

Tutkimuksen aktiivivaiheen datanhallinta ja käytännön kokemuksia kansainvälisestä tutkimusryhmästä

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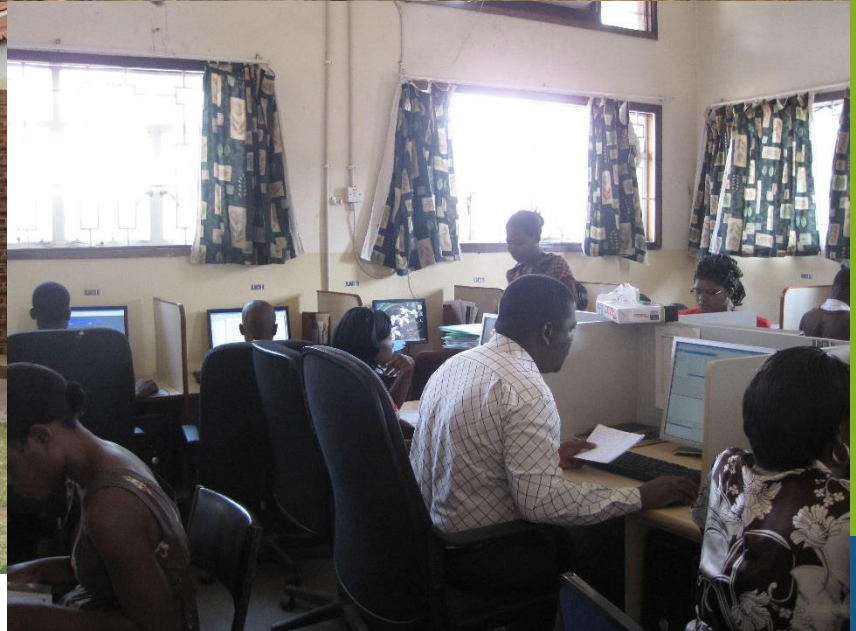


Esityksen rakenne

- Kansainvälinen yhteistyö
- Esimerkkitutkimus, iLiNS-DYAD
- Datankeruun vaiheet ja aineistonhallinta
- Kehitys iLiNS-DYADin jälkeen







iLiNS-DYAD data

- N = 1391 raskaana olevaa naista + 1403 lasta
- Max 130 tutkimuskäyntiä / osallistuja
- Noin 65 eri lomaketta (1-2 kieliversiota)
- 120 000 tutkimuskäyntiä (~20 000 tutkimusklinikalla)
- 227 000 täytettyä lomaketta
- Noin 15 miljoonaa datapistettä

- + paljon laboratorionäytteitä



Datankeruun vaiheet

- Suunnitellaan lomakkeet
- Data kerätään
- Data syötetään
- Saadaan data export
- Tutkija tarkistaa datan
- Tehdään korjaukset
- Data on ”valmis”



