

Die Variable im Fokus

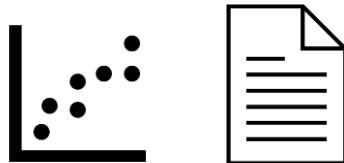
Nachhaltiges Daten-Management bedingt
zuverlässige und sichere Datenbanken

Miriam Wegmann

CTU Lecture, 14.12.2022

u^b Die Variable im Fokus

Überblick



- Entwicklung:
 - Studienprotokoll
 - Case Report Forms (CRFs)
**Aufsetzen der Datenbank:
Definition der Variablen**
- Durchführung: Dateneingabe
- Auswertung: Resultate,
Publikation, finaler Bericht

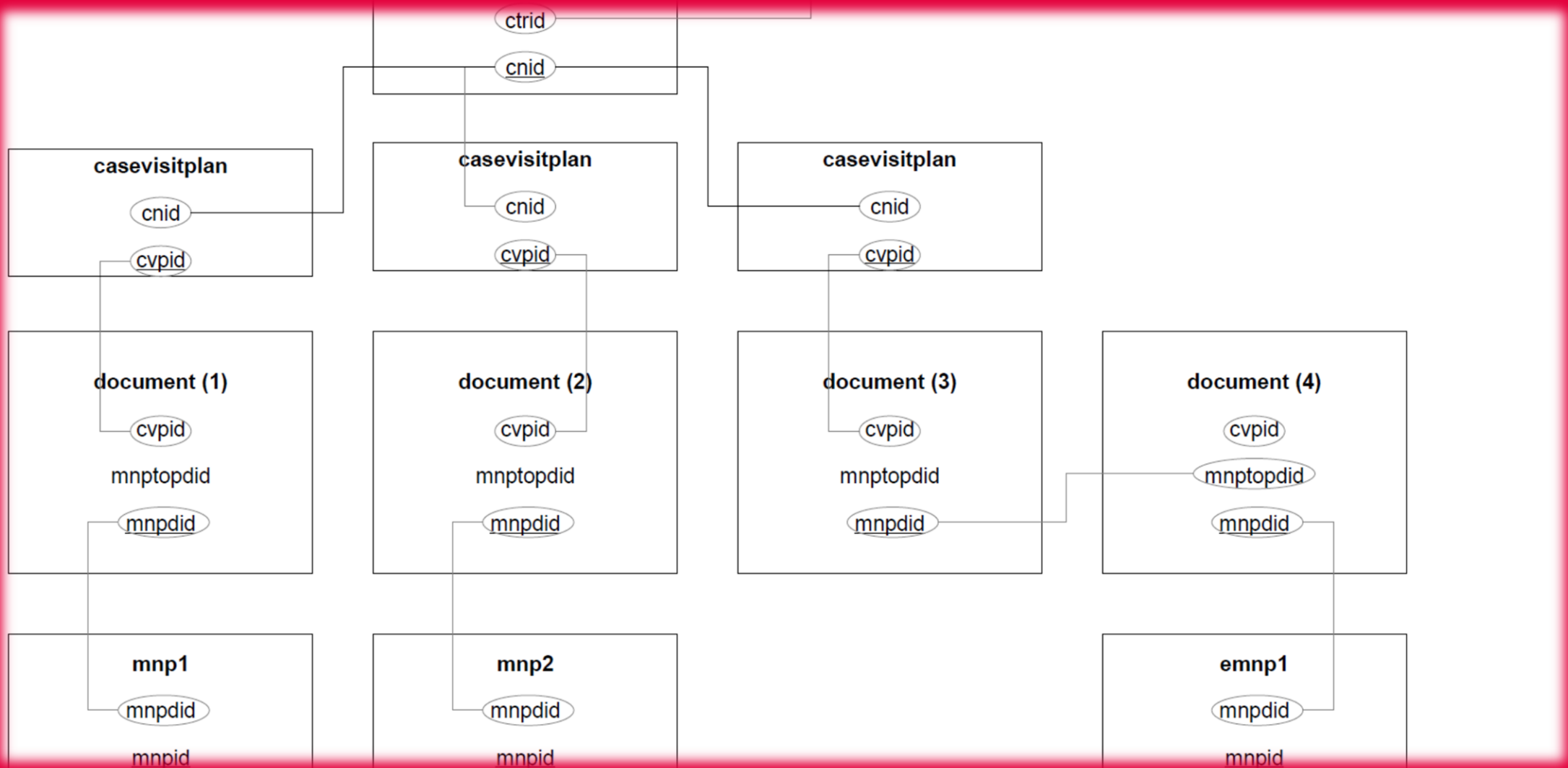
u^b Die Variable im Fokus

Inhalt



- Die Datenbank hinter den CRFs
- Die Variable im Fokus
- Die Infrastruktur
- CTU Daten Management

Die Datenbank hinter den Case Report Forms



Die Datenbank hinter den Case Report Forms CRFs

Demographic variables Data Access Group: [No Assignment]

Editing existing Record ID 1.

Record ID 1

Please be aware: whenever information is missing or unknown you are able to inform us about it.

By clicking on the red circled 'M'-icon on the left of the data entry field, you can state that the information about the variable is missing/unknown. This way we know the missing data entry was not a mistake. Thank you very much!

unit: cm, min = 120 cm, max = 230 cm, e.g. 178 cm

Height [cm] unit: cm, min = 120 cm, max = 230 cm, e.g. 178 cm

Weight [kg] unit: kg, min = 25 kg, max = 200 kg; e.g. 80 kg

BMI at admission (calculated) [View equation](#)

Form Status

Complete?

