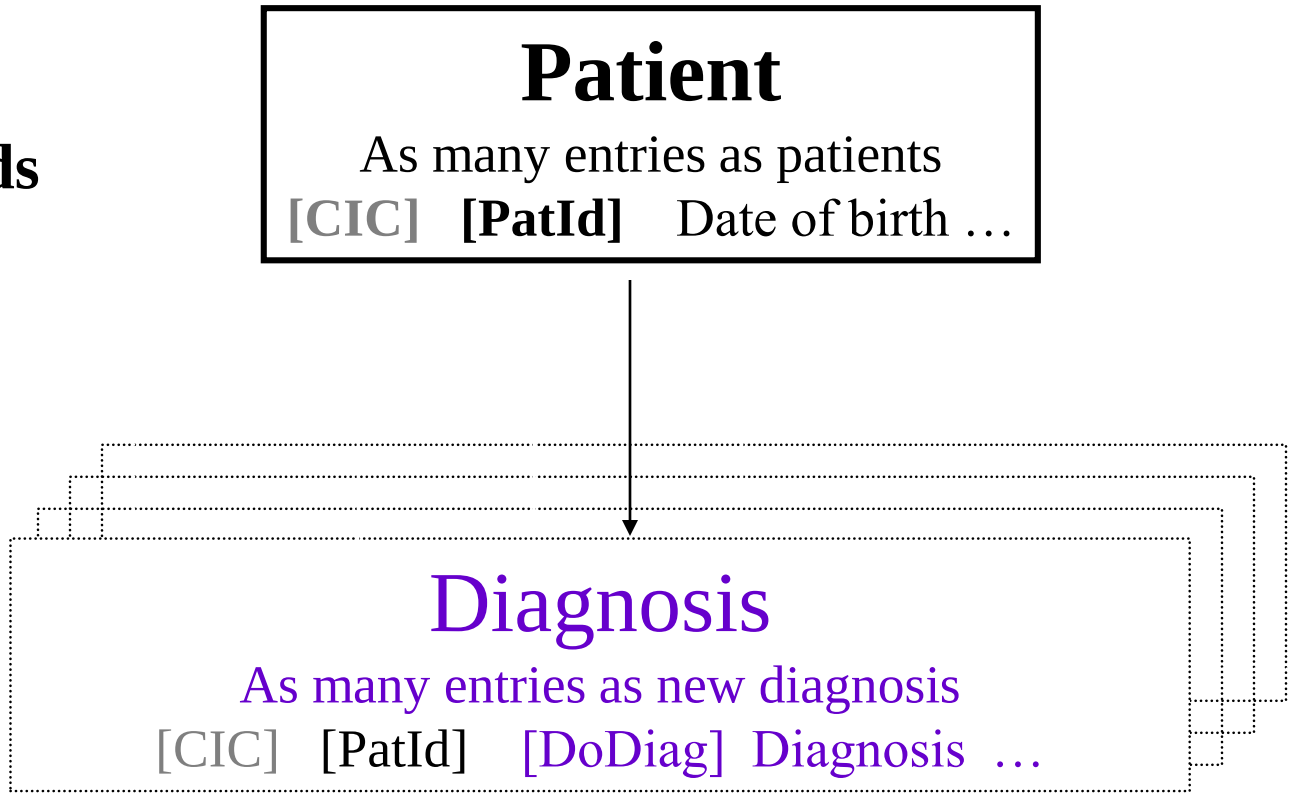


EBMT database
Level 2

Patient information
- **date of birth**
- **initials**
- **date of death**

Administrative fields

Outcome summary
- **dates of graft**
- **status**
- **date last seen**



level 3

EBMT database
Level 3

name of study

Study

As many entries as studies

[CIC] **[PatId]** **[Number]** Study name…

EBMT database
Level 3

Diagnosis

As many entries as new diagnosis

[CIC] **[PatId]** **[DoDiag]** Diagnosis …

date of diagnosis
disease classification: FAB, REAL, etc
stage
secondary origin

EBMT database
Level 3

allo or auto
stem cell source
reason
response
modalities

Treatment

As many entries as new treatments

[CIC] **[PatId]** **[DoTrt]** SC MoAB Chemo …

level 4

Drugs (Chemo)

As many entries as drugs

[CIC] [PatId] [DoTrt] [Regimen] Dose Days …

EBMT database
Level 4

Treatment
As many entries as new treatments

[CIC] [PatId] [DoTrt] SC MoAB Chemo …

Drugs (Chemo)
As many entries as drugs

[CIC] **[PatId]** **[DoTrt]** [Drug] Dose Days …

name of drug / protocol
dose
units
route of administration
date start that particular drug
date end that particular drug