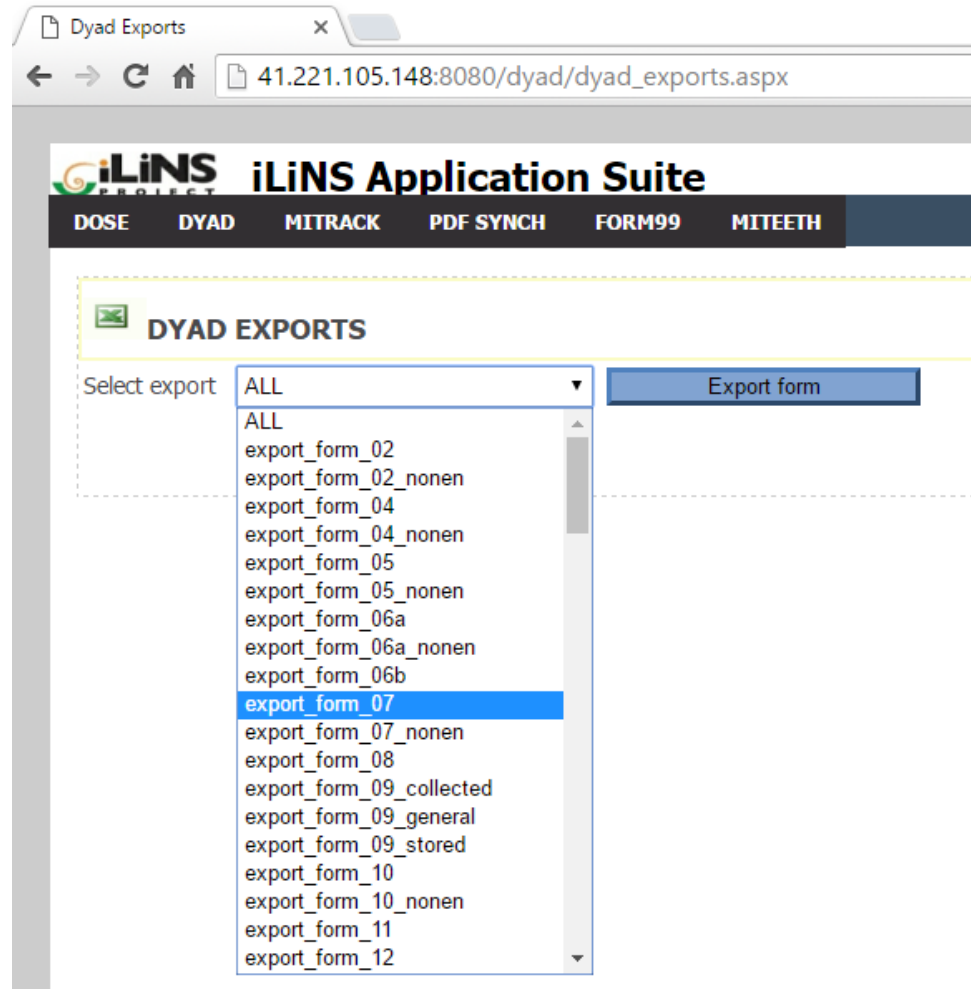
Datankeruun vaiheet

- Saadaan data export
 - MySQL:sta käytettävään muotoon
 - Jaetaan data tutkijoille
 1. Sähköpostilla
 2. Serverin kautta



Datankeruun vaiheet

- Saadaan data export



The screenshot shows a web browser window with the URL `41.221.105.148:8080/dyad/dyad_exports.aspx`. The page title is "iLiNS Application Suite" and the navigation menu includes "DOSE", "DYAD", "MITRACK", "PDF SYNCH", "FORM99", and "MITEETH". The main content area is titled "DYAD EXPORTS" and contains a "Select export" dropdown menu. The dropdown menu is open, showing a list of export forms: "ALL", "export_form_02", "export_form_02_nonen", "export_form_04", "export_form_04_nonen", "export_form_05", "export_form_05_nonen", "export_form_06a", "export_form_06a_nonen", "export_form_06b", "export_form_07", "export_form_07_nonen", "export_form_08", "export_form_09_collected", "export_form_09_general", "export_form_09_stored", "export_form_10", "export_form_10_nonen", "export_form_11", and "export_form_12". The "export_form_07" option is highlighted in blue. To the right of the dropdown menu is a blue button labeled "Export form".



Datankeruun vaiheet

- Tutkija tarkistaa datan
 - ”Form 99”
 - Tutkija listaa virheet
 - Henkilö Malawissa vertaa alkuperäiseen lomakkeeseen
 - Tutkija tekee lopullisen päätöksen korjauksista



Datankeruun vaiheet

Browser tabs: Dyad Exports, Dyad Exports, iLiNS-DYAD_3069.1_104c_

Address bar: https://dih.uta.fi/materials/research_data/iLiNS-DYAD/pdf/Participants/3069.1/iLiNS-DYAD_3069.1_104c_f31.pdf

3314

iLiNS PROJECT

iLiNS-DYAD trial: Form 31 (version 2012-05-31)
Medical examination of the child, Chewa Participant Code (Participant) 3069.1

1. Visit information

1.1 Number (code) of visit (NumberVisit)..... 104c

1.2 Date of visit (DateVisit)..... 19-11-2013

2. Health history

2.1 Kodi mwanayu panopo ali bwino?..... [1] Yes
Is the child currently well (informant's opinion)?(MedcCurrentWell) [0] No

2.1.1 Nqati sichoncho n'zifukwa zanzi? If not, what problems? (MedcProblems)
77

2.2 Musabata yapitayi mwana wanu wagona kangati mu masikito a udzudzu [0] Never
How often did the child sleep overnight under a bed net during the past week? (MedcUseBedNet) [1] 1 or 2 times
 [2] 3 - 6 times
 [7] Every night
 [99] Not Known

3. Medical examination

3.1 Any signs of dysmorphia (check only at enrollment visit). [0] No
(MedcDysmorphia): [1] Yes
 [77] Not assessed (Not enrollment visit)

