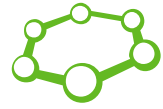


MUNI



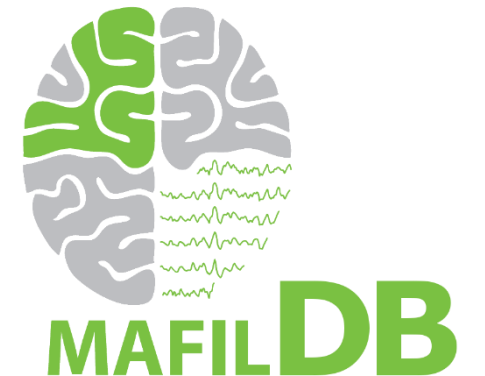
CEITEC

FAIR data pro uživatele CF MAFIL

MAFILDB jako nástroj pro přehled o datech měřených v CF MAFIL

Tomáš Slavíček

14.2.2024

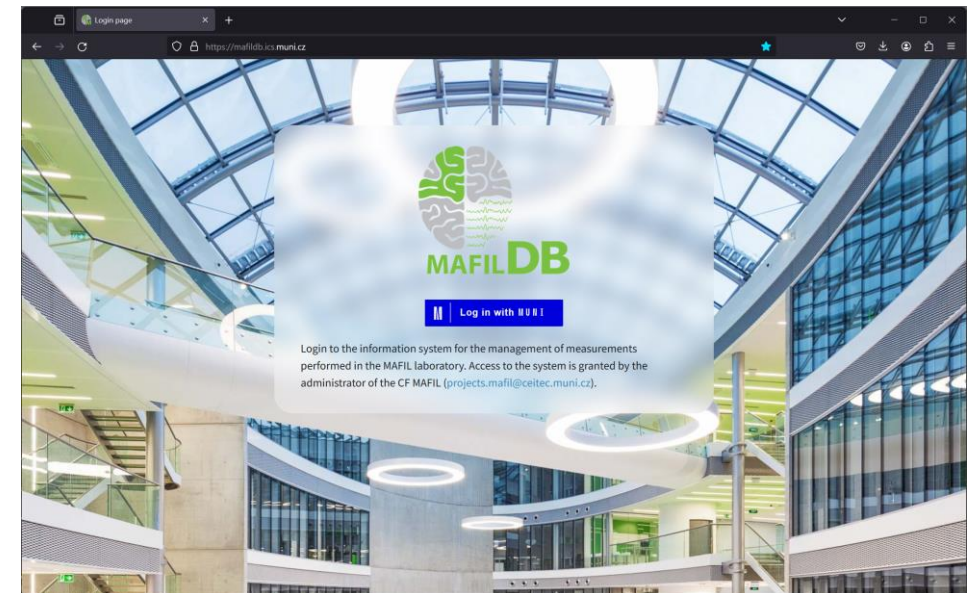


Osnova

- Přehled/koncepce
- Přístup (zabezpečení)
- Uživatelské role
- Ukázka

Přehled/koncepce MAFILDB

- 2 důležité aplikace (v ekosystému MUNI):
 - Projekty MAFIL - <https://booking.ceitec.cz/project-mafil/list/>
 - MAFILDB - <https://mafildb.ics.muni.cz/>
- Ústřední „HUB“ pro evidenci měření
 - **Project + Visit + Subject**
 - Uživatelské role
 - Data + metadata z měření
 - Citlivá osobní data probandů
 - Zabezpečení, logování
 - Propojení s PACS, provenance
 - ... postupné rozšiřování funkcionality



MAFILDB stav k 02/2024

- Aktuální funkcionalita:

- Přístup pro výzkumníky i zaměstnance lab.
- Přehledy, filtrování, poznámky z měření, export, atd.
- Obsaženo >80% MR dat od 2015, >98% od 2021

- Výhled:

- Bezpečnostní dotazník probanda
- Předávání dat dobrovolníkům (e-mail místo CD)
- DICOM Modality Worklist (MAFILDB → MR konzole)
- Poznámky z měření (elektronicky), podpora pro EEG, elfyz. data

- Vize:

- Stahování dat, podpora datasetů (FAIRifikace), ...

The screenshot displays the MAFILDB web application interface. At the top, there are 'Reset' and 'Potvrdit' buttons. Below them, a table shows 'Project', 'Date of measurement' (11.2.2021), and 'Visit ID' (4B). The MAFIL logo and name are visible, along with the text 'CEITEC, MU Laboratoř multimodálního a funkčního zobrazování Pracoviště Magnetické rezonance'.