ELIGIBILITY Document-No. 1206 - 6

Informed consent document (ICD) signed by participant Yes No

Date of ICD signature dd.mm.yyyy

ICD copy given to participant Yes No

Month and year of birth mm.yyyy

Age (calculated) 51 years

Gender

INCLUSION CRITERIA

Participant is 18 years of age or older Yes No

Participant has a confirmed diagnosis of UC and is being prescribed tofacitinib (Xelanz®) Yes No

Die Datenbank hinter den Case Report Forms

Datenbank

Server: rc-db-U6.ispm.unibe.ch Database: rc-db-ctu Table: redcap_data_dictionaries

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	dd_id	int			No	None		AUTO_INCREMENT	Change Drop More
2	project_id	int			Yes	NULL			Change Drop More
3	doc_id	int			Yes	NULL			Change Drop More
4	ui_id	int			Yes	NULL			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Full

Print Track table Move columns Normalize

Add 1 column(s) after ui_id Go

Indexes

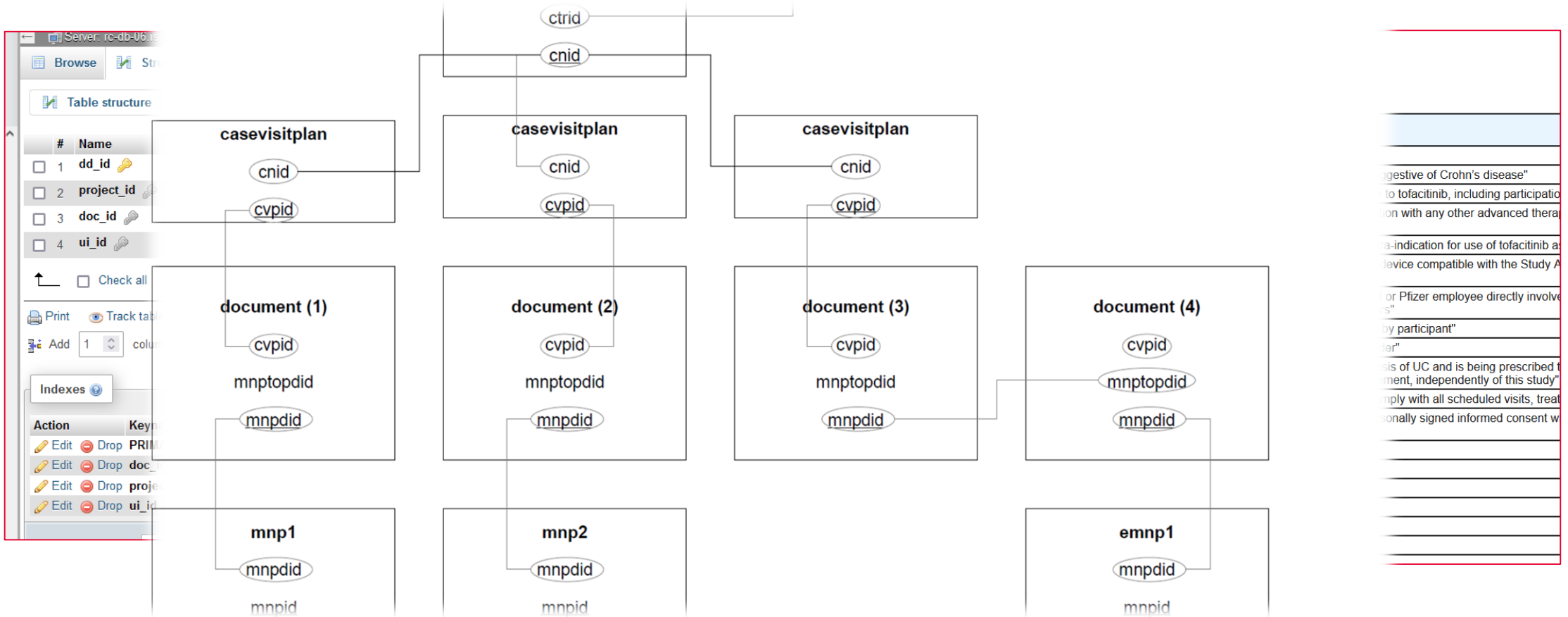
Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	dd_id	2558	A	No	
Edit Drop	doc_id	BTREE	No	No	doc_id	2558	A	Yes	
Edit Drop	project_id	BTREE	No	No	project_id	170	A	Yes	
Edit Drop	ui_id	BTREE	No	No	ui_id	120	A	Yes	

Table: **MNPP1594_ELIGIBILITY**
 Type: Medical data
 Description: "ELIGIBILITY"

Column name	Data type	Data length	Constraints	Description
AGE	VARCHAR2	14 (42b)	NULL	"ic" "Age (calculated)"
EC1	NUMBER	22	NULL	"exclusion" "Participant has clinical findings suggestive of Crohn's disease"
EC2	NUMBER	22	NULL	"exclusion" "Participant had previous exposure to tofacitinib, including participatio
EC3	NUMBER	22	NULL	"exclusion" "Participant is receiving co-medication with any other advanced therapeu
EC4	NUMBER	22	NULL	"exclusion" "Participant has any identified contra-indication for use of tofacitinib a
EC6	NUMBER	22	NULL	"exclusion" "Participant does not own a digital device compatible with the Study A
EC7	NUMBER	22	NULL	"exclusion" "Participant is Investigator site staff or Pfizer employee directly involve
IC	NUMBER	22	NULL	"ic" "Informed consent document (ICD) signed by participant"
IC1	NUMBER	22	NULL	"inclusion" "Participant is 18 years of age or older"
IC2	NUMBER	22	NULL	"inclusion" "Participant has a confirmed diagnosis of UC and is being prescribed the
IC3	NUMBER	22	NULL	"inclusion" "Participant is willing and able to comply with all scheduled visits, treat
IC4	NUMBER	22	NULL	"inclusion" "Participant is capable of giving personally signed informed consent w
IC_COPY	NUMBER	22	NULL	"ic" "ICD copy given to participant"
IC_DATE	VARCHAR2	14 (42b)	NULL	"ic" "Date of ICD signature"
MNPDID	NUMBER	22	NOT NULL	Foreign key to P1594DOCUMENT (MNPDID).
MNPID	NUMBER	22	NOT NULL	Primary key.
SEX	NUMBER	22	NULL	"ic" "Gender"
YMOB	VARCHAR2	14 (42b)	NULL	"ic" "Month and year of birth"

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Die Datenbank hinter den Case Report Forms Datenbank



Die Datenbank hinter den Case Report Forms

Klinisches Daten Management System

Edit Field

Field Type: Text Box (Short Text, Number, Date/Time, ...)

Field Label: Weight [kg] Use the Rich Text Editor ?

Action Tags / Field Annotation (optional)

Learn about [@ Action Tags](#) or [using Field Annotation](#)

Variable Name (utilized in logic, calc, and exports)
weight Enable auto naming of variable based upon its field label?
ONLY letters, numbers, and underscores

How to use: [Smart Variables](#) [Linking](#) [Field Embedding](#)

Validation? (optional) Integer

Minimum: 25
Maximum: 200

Tip for min/max limits: You may use the word `today` or `now` (not wrapped in quotes) for date/time fields to set dynamic range limits. Also, you may pipe a value from another field e.g., `{visit: date}` or `{event: 1 and 1}`.