3.1.1 If yes, specify: (MedcSpecDysmorp): 77

3.2 Does the child have any feature of acute illness? [0] No
(MedcAcuteIllnes) If "yes", no serum or urine should be collected from the child [1] Yes

3.2.1 If yes, explain: (MedcSpecAcuteIi) 77

3.3 Does the child have any feature of chronic illness?..... [0] No



Datankeruun vaiheet

- Tehdään korjaukset
 - Miten löydetään oikea datapiste, joka pitää korjata

	A	B	C	E	F	G	H	I	J	K	L	M
	Code of approver	Date of approval	FormNumber	ParticipNumber	VisitNumber	DateVisit	QuestionNumber	VariableName	Value in export	New value	Data edit category	Justification for the data edit
5	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrEliAssess			88	8
6	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrHouseGoats			88	8
7	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrHousePhone			88	8
8	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrHouseRoof			88	8
9	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrHouseWalls			88	8
10	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrInterested			88	8
11	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrLanguage			88	8
12	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrMotherAge			88	8
13	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrMotherChild			88	8
14	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrMothMarSt			88	8
15	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrMotPrimSch			88	8
16	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrMotSecnSch			88	8
17	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrNameVillage			88	8
18	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrPermission			88	8
19	537	2013-06-06	2	3057.0	mEli	03/06/2013		ScrPreviousParticipation			88	8
20	537	2013-06-06	2	3168	mEli	2011-07-26		ScrMotPrimSch	0	4	3	Based on values, primary and secondary school other way around
21	537	2013-06-06	2	3168	mEli	2011-07-26		ScrMotSecnSch	4	0	3	Based on values, primary and secondary school other way around
22	537	2013-06-06	2	3169	mEli	2011-07-29		ScrMotPrimSch	0	2	3	Based on values, primary and secondary school other way around
23	537	2013-06-06	2	3169	mEli	2011-07-29		ScrMotSecnSch	2	0	3	Based on values, primary and secondary school other way around
24	537	2013-06-06	2	3239.0	mEli	10/10/2011		ScrMotPrimSch	0	2	3	Based on values, primary and secondary school other way around
25	537	2013-06-06	2	3239.0	mEli	10/10/2011		ScrMotSecnSch	2	0	3	Based on values, primary and secondary school other way around
26	537	2013-06-06	2	3307.0	mEli	2011-12-12		ScrHousePhone			0	1
27	537	2013-06-06	2	3327	mEli	2012-01-03		ScrInterested			1	1