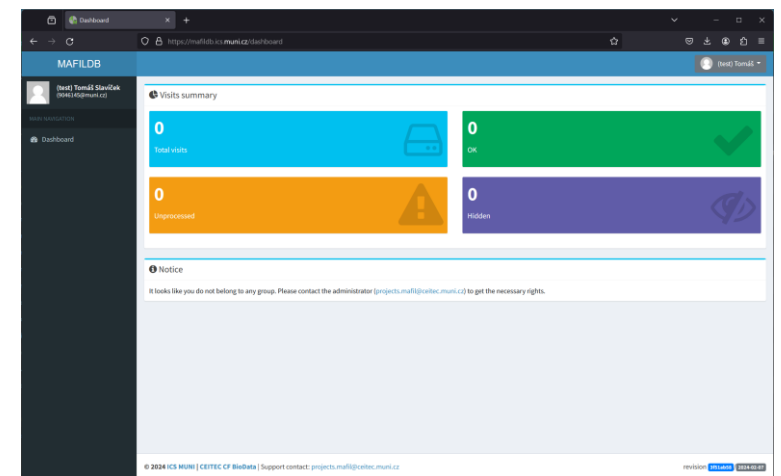
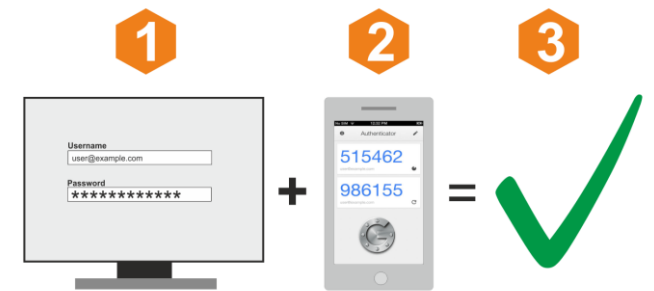
The form includes fields for 'Příjmení', 'Jméno', 'Rodné číslo', 'Datum narození', 'Mateřský jazyk', 'Stranová dominance', and 'Zraková korekce'. There are also radio buttons for gender ('Muž', 'Žena', 'Jiné') and 'Stranová dominance' ('Pravák', 'Levák', 'Přeučený', 'Neurčeno').

A blue arrow points from the 'Rodné číslo' field to the 'Úvodní informace' section. This section contains a welcome message and safety instructions. Below it is the 'Osobní údaje' section with fields for 'Jméno', 'Příjmení', 'Rodné číslo', 'Datum narození', 'Pohlaví', 'Mateřský jazyk', 'Výška', 'Váha', 'Zraková korekce', 'Hodnota zrakové korekce', and 'Stranová dominance'.

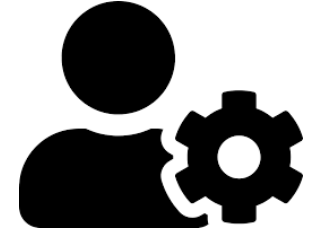
The 'Bezpečnostní informace' section contains a safety questionnaire with questions like 'Prodělal(a) jste operaci hlavy (mozku)?', 'Prodělal(a) jste oční operaci nebo ušní operaci?', and 'Máte zavedenou nějakou svorku či stent (např. v tepně či žíle)?' with 'Ano' and 'Ne' radio button options.

Prerekvizity pro přístup

- Zažádat oprávnění k aplikaci
 - projects.mafil@ceitec.muni.cz
 - Pouze pro osoby z MUNI, v budoucnu i externí
 - Dle UČO (správce nastaví oprávnění)
- Aktivovat pro svůj MUNI účet 2FA/MFA ověřování
 - <https://mfa.id.muni.cz/> (další přihlášení již bude vyžadovat MFA!)
 - Doporučení - vytvořit "záložní kódy" pro případ ztráty/poškození zařízení
 - <https://account.muni.cz/> - nastavení pro další služby na MU
- Přihlásit se na <https://mafildb.ics.muni.cz/>
 - Přístup jen ze sítě MU nebo MUNI VPN
- Kontaktovat správce pro přidělení role (dle projektu)
 - projects.mafil@ceitec.muni.cz



Uživatelské role - CF



a) Správce

- IT administrátor systému – uživatelská oprávnění a role, přístup k nastavení i logům

b) CF_admin

- Provozní administrátor systému – úplnost záznamů, dohledávání a opravy

c) CF_manager

- Prohlížení všech záznamů vč. osobních údajů, u Visit může doplnit komentář

d) CF_user

- Prohlížení všech záznamů bez osobních údajů

Uživatelské role - výzkumníci



- Přístup k údajům dle příslušnosti k projektu
 - AccessForm, Projekty MAFIL – „osoby s přístupem k datům projektu“
- a) Project_manager
 - Prohlížení záznamů přidružených k projektu, vč. osobních údajů, u Visit může doplnit komentář výzkumníka
- b) Project_user
 - Prohlížení záznamů přidružených k projektu, bez osobních údajů

Ukázka z pohledu výzkumníka



Dashboard

https://mafildb.ics.muni.cz/dashboard

MAFILDB (test) Tomáš

(test) Tomáš Slavíček
9046145@muni.cz

MAIN NAVIGATION

- Dashboard

ENTITIES

- Projects
- Subjects
- Visits
- Visits by project

Visits summary

188 Total visits	58 OK
0 Unprocessed	0 Hidden

© 2024 ICS MUNI | CEITEC CF BioData | Support contact: projects.mafil@ceitec.muni.cz

revision 3f51ab58 / 2024-02-07

Manage projects

https://mafildb.ics.muni.cz/projects

MAFILDB (test) Tomáš

(test) Tomáš Slaviček
(9046145@muni.cz)

MAIN NAVIGATION

- Dashboard

ENTITIES

- Projects
- Subjects
- Visits
- Visits by project

Projects

Actions	Short name	Name	Start date	End date	Comment
Details	AVATAR	Advanced approaches to measuring and processing fMRI data with regard to benefits in neurological research and diagnostics	01.05.2023	31.12.2026	
Details	BOSAPS_5	Bold signal alterations by parameters of pulse sequence	01.07.2020	01.07.2021	
Details	BOSAPS_3	Bold Signal Alterations by Parameters of pulse Sequence - part 3	01.04.2017	31.12.2017	
Details	BOSAPS_2	Bold Signal Alterations by Parameters of pulse Sequence - part 2	27.03.2017	30.07.2017	
Details	BOSAPS_4	Bold signal alterations casued by various sequence parameters	01.01.2020	31.12.2020	

Showing 1 to 5 of 5 rows. Show 25 rows per page.