- Or -
-- select ontology service --

Required? No Yes
* Preempt if field is blank

Identifier? No Yes
Does the field contain identifying information (e.g., name, SSN, address)?

Custom Alignment: Right / Vertical (RV)

Field Note (optional): unit: kg, min = 25 kg, max = 200
Small reminder text displayed underneath field

Type: * Checked Date (dd.mm.yyyy) Date format: display Missing Values ?

Displayed order: 20 Shown no.:

Item: Date of ICD signature hide label in form ?

Item (HTML): ?

Unit / format (HTML): ?

Database column: * ic_date ?

CDISC ODM export annotations ...

Hide in DataCapture: ?

Displayed order	Rule ID	Name	+ / -	Type	Following action
10		Date must not be in the future.	-	Limit reached if...	10.10 (No error message defined)
20			-	Hide if...	10.10 (No error message defined)

Die Datenbank hinter den Case Report Forms Variable

Demographic variables Data Access Group: [No Assignment]

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Record ID 1

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Height [cm] unit: cm, min = 120 cm, max = 230 cm, e.g. 178 cm

Weight [kg] unit: kg, min = 25 kg, max = 200 kg; e.g. 80 kg

BMI at admission (calculated) [View equation](#)

Form Status

Complete?

ELIGIBILITY Document-No. 1206 - 6

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Date of ICD signature dd.mm.yyyy

ICD copy given to participant Yes No

Month and year of birth mm.yyyy

Age (calculated) 51 years

Gender

INCLUSION CRITERIA

Participant is 18 years of age or older Yes No

Participant has a confirmed diagnosis of UC and is being prescribed tofacitinib (Xelanz®) Yes No

u^b Die Variable im Fokus

Date of ICD signature

```
10-10) INELIGIBLE (must be yes) [ ] <> [#
unequal value] <fixed integer> [Yes (1)]
<>
-- dd.mm.yyyy
ic_date {Checked Date (dd.mm.yyyy), Date format:
display}
10. [ ] Limit reached if ... "Date must not be in the
future."
10-10) " " [ ] <> [> real greater than value]
<current date / time> [ ] <>
20. [ ] Hide if ... ""
10-10) " " [Eligibility <mnpr... ability> ic -
Informed consent occurred
<current visit> [ ] unequal value
integer> [Yes (1)] <>
```

u^b Zwei Variablen im Fokus

Gewicht & Informierte Einwilligung

Gewicht


Weight [kg]

unit: kg, min = 25 kg, max = 200 kg; e.g. 80 kg

Informierte Einwilligung, Datum

(ICD) signed by participant

Date of ICD signature

 - - dd.mm.yyyy 

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Gewicht & Informierte Einwilligung Protokoll

Features and Their Definitions

All features are measured or estimated

- Age (years) [9-18]
- Gender (m/f) [1, 11, 12,
- Height / Weight / BMI [

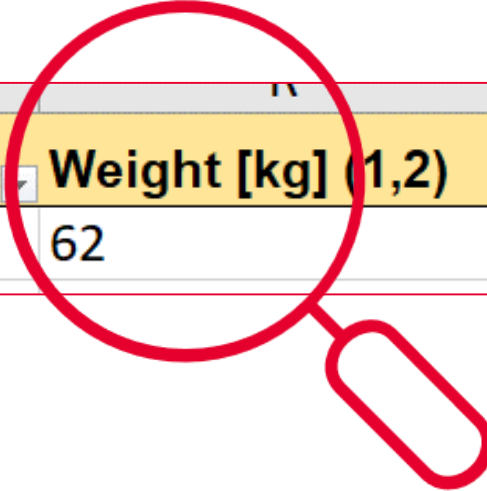
Visit Identifier	Screening ^a Day -35 to -7	Baseline ^b Day 0
Abbreviations used in this table may be found in Appendix 6 .		
Visit Window	±7 days	
Protocol-required a		
Eligibility criteria assessment	X	
Informed consent	X	X
Patient demographics: date of birth		X

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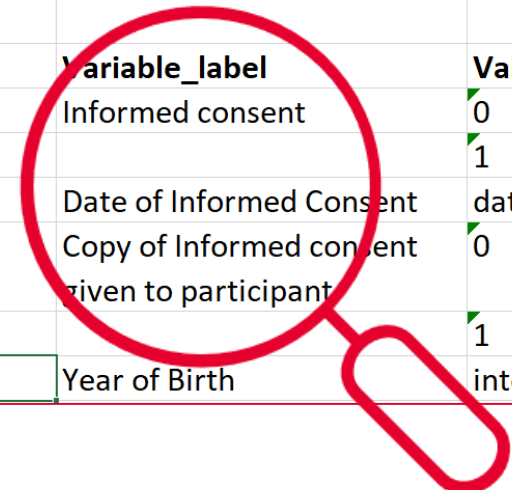
Gewicht & Informierte Einwilligung

Codebook

eight [cm] (1,2)	Weight [kg] (1,2)	BMI
67	62	22



Eligibility			
Accessibility	Standard		
Variable_name	Variable_label	Value	Value_label
	Informed consent	0	No
		1	Yes
	Date of Informed Consent	date	DD.MM.YYYY
	Copy of Informed consent given to participant	0	No
		1	Yes
	Year of Birth	integer	



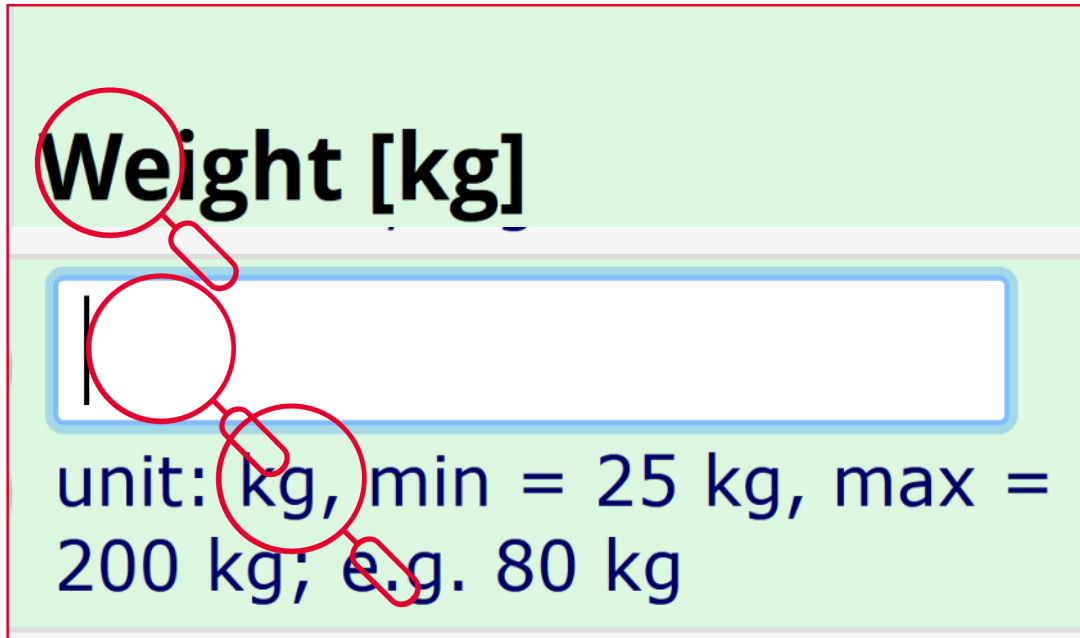
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Gewicht & Informierte Einwilligung