EBMT database
Level 4

Treatment

As many entries as new treatments

[CIC] [PatId] [DoTrt] SC MoAB Chemo …

cell type
timing
number of cells

Stem cell counts

As many entries as cells measured

[CIC] **[PatId]** **[DoTrt]** [Source/Timing] Type …

EBMT database
Level 4

Treatment
As many entries as new treatments

[CIC] [PatId] [DoTrt] SC MoAB Chemo …

Cell therapy infusion unit (CTIU)
As many entries as CTIU

[CIC] **[PatId]** **[DoTrt]** [CTIU] Batch Source…

unit identification
tissue source
cell types
collection
manipulation

EBMT database
Level 4

Treatment
As many entries as new treatments

[CIC] [PatId] [DoTrt] SC MoAB Chemo …

Cell therapy infusion episode
As many entries as CTIU

[CIC] **[PatId]** **[DoTrt]** [DoEpisode] CTIU Route…

date
unit identification
route
cells infused

EBMT database
Level 4

Treatment
As many entries as new treatments

[CIC] [PatId] [DoTrt] SC MoAB Chemo …

donor age
donor sex
donor registry
HLA match
cell infusion
donor HLA
cell manipulaton

Donor
As many entries as donors per treatment

[CIC] **[PatId]** **[DoTrt]** [DonId] Sex Match …

EBMT database
Level 5

Donor

As many entries as donors per treatment

[CIC] [PatId] [DoTrt] [DonId] Sex Match …

history
medication

Donor Assessment

As many entries as donor follow up

[CIC] **[PatId]** **[DoTrt]** **[DonId]** [DoDFUp] History…

EBMT database
Level 6

Donor Assessment
As many entries as donor follow up

[CIC] [PatId] [DoTrt] [DonId] [DoDFUp] History…

complication date

Donor Procedure Complications
As many entries as donor complications

[CIC] **[PatId]** **[DoTrt]** **[DonId]** **[DoDFUp]** **[Complication]**

Date…

EBMT database
Level 3

date of assessment
haematological values
biochemical values
disease involvement
immunophenotyping assessed
cytogenetics done
incidence of infections
incidence of complications
GvHD
patient HLA

Assessment(1)

As many entries as new Assessment(1)

[CIC] **[PatId]** **[DoAssess]** Hg WBC …

Cytogenetics

As many entries as abnormalties studied

[CIC] [PatId] [DoAssess] [Abnormality] Presence …

EBMT database
Level 4

Assessment(1)

As many entries as new assessments

[CIC] [PatId] [DoAssess] Hg WBC …

complication presence description

Treat compl

As many entries as treatment complications studied

[CIC] **[PatId]** **[DoAssess]** **[TComplic]** Presence …

EBMT database
Level 4

Assessment(1)

As many entries as new assessments

[CIC] [PatId] [DoAssess] Hg WBC …

abnormality
presence
description

Cytogenetics

As many entries as abnormalties studied

[CIC] **[PatId]** **[DoAssess]** **[Abnormality]** Presence …

EBMT database
Level 4

Assessment(1)

As many entries as new assessments

[CIC] [PatId] [DoAssess] Hg WBC …

infection episode
pathogen
description
isolation method
date started
date end

Infections

As many entries as infections studied

[CIC] **[PatId]** **[DoAssess]** **[Infection]** Presence …

EBMT database
Level 4

Assessment(1)

As many entries as new assessments

[CIC] [PatId] [DoAssess] Hg WBC …

site
primary
metastatic

Involvement

As many entries as phenotypes studied

[CIC] **[PatId]** **[DoAssess]** **[Site]** Presence …

EBMT database
Level 4

Assessment(1)

As many entries as new assessments

[CIC] [PatId] [DoAssess] Hg WBC …

marker
presence
description

Molecular

As many entries as molecular markers studied

[CIC] **[PatId]** **[DoAssess]** **[Marker]** Presence …

EBMT database
Level 4

Assessment(1)

As many entries as new assessments

[CIC] [PatId] [DoAssess] Hg WBC …

cell type
% chimaerims
technique

Chimaerism

As many entries as molecular markers studied

[CIC] **[PatId]** **[DoAssess]** **[DoTest]** Cell type…

EBMT database
Level 4

Assessment(1)

As many entries as new assessments

[CIC] [PatId] [DoAssess] Hg WBC …

complication
description
indication for transplant

Dis compl

As many entries as disease complications studied

[CIC] **[PatId]** **[DoAssess]** **[DComplic]** Presence …

EBMT database
Level 4

Assessment(1)

As many entries as new assessments

[CIC] [PatId] [DoAssess] Hg WBC …

antibody level titer

Circulating AB

As many entries as molecular markers studied

[CIC] **[PatId]** **[DoAssess]** **[Antibody]** Presence …

EBMT database
Level 4

Assessment(1)

As many entries as new assessments

[CIC] [PatId] [DoAssess] Hg WBC …

question
score

Questionnaire

As many entries as infections studied

[CIC] **[PatId]** **[DoAssess]** **[Question]** Score …