© 2024 ICS MUNI | CEITEC CF BioData | Support contact: projects.mafil@ceitec.muni.cz

revision 3f51ab58 / 2024-02-07

Project details

https://mafildb.ics.muni.cz/projects/edit/pede83

MAFILDB (test) Tomáš

(test) Tomáš Slavíček
(9046145@muni.cz)

MAIN NAVIGATION

- Dashboard

ENTITIES

- Projects
- Subjects
- Visits
- Visits by project

Project details

Basic Information

Project full name	Data acquisition start date	Expected number of subjects
Advanced approaches to measuring and processing fMRI data wit	01.05.2023	Expected number of subjects
Project short name	Data acquisition end date	Expected single session time
AVATAR	31.12.2026	00:30:00

Time Format: hh:mm:ss

Project PACS acronyms: AVATAR

Data acquisition periods:

Modality/instruments required

Electrophysiological recordings

- High density EEG (256 channels + ECG)
- High density EEG (256 channels), long time measurement (over 1 hour)
- Other electrophysiological measurements
Including ECG, skin conductance, EMG, breathing, acceleration and general bipolar measurements.

Other

- Other - rTMS

Type of service

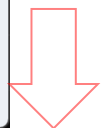
Data acquisition: Full service

Analysis: Not applicable

Data acquisition preparation: Not applicable

Ethic committee approval

Authorized people



Project details

https://mafildb.ics.muni.cz/projects/edit/pede83

Ethic committee approval **Ethic committee name**

Not applicable Ethic committee name

Ethic committee approval valid **Ethic committee approval valid until**

28.11.2023 28.11.2023

Consent sent

Insurance confirmed

CF MAFIL contact person **Project contact person**

Project applicant

Data access authorized person **Time slot reservation authorized person**

Additional information

Data access mode

Only with the consent of the project owner

Comment

Comment

Description

Description

[Back](#)

Statistics

Name	Value	Actions
Visits total	42	Show
Visits OK	42	
Visits unprocessed	0	
Visits hidden	0	
Visits migrated	0	
Visits migrated with measurements	0	

© 2024 ICS MUNI | CEITEC CF BioData | Support contact: projects.mafil@ceitec.muni.cz

revision 3f51ab58 / 2024-02-07

Manage subjects

https://mafildb.ics.muni.cz/subjects

MAFILDB (test) Tomáš

(test) Tomáš Slavíček (9046145@muni.cz)

Subjects

ID	UUID	Last name	First name	Personal_ID	Birth date	Mother language	Gender	Address
5037	s24b	H	D	92	34	31	32	SK F
8418	sc77	Bí	J	92	21	21	32	SK M
7350	s0b9	P	R	69	90	0	39	CZ F
8425	s603	C	Ji	69	67	2	39	CZ F @gmail.com
4309	s413	G	D	69	57	31	38	CZ M
8391	s0e3	D	A	01	16	21	31	CZ F
8358	sf71	V	M	81	12	2	31	CZ M
5140	s9f6	K	H	69	47	31	39	CZ F
8357	scd4	M	D	90	93	2	30	CZ M
8413	sea5	B	J	70	99	1	70	CZ F
47	s1ec	K	P	89	71	0	38	CZ F
8390	s2cc	Sr	M	76	94	11	76	CZ F
8389	s7c8	L	M	02	30	21	32	CZ F
8166	se1f	St	M	99	97	21	39	CZ M
8299	s918	Pr	D	01	79	0	31	SK F
8352	s96f	Ei	J	99	53	1	39	SK M
8317	sc6d	S	O	87	78	0	37	ot M
8318	s40d	Sl	J	96	56	2	36	CZ M
8319	s7c5	Z	Iv	79	67	1	78	CZ M

Subject details

https://mafildb.ics.muni.cz/subjects/edit/s0e3

MAFILDB (test) Tomáš

(test) Tomáš Slavíček (9046145@muni.cz)

MAIN NAVIGATION

- Dashboard
- Projects
- Subjects**
- Visits
- Visits by project

Subject details

Subject information

Subject ID: 8391 Subject UUID: s()

First name: / Last name: D

Gender: Female Mother language: Czech Handedness: Right handed

Birth date: 28 01 Personal ID: 01 16

Enter birth number without slash or other personal identifier.

Contact

E-mail: Telephone:

Address:

Related visits (no visits data will be changed editing this page)

Actions	Visit ID	Project
Details	6596B	AVATAR
Details	6544B	AVATAR

Showing 1 to 2 of 2 rows. Show 25 rows per page.

Visits by project

https://mafildb.ics.muni.cz/show_visits?acronym=AVATAR

MAFILDB (test) Tomáš

(test) Tomáš Slavíček (9046145@muni.cz)

MAIN NAVIGATION

- Dashboard
- ENTITIES
- Projects
- Subjects
- Visits
- Visits by project

Visits by project

Select a project:

AVATAR Show visits

Actions	Visit ID	Subject name	Birth date	Personal_ID	Initials and year of birth	Gender	Handedness	Age	Date of visit	Sessions	Quality check	
Details	Subject's details	6421B	R	19 02 02	16	I.R.2002	F	rh	21	02.11.2023	1	NOT_OK
Details	Subject's details	6531B	Si	06 87 87	78	O.S.1987	M	rh	36	14.12.2023	1	NOT_OK
Details	Subject's details	6545B	Pi	05 01 01	79	D.P.2001	F	rh	22	20.12.2023	1	NOT_OK
Details	Subject's details	6591B	B	20 92 92	21	J.B.1992	M	rh	31	18.01.2024	1	NOT_OK
Details	Subject's details	6592B	Pi	05 69 69	90	R.P.1969	F	rh	54	18.01.2024	1	NOT_OK
Details	Subject's details	6593B	C	25 69 69	67	J.C.1969	F	rh	54	18.01.2024	1	NOT_OK
Details	Subject's details	6584B	G	30 68 68	57	D.G.1968	M	rh	55	17.01.2024	1	NOT_OK
Details	Subject's details	6596B	D	28 01 01	16	A.D.2001	F	rh	22	22.01.2024	1	NOT_OK
Details	Subject's details	6544B	D	28 01 01	16	A.D.2001	F	rh	22	20.12.2023	1	NOT_OK
Details	Subject's details	6523B	V	25 81 81	12	M.V.1981	M	rh	42	12.12.2023	1	NOT_OK
Details	Subject's details	6546B	K	30 69 69	47	H.K.1969	F	rh	54	03.01.2024	1	NOT_OK
Details	Subject's details	6501B	M	25 90 90	93	D.M.1990	M	rh	33	04.12.2023	1	NOT_OK
Details	Subject's details	6548B	B	15 70 70	99	J.B.1970	F	rh	53	03.01.2024	1	NOT_OK
Details	Subject's details	6535B	Š	30 73 73	58	R.Š.1973	M	rh	50	18.12.2023	1	NOT_OK
Details	Subject's details	6541B	Ei	15 99 99	53	J.E.1999	M	rh	24	19.12.2023	1	NOT_OK

Visits by project

https://mafildb.ics.muni.cz/show_visits?acronym=AVATAR

MAFILDB (test) Tomáš

(test) Tomáš Slavíček (9046145@muni.cz)

MAIN NAVIGATION

- Dashboard
- ENTITIES
- Projects
- Subjects
- Visits
- Visits by project

Visits by project

Select a project:

AVATAR Show visits

Actions	Visit ID	Subject name	Birth date	Personal_ID	Initials and year of birth	Gender	Handedness	Age	Quality check	
Details	Subject's details	6421B	R	19 02 02	16	I.R.2002	F	rh	22	NOT_OK
Details	Subject's details	6531B	Si	06 87 87	78	O.S.1987	M	rh	30	NOT_OK
Details	Subject's details	6545B	Pr	02 01 01	79	D.P.2001	F	rh	22	NOT_OK
Details	Subject's details	6591B	B	20 92 92	21	J.B.1992	M	rh	31	NOT_OK
Details	Subject's details	6592B	Pr	09 69 69	90	R.P.1969	F	rh	54	NOT_OK
Details	Subject's details	6593B	C	23 69 69	67	J.C.1969	F	rh	54	NOT_OK
Details	Subject's details	6584B	G	30 68 68	57	D.G.1968	M	rh	55	NOT_OK
Details	Subject's details	6596B	D	26 01 01	16	A.D.2001	F	rh	22	22.01.2024 1 NOT_OK
Details	Subject's details	6544B	D	26 01 01	16	A.D.2001	F	rh	22	20.12.2023 1 NOT_OK
Details	Subject's details	6523B	V	22 81 81	12	M.V.1981	M	rh	42	12.12.2023 1 NOT_OK
Details	Subject's details	6546B	K	30 69 69	47	H.K.1969	F	rh	54	03.01.2024 1 NOT_OK
Details	Subject's details	6501B	M	21 90 90	93	D.M.1990	M	rh	33	04.12.2023 1 NOT_OK
Details	Subject's details	6548B	B	12 70 70	99	J.B.1970	F	rh	53	03.01.2024 1 NOT_OK
Details	Subject's details	6535B	Š	31 73 73	58	R.Š.1973	M	rh	50	18.12.2023 1 NOT_OK
Details	Subject's details	6541B	Ei	11 99 99	53	J.E.1999	M	rh	24	19.12.2023 1 NOT_OK

- Personal_ID
- Initials and year of birth
- Gender
- Handedness
- Age
- Visit comment
- Date of visit
- Sessions
- Quality check

Visits by project

https://mafildb.ics.muni.cz/show_visits?acronym=AVATAR

MAFILDB (test) Tomáš

(test) Tomáš Slavíček (9046145@muni.cz)

MAIN NAVIGATION

- Dashboard
- ENTITIES
- Projects
- Subjects
- Visits
- Visits by project**

Visits by project

Select a project:

AVATAR Show visits

Actions	Visit ID	Subject name	Birth date	Personal_ID	Initials and year of birth	Gender	Handedness	Age	Date of visit	Sessions	Quality check	
Details	Subject's details	6528B	SI	21 83 83	46	E.S.1983	F	rh	40	13.12.2023	1	NOT_OK
Details	Subject's details	6517B	O	a 11 82 82	56	P.O.1982	F	rh	41	11.12.2023	1	NOT_OK
Details	Subject's details	6442B	SI	21 83 83	46	E.S.1983	F	rh	40	13.11.2023	1	NOT_OK
Details	Subject's details	6430B	O	a 11 82 82	56	P.O.1982	F	rh	41	07.11.2023	1	NOT_OK

Showing 1 to 4 of 4 rows (filtered from 42 rows). Show 25 rows per page.