Variablen-Namen, Format, Einheit


Weight [kg]

unit: kg, min = 25 kg, max = 200 kg; e.g. 80 kg

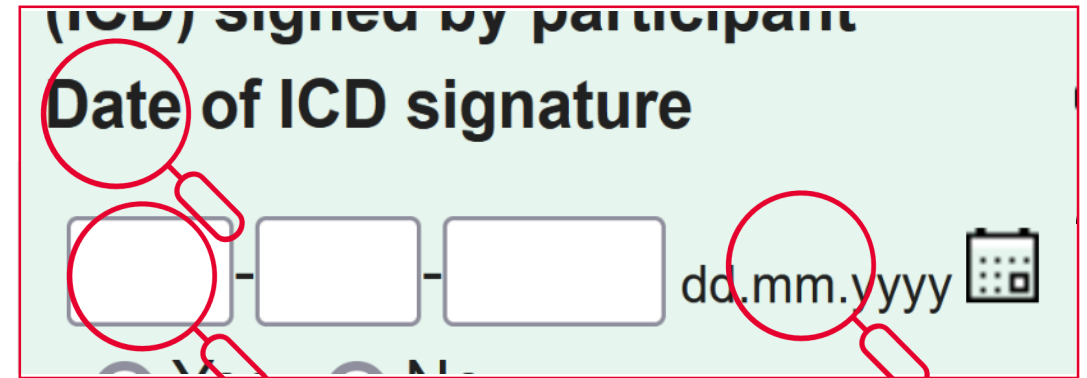


(ICD) signed by participant

Date of ICD signature

 - - dd.mm.yyyy 

CONFIRMATION



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Gewicht & Informierte Einwilligung

Variablen-Label, Regeln/Checks/Prüfung

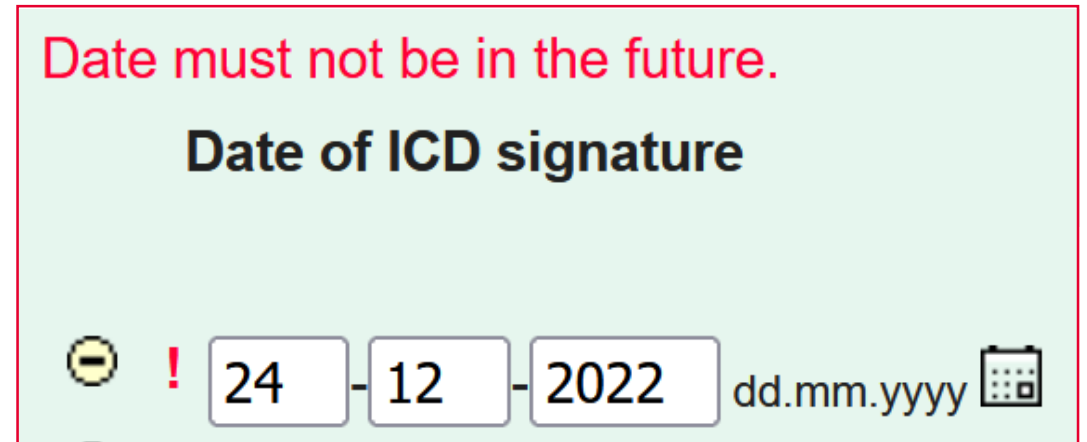
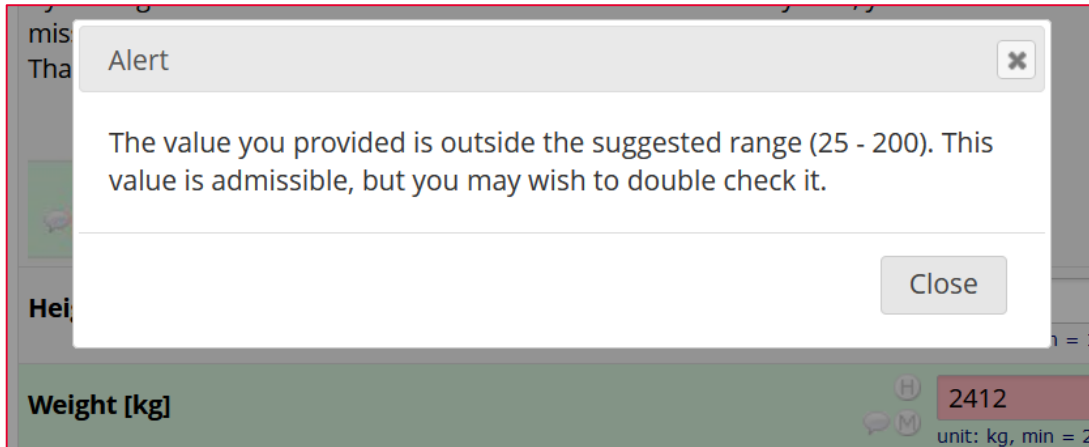
[weight]	Weight [kg] <i>unit: kg, min = 25 kg, max = 200 kg; e.g. 80 kg</i>
	text (integer, Min: 25, Max: 200)

```
ic_date {Checked Date (dd.mm.yyyy), Date format: display}
10. [ ] Limit reached if ... "Date must not be in the future."
    (10-10) " " [ ] <> [ ] real greater than value] <current date / time>
    [ ] <>
20. [ ] Hide if ... ""
    (10-10) " [Eligibility <mnpp1594_eligibility> ic - Informed
    consent document... <ic>] <current visit> [≠ unequal
    value] <fixed integer> [Yes (1)] <>
```