© 2024 ICS MUNI | CEITEC CF BioData | Support contact: projects.mafil@ceitec.muni.cz

revision 3f51ab58 / 2024-02-07

Visits by project

https://mafildb.ics.muni.cz/show_visits?acronym=AVATAR

MAFILDB (test) Tomáš

(test) Tomáš Slavíček (9046145@muni.cz)

MAIN NAVIGATION

- Dashboard
- ENTITIES
- Projects
- Subjects
- Visits
- Visits by project

Visits by project

Select a project:

AVATAR Show visits

Actions	Visit ID	Subject name	Birth date	Personal_ID	Initials and year of birth	Gender	Handedness	Age	Date of visit	TXT	CSV	MS-Excel	MS-Excel (OpenXML)	PDF	MS-Word	SQL	XML	JSON	check	
Details	Subject's details	6421B	R	19 02 02	16	I.R.2002	F	rh	21	02.11.2023										
Details	Subject's details	6531B	Si	06 08 87	81	O.S.1987	M	rh	36	14.12.2023										
Details	Subject's details	6545B	Pr	02 01 01	79	D.P.2001	F	rh	22	20.12.2023										
Details	Subject's details	6591B	Bi	20 09 92	21	J.B.1992	M	rh	31	18.01.2024										
Details	Subject's details	6592B	Pr	09 09 69	90	R.P.1969	F	rh	54	18.01.2024										
Details	Subject's details	6593B	Cr	23 09 69	67	J.C.1969	F	rh	54	18.01.2024										
Details	Subject's details	6584B	Gr	30 08 68	57	D.G.1968	M	rh	55	17.01.2024	1								NOT_OK	
Details	Subject's details	6596B	Di	26 01 01	16	A.D.2001	F	rh	22	22.01.2024	1								NOT_OK	
Details	Subject's details	6544B	Di	26 01 01	16	A.D.2001	F	rh	22	20.12.2023	1								NOT_OK	
Details	Subject's details	6523B	Va	22 08 81	12	M.V.1981	M	rh	42	12.12.2023	1								NOT_OK	
Details	Subject's details	6546B	Ka	30 09 69	47	H.K.1969	F	rh	54	03.01.2024	1								NOT_OK	
Details	Subject's details	6501B	M	21 09 90	93	D.M.1990	M	rh	33	04.12.2023	1								NOT_OK	
Details	Subject's details	6548B	Ba	12 07 70	99	J.B.1970	F	rh	53	03.01.2024	1								NOT_OK	
Details	Subject's details	6535B	Št	31 07 73	58	R.Š.1973	M	rh	50	18.12.2023	1								NOT_OK	
Details	Subject's details	6541B	Ei	11 09 99	53	J.E.1999	M	rh	24	19.12.2023	1								NOT_OK	

Automatické ukládání MAFILDB_export_2024-0... Hledat Tomáš Slavíček TS

Soubor Domů Vložení Rozložení stránky Vzorové Data Revize Zobrazení Automatizovat Nápověda

Komentáře Sdílet

Vložit Vložit Odstranit Formát Úpravy

Calibri 11 B I U % 000 .00 →.00

Podmíněné formátování Formátovat jako tabulku Styly buňky

Seřadit a filtrovat Najít a vybrat

Q1

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Visit ID	Subject name	Birth date	Personal_ID	Initials and year of birth	Gender	Handedness	Age	Date of visit	Sessions	Quality check						
2	6421B	R	19 02		16 I.R.2002	F	rh	21	02.11.2023	1	NOT_OK						
3	6531B	S	06 87	8	78 O.S.1987	M	rh	36	14.12.2023	1	NOT_OK						
4	6545B	P	02 01		79 D.P.2001	F	rh	22	20.12.2023	1	NOT_OK						
5	6591B	B	20 92	9	21 J.B.1992	M	rh	31	18.01.2024	1	NOT_OK						
6	6592B	P	09 69	6	90 R.P.1969	F	rh	54	18.01.2024	1	NOT_OK						
7	6593B	C	23 69	6	67 J.C.1969	F	rh	54	18.01.2024	1	NOT_OK						
8	6584B	G	30 68	6	57 D.G.1968	M	rh	55	17.01.2024	1	NOT_OK						
9	6596B	D	28 01		16 A.D.2001	F	rh	22	22.01.2024	1	NOT_OK						
10	6544B	D	28 01		16 A.D.2001	F	rh	22	20.12.2023	1	NOT_OK						
11	6523B	V	22 81	8	12 M.V.1981	M	rh	42	12.12.2023	1	NOT_OK						
12	6546B	K	30 69	6	47 H.K.1969	F	rh	54	03.01.2024	1	NOT_OK						
13	6501B	M	21 90	9	93 D.M.1990	M	rh	33	04.12.2023	1	NOT_OK						
14	6548B	B	12 70	7	99 J.B.1970	F	rh	53	03.01.2024	1	NOT_OK						
15	6535B	Š	31 73	7	58 R.Š.1973	M	rh	50	18.12.2023	1	NOT_OK						
16	6541B	E	11 99	9	53 J.E.1999	M	rh	24	19.12.2023	1	NOT_OK						
17	6538B	S	16 76	7	94 M.S.1976	F	rh	47	19.12.2023	1	NOT_OK						
18	6537B	L	25 02		30 M.L.2002	F	rh	21	18.12.2023	1	NOT_OK						
19	6528B	S	21 83	8	46 E.S.1983	F	rh	40	13.12.2023	1	NOT_OK						
20	6525B	H	01 77	7	18 R.H.1977	M	rh	46	13.12.2023	1	NOT_OK						
21	6521B	S	21 96	9	56 J.S.1996	M	rh	27	12.12.2023	1	NOT_OK						
22	6520B	Z	13 78	7	67 I.Z.1978	M	rh	44	11.12.2023	1	NOT_OK						
23	6517B	O	11 92	9	56 O.O.1992	F	rh	41	11.12.2023	1	NOT_OK						

Visit details

https://mafildb.ics.muni.cz/visits/edit/v8[redacted]

MAFILDB (test) Tomáš

(test) Tomáš Slavíček (9046145@muni.cz)

MAIN NAVIGATION

- Dashboard
- ENTITIES
- Projects
- Subjects
- Visits**
- Visits by project

Visit details

Visit information

Visit ID: 6421B Status: OK

Date of visit: 02.11.2023 Healthy control: Undefined

Visual correction [D]: Visual correction [D]

Measured by: Kudlíčka Petr, Krajíčková Lucie

Study informed consent stored at MAFIL

Personal data transfer agreement

General comment to visit

tetování nebo permanentní make-up
*10 2. VOB se po doměření zasekl - ověřit kvalitu logu (a kompletnost) vA

Subject Details

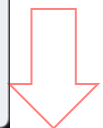
Subject UUID	s'	3
Name	R	a
Personal_ID	0	i
Birth date	1	2
Gender	F	

Project Details

AVATAR

Visit history

- "info_pacs_study_create_visit" at 12:44:03 2023-12-07 for study 1.3.12.2.1107.5.2.43.66041.: 00000010



Visit details

https://mafildb.ics.muni.cz/visits/edit/v8

Measurements

Session #1 [Details](#)
Session type: mr

[+ Expand all](#) [- Collapse all](#)

#	SN	Series description	Image type	Scans	Comment	Stim. protocol	Log file	RAW file	Fyziio	Siemens	Actions
1	1	AAHead_Scout	uns	128	Empty	Empty	Empty	Empty	Empty	Empty	Details
2	2	AAHead_Scout_MPR_sag	uns	5	Empty	Empty	Empty	Empty	Empty	Empty	Details
3	3	AAHead_Scout_MPR_cor	uns	3	Empty	Empty	Empty	Empty	Empty	Empty	Details
4	4	AAHead_Scout_MPR_tra	uns	3	Empty	Empty	Empty	Empty	Empty	Empty	Details
5	5	localizer	uns	5	Empty	Empty	Empty	Empty	Empty	Empty	Details
6	6	t1_mprage_sag_p2_iso_FoV-256	uns	240	Empty	Empty	Empty	Empty	Empty	Empty	Details
7	7	gre_field_mapping_3x3x3mm	uns	96	Empty	Empty	Empty	Empty	Empty	Empty	Details
8	8	gre_field_mapping_3x3x3mm	uns	48	Empty	Empty	Empty	Empty	Empty	Empty	Details
9	9	MBEPI_1020ms_SE_VFT_SBRef	uns	2	Empty	VFT O-D	6421/1	AVATAR_6421B_IR_SE_VFT	fyziio_EKG,fyziio_respiration_belt	Empty	Details
10	10	MBEPI_1020ms_SE_VFT	uns	305	Empty	VFT O-D	6421/1	AVATAR_6421B_IR_SE_VFT	fyziio_EKG,fyziio_respiration_belt	Empty	Details
11	11	MBEPI_1020ms_SE_VFT	uns	305	Empty	VFT O-D	6421/1	AVATAR_6421B_IR_SE_VFT	fyziio_EKG,fyziio_respiration_belt	Empty	Details
12	12	MBEPI_1020ms_SE_SFO_SBRef	uns	2	Empty	SFO	6421/1	AVATAR_6421B_IR_SE_SFO	fyziio_EKG,fyziio_respiration_belt	Empty	Details
13	13	MBEPI_1020ms_SE_SFO	uns	245	Empty	SFO	6421/1	AVATAR_6421B_IR_SE_SFO	fyziio_EKG,fyziio_respiration_belt	Empty	Details

MAFILDB

(test) Tomáš Slavíček (9046145@muni.cz)

MAIN NAVIGATION

- Dashboard

ENTITIES

- Projects
- Subjects
- Visits
- Visits by project

Measurement details

Measurement data

Visit: 6421B [Details](#) Session: 1 [Details](#)

Order of measurement: 10 Time of measurement: 15:04:59
Format is hh:mm:ss

Data quality check: Not assessed Study id: Study id Series number: 10

Software version: syngo MR E11 Station name: MRDevice - CEIMR1 Protocol name: MBEPI_1020ms_SE_VFT

Image type: Unassigned Dicom image type: ['ORIGINAL', 'PRIMARY', 'M', 'M'] Coil string: HC1-7;NC1

Sequence name: epfid2d1_72 Repetition time: 1020.0 Body part examined: HEAD

Echo time: 0.0 Flip angle: 50.0 Acquisition matrix: [72, 0, 0, 72] Field of view: 100

Log file: 6421/1

Slice thickness: 3.0 Spacing between slices: 2,9999999555369

Patient position: HFS Number of scans: 305 Echo number: Echo number Inversion time: Inversion time

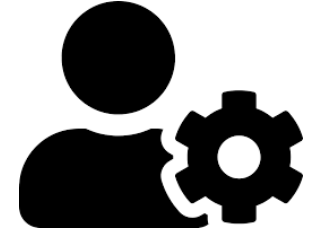
Mosaic locations in acquisition: Mosaic locations i Pat factor: p2 Bolus duration: Bolus duration Perfusion inversion time: Perfusion inversi

Fyzió EKG Fyzió respiration belt Fyzió GSR Fyzió ACC
 Fyzió pulse oxymeter Fyzió external
 Siemens EKG Siemens respiration Siemens PT

Series description: MBEPI_1020ms_SE_VFT

Comment: Comment

Ukázka z pohledu zaměstnance lab.