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Gewicht & Informierte Einwilligung

Testen



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Gewicht & Informierte Einwilligung

Weitere Optionen

Enable optional modules and customizations

Enable Repeating instruments [?](#)

Disable Auto-numbering for records [?](#)

Enable Scheduling module (longitudinal only) [?](#)

Enable Randomization module [?](#)

Enable Designate an email field for communications (including surveys) [?](#)

[Additional customizations](#)

Settings displayed to Administrators only:

Enable Twilio SMS and Voice Call services for surveys and alerts [?](#)

Source Data Verification (SDV) never always scalable

Data Entry Complete (DEC) never always scalable

Data Correction (DC) never always scalable

Discrepancies Transfer Module (DTM)

Double Data Entry (DDE) [?](#)

Patient deletion (productive area) [?](#)

Deviations (DV) none 2steps 3steps [?](#)

national international

single centre multiple centres [?](#)

no only for AdminTool additional to Pat-ID instead of Pat-ID [?](#)

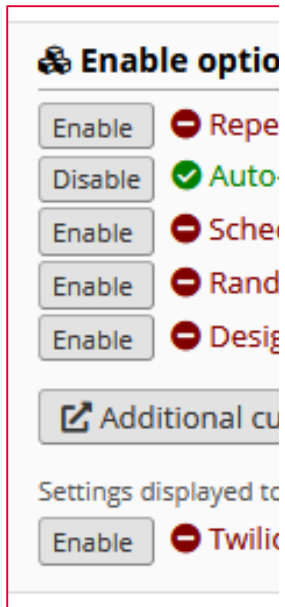
Allowed Add-IDs: all Specify format generate consecutively

per project per centre

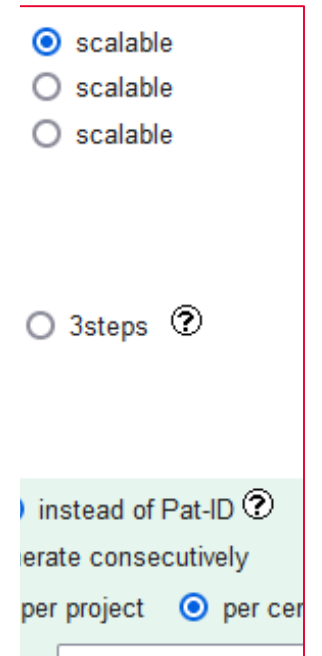
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Gewicht & Informierte Einwilligung

Weitere Optionen



- Pflichtfeld / Mandatory
- Identifizierende Daten
- Missing Funktionen
- Auslösen von Nachrichten
- Source Data Verification (SDV)
- Doppelte Dateneingabe (DDE)
- Patienten Selbstdokumentation
- Übersetzung



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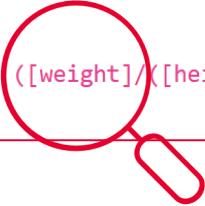
Gewicht & Informierte Einwilligung

Abhängige Variablen

Variable Name: *bmi*

Field Label: BMI at admission (calculated)

Calculation: `if(([height]!='-999' and [weight]!='-999'), ([weight]/([height]*[height]))*10000, "")`



Score years

age {Date Interval y (calculated only)}

10. [] Calculate date/time lag from . ""

10-10) "" [] <> [] <Item> [Eligibility <mnpp1594_eligibility> ic - Date of ICD

signature <ic_date>] <current visit>

or 20-10) "" [] <> [] <Item> [Eligibility <mnpp1594_eligibility> ic - Month and

year of birth <ic_date>] <current visit>



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Gewicht & Informierte Einwilligung

Visiten, Visitenplan

Record ID 1

Data Collection Instrument	Status
Eligibility	
Demographic variables	
Medical variables	
Surgical Variables	
Outcomes	
End of Study	

No.	Label	Type	Time lag (days) to the date of	
10	Screening (D)	flexible	0	< entry >
▶ Label from item				
30	Baseline (D)	flexible	0	Screening
▶ Label from item				
40	Visit week 8 (D)	flexible	56	Baseline
▶ Label from item				
50	Visit week 16 (D)	flexible	112	Baseline
▶ Label from item				
60	Follow-up week 20 (D)	flexible	140	Baseline
▶ Label from item				
70	#. Unscheduled Visit (D)	unscheduled	Max. count: ?	1 < preceding
▶ Label from item				

New visit group New visit Visit plan preview

Number of visits displayed side by side on this page (settable from 1-10): 10

Form family / Form	Screening	Baseline	Visit week 8	Vis
Eligibility				
Eligibility <mnp1594_eligibility>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Patient Demographics				
Patient Demographics <mnp1594_demographics>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
UC Disease Characteristics				
DMS <mnp1594_dms>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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Gewicht & Informierte Einwilligung

Rollen und User Management

	Data Viewing Rights		
	No Access (Hidden)	Read Only	View & Edit
Eligibility	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demographic variables	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Medical variables	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Surgical Variables	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Outcomes	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Hide all	Show
Eligibility (1)	
Eligibility	<input checked="" type="checkbox"/>
Patient Demographics (1)	
Patient Demographics	<input checked="" type="checkbox"/>
IC Disease Characteristics (3)	
MS	<input checked="" type="checkbox"/>

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Gewicht & Informierte Einwilligung

Testen

Variable / Field Name	weight	bmi
Form Name	demographic_variables	demographic_variables
Field Type	text	calc
Field Label	Weight [kg]	BMI at admission (calculated)
Field Note	unit: kg, min = 25 kg, max = 200 kg; e.g. 80 kg	
Text Validation Min		25
Text Validation Max		200
Test Data	set Weight [kg] < 25 and Weight [kg] > 200	set ([height] != '-999' and [weight] != '-999')
Expected Result	error message appears	field appears
Actual Result	error message does not appear for lower range.	field appears
Pass/Fail	failed	pass
Changes	corrected typo in range to '25'	
Retest 1: Pass/Fail	pass	

Form	Eligibility	Eligibility	Eligibility
Question	Date of ICD signature	Date of ICD signature	Date of ICD signature
Item			
Database column			
Definition	Hide if ...	Hide if ...	Limit reached if...
Type	-	-	-
Preconditions			
Test Data	ic = 'no'	ic = 'yes'	24.12.2022
Expected Result	field is hidden	field is shown	Error message must appear: Date must not be in the future.
Actual Result	field is hidden	field is shown	Error message appears: Date must not be in the future.
Pass/Fail	pass	pass	pass
Changes			
Retest 1: Pass/Fail			