Studios in PACS

mafildb.ics.muni.cz/pacs/studies

MAFILDB

Tomáš Slavíček (142023@muni.cz)

Tomáš

Studios in PACS

Actions	Date	Time	Visit ID	Project	Subject	Date of birth	Birth number	Gender	Study ID	Study description	StudyInstanceUID
Study details Visit details	07.03.2023	16:32:29	6620A	MILF	FANTOM ADAMsDBS	01.01.1980	1-1-1980	O	1_1_0		1.3.6.1.4.1.20468.2.5.1.140
Study details	07.03.2023	16:32:29	6620A	TEST-FANTOM	FANTOM ADAMsDBS	01.01.1980	1-1-1980	O	1_1_0	-	1.3.12.2.1107.5.2.43.6604
Study details	02.02.2023	12:40:23	6506A	MILF	FANTOM ADAMsDBS	01.01.1980	1-1-1980	O	1	head^TESTING	1.3.6.1.4.1.20468.2.5.1.17
Study details Visit details	02.02.2023	12:40:23	6506A	TEST-FANTOM	FANTOM ADAMsDBS	01.01.1980	1-1-1980	O	1	head^TESTING	1.3.12.2.1107.5.2.43.6604
Study details	14.01.2023	14:19:23		TEST-HLAVA	FANTOM bv	24.05.2020	205524	F	1	head^CEITEC	1.3.12.2.1107.5.2.43.6604
Study details	06.02.2023	16:33:26		TEST-FANTOM	FANTOM	01.01.2000	23.02.06-16:32:16-STD-1.3.12.2.1107.5.2.43.66042	O	1	head^CEITEC	1.3.12.2.1107.5.2.43.6604
Study details	07.02.2023	16:42:24		TEST-FANTOM	fantom	01.01.2000	23.02.07-16:41:39-STD-1.3.12.2.1107.5.2.43.66042	O	1	head^CEITEC	1.3.12.2.1107.5.2.43.6604
Study details	24.02.2023	10:20:53		COLA	fantom cortical layers	01.01.2001	1234567890	O	1	head^CEITEC	1.3.12.2.1107.5.2.43.6604
Study details	04.04.2023	17:03:38		Smazat	fantom smazat	01.01.1990	12345	O	1	head^CEITEC	1.3.12.2.1107.5.2.43.6604
Study details	25.04.2023	15:08:37		TEST stimulance	fantom fantom	01.01.2000	23.04.25-15:07:11-DST-1.3.12.2.1107.5.2.43.66042	O	1	head^CEITEC	1.3.12.2.1107.5.2.43.6604
Study details	09.05.2023	16:44:47		TEST-FANTOM	fantom	01.01.2000	23.05.09-16:43:28-DST-1.3.12.2.1107.5.2.43.66042	O	1	head^CEITEC	1.3.12.2.1107.5.2.43.6604
Study details	11.05.2023	14:59:42		TEST_SPEKTRO	QA fantom test	01.01.2000	12345	O	1	spectroscopy^qa_1H	1.3.12.2.1107.5.2.43.6604
Study details	15.08.2023	15:43:47		MILF	FANTOM ADAMsDBS	01.01.1980	1-1-1980	O	2	head^clinical libraries	1.3.12.2.1107.5.2.43.6604
Study details	04.09.2023	14:31:30		ResArt	FANTOM	01.01.2000	23.09.04-14:21:01-DST-1.3.12.2.1107.5.2.43.66042	O	1	head^CEITEC	1.3.12.2.1107.5.2.43.6604
Study details	18.09.2023	14:17:48		ResArt	FANTOM	01.01.2000	23.09.18-14:13:38-DST-	O	1	head^CEITEC	1.3.12.2.1107.5.2.43.6604

Study details

mafildb.ics.muni.cz/pacs/study/1...

MAFILDB Tomáš

Tomáš Slavíček (142023@muni.cz)

MAIN NAVIGATION

- Dashboard

ENTITIES

- Projects
- Subjects
- Visits
- Visits by project

DATA ADMINISTRATION

- Check new imports

PACS

- Studies
- Series
- Instances
- Statistics

SYSTEM ADMINISTRATION

- Users
- Log
- Admin interface

Study details

Study tags in PACS

List of DICOM tags which are stored in PACS cache.

Date	02.02.2023
Time	12:40:23
Visit ID	6506A
Project	TEST-FANTOM
Subject	FANTOM ADAMsDBS
Birth date	01.01.1980
Personal ID	1-1-1980
Gender	O
Study ID	1
Study description	head^TESTING
StudyInstanceUID	1.3.12

Visit in MAFILDB

The following visit **already exists** for this study in MAFILDB.

Visit ID	6506A
Subject	FANTOM ADAMsDBS
Project	TEST
Date	02.02.2023
Status	✓ Processed
Actions	Details

Series in PACS

Actions	Time	SN	Description	ImageType	Instances	StationName	OperatorsName	BodyPartExamined	SliceThickness	RepetitionTime
Series details	12:49:03.683	2	t1_mpr_sag_ejaL	['ORIGINAL', 'PRIMARY', 'M', 'ND']	160	CEIMR2	Vojta	HEAD	2150	2150
Series details	15:29:20.636	8	t1_mpr_sag_ejaL	['ORIGINAL', 'PRIMARY', 'M', 'ND']	160	CEIMR2	Vojta	HEAD	2150	2150
Series details	12:49:03.966	3	t1_mpr_sag_ejaL	['ORIGINAL', 'PRIMARY', 'M', 'ND', 'NORM']	160	CEIMR2	Vojta	HEAD	2150	2150

- OperatorsName
- BodyPartExamined
- SequenceName
- SliceThickness
- RepetitionTime
- SpacingBetweenSlices
- PercentPhaseFieldOfView
- SoftwareVersions
- ProtocolName

Dashboard

mafildb.ics.muni.cz/show_logs

MAFILDB

Tomáš Slavíček (142023@muni.cz)

MAIN NAVIGATION

- Dashboard

ENTITIES

- Projects
- Subjects
- Visits
- Visits by project

DATA ADMINISTRATION

- Check new imports

PACS

- Studies
- Series
- Instances
- Statistics

SYSTEM ADMINISTRATION

- Users
- Log
- Admin interface

Log

Date	Type	User	IP address	Visit	Action	Message	Actions
2024-02-08 21:25:14	security				login	claims successfully verified (sub 14	muni.cz View
2024-02-08 21:24:56	security				login	claims successfully verified (sub 90	@muni.cz View
2024-02-08 19:08:13	security				login	claims successfully verified (sub 14	muni.cz View
2024-02-08 14:05:00	security				login	claims successfully verified (sub 14	muni.cz View
2024-02-08 13:45:44	security				login	claims successfully verified (sub 32	muni.cz View
2024-02-08 11:48:35	security				login	claims successfully verified (sub 23	muni.cz View
2024-02-08 10:52:36	security				login	claims successfully verified (sub 41	nuni.cz View
2024-02-07 23:14:00	security				login	claims successfully verified (sub 14	muni.cz View
2024-02-07 21:22:17	security				login	claims successfully verified (sub 32	muni.cz View
2024-02-07 13:32:54	info	7 @muni.cz	147.251.	508B Details	editing visit	ok	View
2024-02-07 13:23:12	info	7 @muni.cz	147.251.	6534A Details	editing visit	ok	View
2024-02-07 13:16:40	info	7 @muni.cz	147.251.	6872A Details	editing visit	ok	View
2024-02-07 13:14:59	security				login	claims successfully verified (sub 32	muni.cz View
2024-02-07 12:53:56	security				login	claims successfully verified (sub 14	muni.cz View
2024-02-07 12:49:02	security				login	claims successfully verified (sub 13	muni.cz View
2024-02-07 12:32:09	info	7 @muni.cz	147.251.		edited subject	49	View
2024-02-07 12:30:56	info	7 @muni.cz	147.251.		edited subject	66	View
2024-02-07 12:28:44	info	7 @muni.cz	147.251.		edited subject	69	View
2024-02-07 12:28:05	info	7 @muni.cz	147.251.		edited subject	65	View
2024-02-07 12:17:32	info	7 @muni.cz	147.251.		edited subject	60	View
2024-02-07 12:08:01	info	7 @muni.cz	147.251.	4085B Details	editing visit	ok	View
2024-02-07 11:57:50	info	7 @muni.cz	147.251.		edited project	TEST	View
2024-02-07 11:56:00	info	7 @muni.cz	147.251.		edited project	TEST	View

Select user to change | MAFILDB

mafildb.ics.muni.cz/admin/auth/user/

MAFILDB Administration

WELCOME, TOMÁŠ VIEW SITE / LOG OUT

Home > Authentication and Authorization > Users

Start typing to filter...

AUTHENTICATION AND AUTHORIZATION

- Groups + Add
- Users + Add**

MAFIL_DB_APP

- EF Devices + Add
- Institutions + Add
- MR Devices + Add
- Operator PACS names + Add
- Operators + Add
- PACS acronyms + Add
- Projects + Add

Select user to change

ADD USER +

Search

Action: ----- Go 0 of 17 selected

	USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
<input type="checkbox"/>	11 @muni.cz	11 @mail.muni.cz	Lubomír	Vojtíšek	✖
<input type="checkbox"/>	13 @muni.cz	13 @mail.muni.cz	Michal	Mikl	✔
<input type="checkbox"/>	14 @muni.cz	14 @mail.muni.cz	Tomáš	Slaviček	✔
<input type="checkbox"/>	23 @muni.cz	23 @mail.muni.cz	Martin	Lamoš	✖

17 users

FILTER

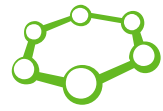
- By staff status
 - All
 - Yes
 - No
- By superuser status
 - All
 - Yes
 - No
- By active
 - All
 - Yes
 - No
- By groups
 - All
 - CF_admin
 - CF_manager
 - CF_operator
 - CF_user
 - Project at manager
 - Project at user
 - Project nager
 - Project r
 - Project nanager
 - Project ser
 - Project manager
 - Project user
 - Project manager
 - Project user
 - Project ager

Anonymizace údajů (počátek 2025)

- Právní titul nakládání s daty
 - Oprávněný zájem (jméno, příjmení, RČ, dat. nar., pohlaví, mat. jazyk, výška, váha atd.)
 - Informovaný souhlas (jméno, příjmení, datum narození, e-mail + telefon)
- Doba platnosti uchování OÚ v CF MAFIL
 - U starších dat doba 10 let (2015→**2025**), u nových (od 2022) doba **5 let**
- Anonymizace
 - Koordinovaný proces (iniciace, logy → MAFILDB)
 - Osobní údaje nahrazeny/smazány vč. PACS (!)
 - Zachováno - VisitID, příslušnost k projektu, provazba na PACS
 - **Výzva** 3 měsíce předem hlavnímu řešiteli projektu → kontrola údajů

Zajímavosti z MAFILDB

- 2015-2024
 - 13395 Visits (~15500 Study na PACS)
 - 7057 na MR A
 - 6338 na MR B
- Nejvíce ...
 - Study za rok – 2114 (2018)
 - Series za operátora – 56142 (PK)
 - Visits k projektu – 462
- Nej...
 - Delší BOLD sekvence – 8400 vzorků (2800*3echo/TR650ms/30,3minut)
 - Častější sekvence – T1 (t1_mprage_sag_p2_1iso), naměřeno 8252×



Díky za pozornost!

Otázky?