Gewicht & Informierte Einwilligung

Testen

Variable / Field Name	weight
Form Name	demographic_variables
Field Type	text
Field Label	Weight [kg]
Field Note	unit: kg, min = 25 kg, max = 200 kg; e.g. 80 kg
Text Validation Min	2
Text Validation Max	20
Test Data	set Weight [kg] < 25 and Weight [kg] > 200
Expected Result	error message appears
Actual Result	error message does not appear for lower range.
Pass/Fail	failed
Changes	corrected typo in range to '25'
Retest 1: Pass/Fail	pass









- Sponsor
- Studienteam
- Daten Management
- Statistik
- Monitor

	Eligibility	Eligibility
)	Date of ICD signature	Date of ICD signature
	Hide if ...	Limit reached if...
	-	-
	ic = 'yes'	24.12.2022
en	field is shown	Error message must appear: Date must not be in the future.
en	field is shown	Error message appears: Date must not be in the future.
	pass	pass

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Gewicht & Informierte Einwilligung

Anpassungen, Änderungen

Production revision #56	12.08.2022 14:40	 Download data
Production revision #57	16.08.2022 10:57	 Download data
Production revision #58	17.08.2022 11:28	 Download data
Production revision #59	23.09.2022 11:19	 Download data
Production revision #60	28.09.2022 09:42	 Download data
Production revision #61	29.09.2022 08:34	 Download data
Production revision #62	11.11.2022 10:12	 Download data
Production revision #63 (current)	15.11.2022 11:18	 Download data

No. 81 Starting from the following date 27.10.2020 - 16:24:45 (CET)	"1_082" "Implementation of change ID 33 ("R:\20_Database_634\03_Production_63\00_ChangeRequestLog_V1_052_ff.x
No. 80 Starting from the following date 01.10.2020 - 08:28:16 (CEST)	"1_081" "Replacing links to image storage" Bc
No. 79 Starting from the following date 16.09.2020 - 11:06:07 (CEST)	"1_080" "Implementation of change ID 32 ("R:\20_Database_634\03_Production_63\00_ChangeRequestLog_V1_052_ff.x
No. 78 Starting from the following date 30.04.2020 - 16:16:02 (CEST)	"1_079" "Implementation of change ID 31 ("R:\20_Database_634\03_Production_63\00_ChangeRequestLog_V1_052_ff.x
No. 77 Starting from the following date 27.04.2020 - 14:28:34 (CEST)	"1_078" "Implementation of change ID 30 ("R:\20_Database_634\03_Production_63\00_ChangeRequestLog_V1_052_ff.x
No. 76 Starting from the following	"1_077" "Update of event form and adherence

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Gewicht & Informierte Einwilligung

Audit Trail

Time / Date	Username	Action	List of Data Changes OR Fields Exported
12.12.2022 10:36	mwegmann	Update record 1	demographic_variables_complete = '2'
12.12.2022 10:36	mwegmann	Update record 1	weight = '81', bmi = '23.666910153396643'
12.12.2022 10:35	mwegmann	Update record 1	weight = '', bmi = ''
12.12.2022 10:35	mwegmann	Update record 1	height = '185', bmi = '23.37472607742878'
12.12.2022 10:35	mwegmann	Update record 1	height = '158', weight = '80', bmi = '32.04614645088928', demographic_variables_complete = '0'

Audit Trail "Eligibility" Document-No. 1206				
Document History				
Participant	at	Language	Reason	Version
Miriam Wegmann	12.12.2022 - 09:48:52 (CET)	English	Query resolved	(05.12.2022 - 11:17:23 (CET))
Miriam Wegmann	12.12.2022 - 09:48:43 (CET)	English	Query answered Data modified	(05.12.2022 - 11:17:23 (CET))
Miriam Wegmann	12.12.2022 - 09:48:24 (CET)	English	Query added	(05.12.2022 - 11:17:23 (CET))
Miriam Wegmann	12.12.2022 - 09:47:55 (CET)	English	Data entry completed	(05.12.2022 - 11:17:23 (CET))
Miriam Wegmann	12.12.2022 - 09:47:37 (CET)	English	Data edited	(05.12.2022 - 11:17:23 (CET))

Insel Gruppe - 404 Page

Die aufgerufene Seite kann nicht angezeigt werden; eventuell ist der Link ungültig.
Sie können uns über folgende Seiten erreichen:

[Insel Gruppe](#) | [Inselspital](#) | [Spital Tiefenau](#) | [Spital Aarberg](#) | [Spital und Altersheim Belp](#) | [Spital Münsingen](#) | [Spital Riggisberg](#)

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La page demandée ne peut pas être indiquée. Le lien n'est éventuellement pas valable.
Veuillez nous contacter à travers les liens suivants:

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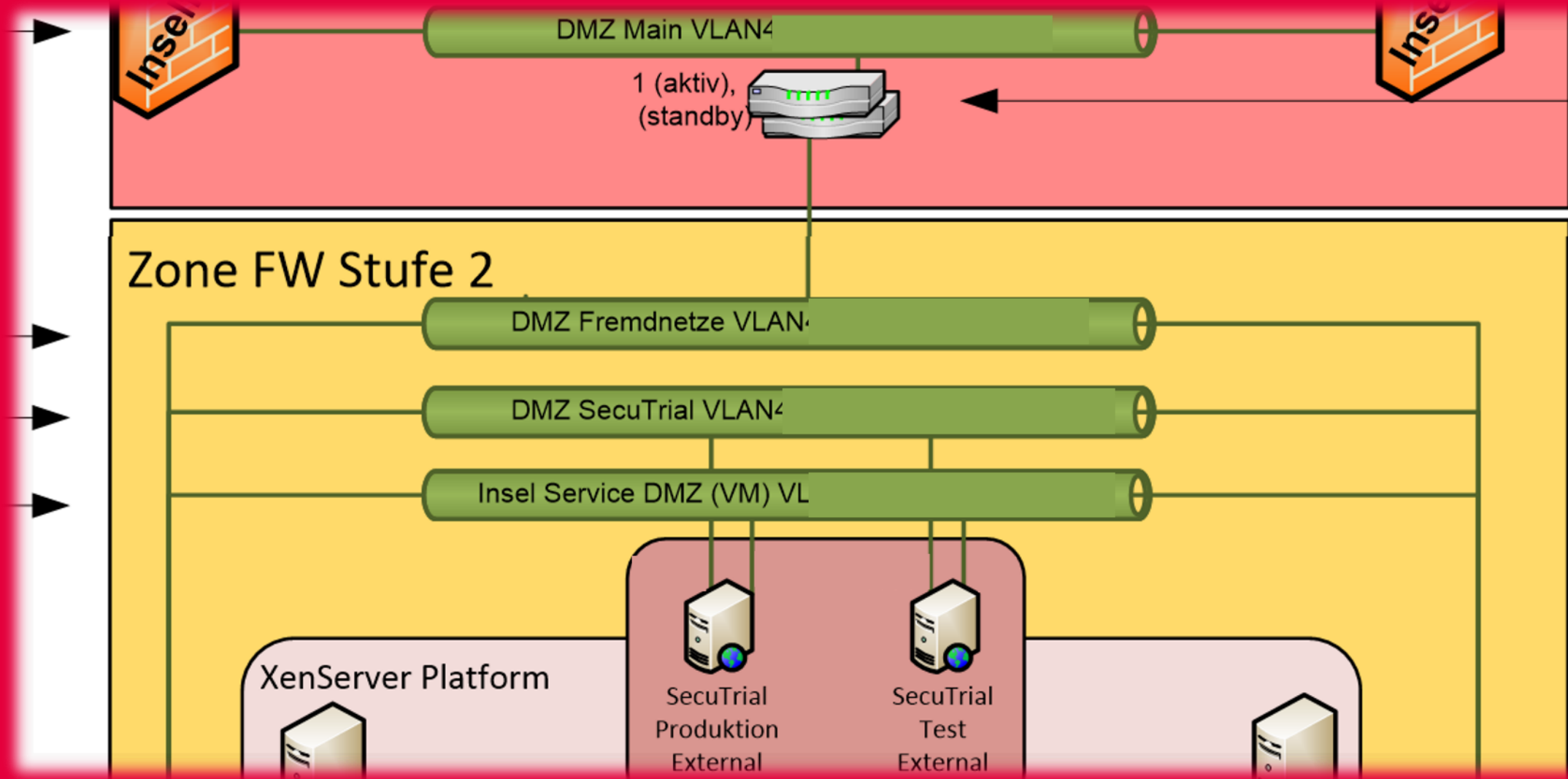
Insel Gruppe - 404 Page

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Die Infrastruktur



- Server, Backup (IT)
- Troubleshooting, Störungsbehebung (IT)

12.2.2 Data security, access and back-up

Describe who has access to data, how, where and when – and which backup systems are in place (if applicable).

The server hosting the EDC system and the database is kept in a locked server-room. Only the system administrators have direct access to the server and back-up tapes. A role concept with personal passwords (site investigator, statistician, monitor, administrator etc.) regulates permission for each user to use the system and database as he/she requires.

All data entered into the CRFs are transferred to the database using Transport Layer Security (TLS) encryption. Each data point has attributes attached to it identifying the user who entered it with the exact time and date. Retrospective alterations of data in the database are recorded in an audit table. Time, table, data field and altered value, and the person are recorded (audit trail).

A multi-level back-up system is implemented. Back-ups of the whole system including the database are run internally several times per day and on external tapes once a day. The back-up tapes are stored in a secure place in a different building.

Infrastruktur

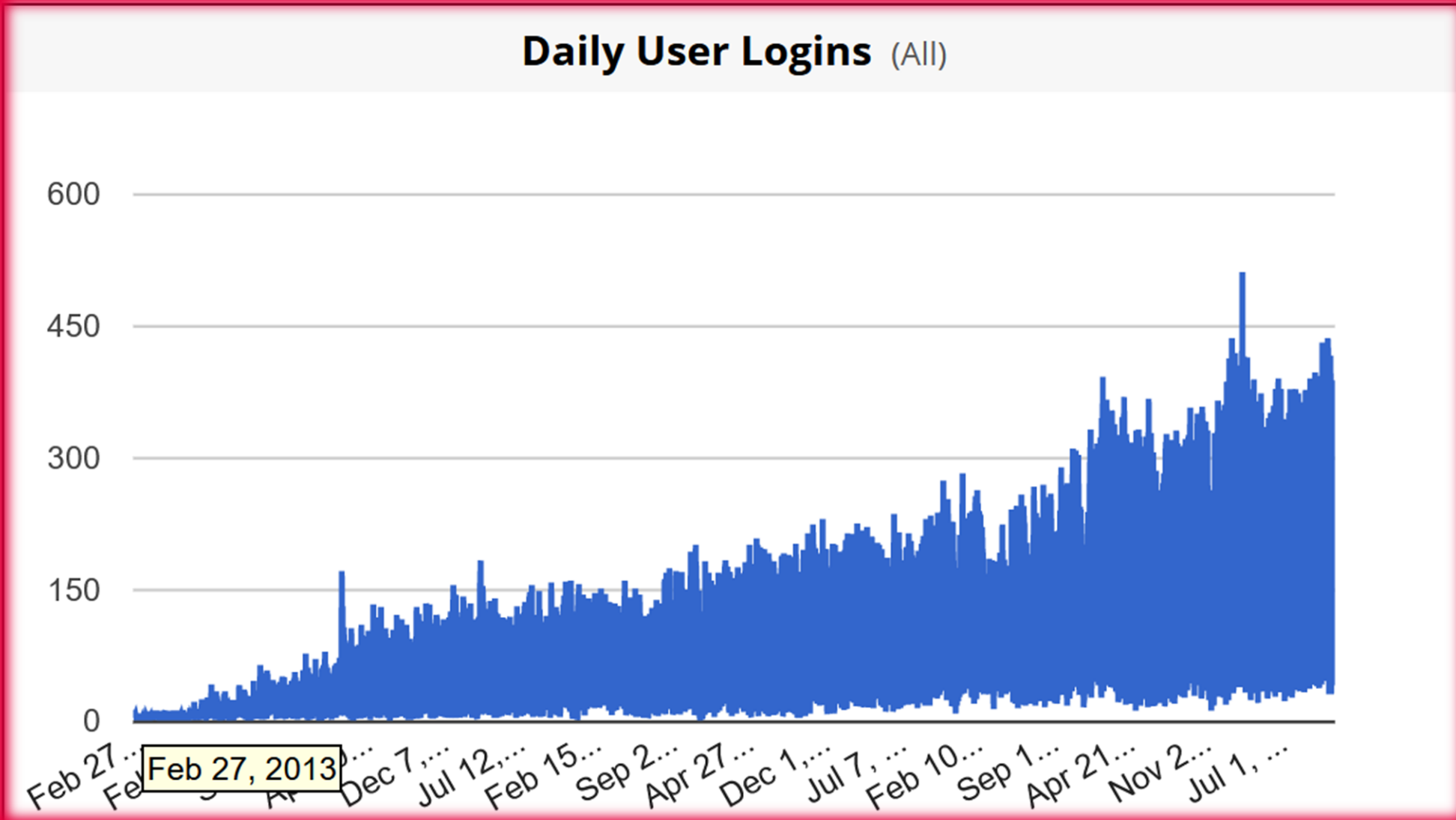
Updates

20.09.2022: Performed **REDCap Update** to version 12.4.12 (LTS)

- Calendar Sync:
It is now possible to synchronize REDCap calendar (scheduling module) and external calendars (e.g., Google Calendar, Outlook, Office 365, etc.). Under "Applications", go to "Calendar" and press on "Synch Calendar to External Application".
- Multi-language Management
Translations can now be defined for the interface and/or any item in your database. CTU will provide baseline German and French translations for the interface. Under "Applications", go the "Multi-Language Management". This option should now be favoured over the (deprecated) Multilingual External Module. For older projects relying on the later, the compatibility is guaranteed but you should then avoid to use the new Multi-Language Management feature.
- Instrument-level Data Export Rights
You have now the possibility to define export rights at the instrument level for each user role. Under "Applications", go to "User Rights", open any user role settings and edit the instrument-level rights in the right-side panel "Privileges for Viewing and Exporting Data".
- Survey start/end time & calendar smart variables
New smart variables are available notably to retrieve survey start/end time and provide a calendar link. For additional details, under "Project Home and Design", go to "Project Setup" and press on "Smart Variables".
- @FORCE-MINMAX action tag
The new @FORCE-MINMAX action tag will turn the usual soft-check for min/max values to a hard-check (the form will not be saved before the

Application version number	Application installation date	Database
6.1.1.10	23.06.2021 - 21:24 (CEST)	
6.1.1.9	21.04.2021 - 18:35 (CEST)	
6.1.1.6	03.03.2021 - 21:02 (CET)	
5.6.3.5	05.08.2020 - 19:23 (CEST)	
5.6.3.5	05.08.2020 - 19:23 (CEST)	
5.5.0.21	26.03.2019 - 20:08 (CET)	
5.5.0.14	12.11.2018 - 22:23 (CET)	
5.5.0.13	07.11.2018 - 20:35 (CET)	
5.5.0.12	31.10.2018 - 23:00 (CET)	
5.5.0.12	31.10.2018 - 23:00 (CET)	
5.3.4.12	04.07.2018 - 19:02 (CEST)	
5.2.0.9	15.08.2017 - 19:30 (CEST)	
5.1.0.20	17.02.2017 - 19:28 (CET)	
5.0.1.12	28.04.2016 - 20:39 (CEST)	
4.8.0.19	15.05.2015 - 15:27 (CEST)	
4.8.0.8	22.12.2014 - 15:56 (CET)	

CTU Daten Management



CTU Daten Management Team

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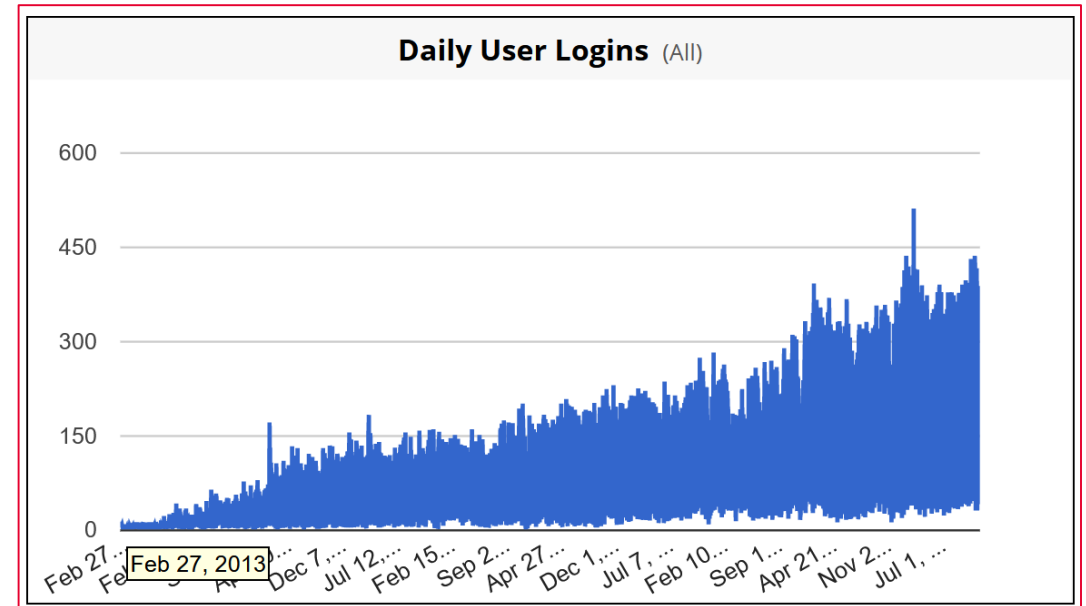
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[www.ctu.unibe.ch/services/
data_management](http://www.ctu.unibe.ch/services/data_management)

CTU Daten Management Services

- REDCap & secuTrial
- Full Services & REDCap Light
- > 400 produktive Datenbanken:
 - 13 full service Projekte am Aufsetzen
 - 17 full service Projekte wurden dieses Jahr produktiv gesetzt
 - Bis zu 5'000 Variablen mit bis zu 8'000 Eingaberegeln
- ~2'500 active users



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CTU Daten Management

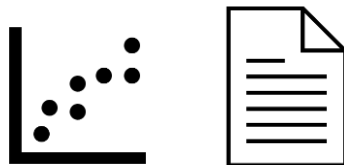
zuverlässige und sichere Datenbanken



- Standardisierung
- Konsistenz
- Kommunikation und enge Zusammenarbeit

u^b Die Variable im Fokus

Fazit



- ★ Es lohnt sich in die Datenbank (und den CRF) zu investieren (Budget und Zeit).
- ★ Die Datenbank (oder der CRF) ist nur so gut wie das Studienprotokoll. Der finale Studienbericht ist nur so gut wie die Datenbank (oder der CRF).

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Danke für die Aufmerksamkeit