Datankeruun vaiheet

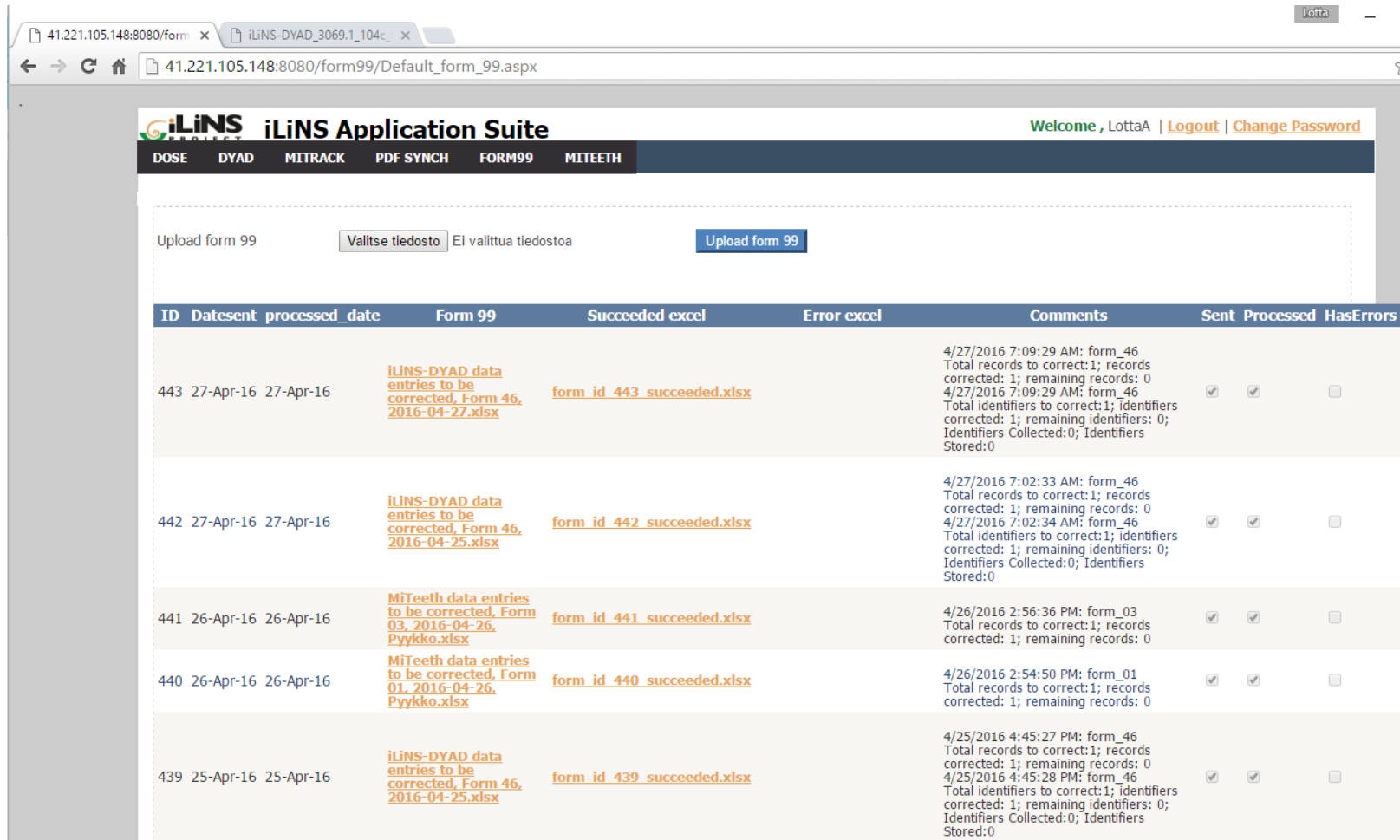
- Tehdään korjaukset

record_id	Participant	NumberVisit	AntWeightA	AntWeightB	AntWeightC	AntMuacA	AntMuacB	AntMuacC	AntSkinTriA	AntSkinTriB	AntSkinTriC	AntSkinSubA	AntSkinSubB	AntSkinSubC	AntScaled	AntStadiold
25149	8389.0	mEli	63.4	63.8	63.9	288	287	287	16.2	16.4	16.4	14.8	15.0	14.8	1	5
25151	8275.0	c01c	49.1	49.2	49.1	242	241	243	12.8	12.6	12.6	7.8	7.8	8.0	1	99
25152	8391.0	mEli	47.6	47.6	47.6	250	250	251	13.2	12.8	12.8	14.4	14.2	14.4	1	5
25153	8342.0	m32c	63.1	63.2	63.1	280	281	280	18.0	18.2	18.2	11.0	11.2	11.0	1	99
25155	8080.0	c26c	51.0	51.0	51.0	248	248	248	14.2	14.0	14.4	19.0	19.2	19.0	1	99
25156	8277.0	m32c	67.4	67.5	67.5	279	280	278	13.4	13.2	13.2	13.0	12.8	13.2	1	99
25157	8160.0	c01c	60.6	60.6	60.6	334	335	333	27.0	26.8	27.2	25.8	26.0	26.0	1	99
25158	3355.0	c01c	48.6	48.6	48.7	237	236	236	7.0	7.0	7.2	6.4	6.4	6.4	5	0
25159	3360.0	c01c	46.3	46.3	46.3	222	223	222	7.8	7.8	8.0	8.2	8.2	8.2	5	0
25160	8305.0	c01c	48.5	48.5	48.5	251	250	252	10.0	9.8	10.2	9.2	9.0	9.4	1	99
25161	8399.0	mEli	57.3	57.3	57.3	279	278	278	21.0	20.8	21.0	10.0	10.4	10.2	1	5
25162	3305.0	c01c	52.2	52.3	52.3	270	271	271	12.0	11.8	11.8	9.0	9.0	9.0	5	0
25164	8393.0	mEli	56.4	56.4	56.4	295	296	294	21.0	20.8	21.2	13.6	13.2	13.4	1	5
25165	5133.0	c01c	55.1	55.1	55.1	247	248	247	11.2	11.0	11.0	13.8	14.0	14.0	6	90
25166	5102.0	c01c	50.7	50.7	50.7	267	268	267	18.2	18.4	18.4	16.4	16.6	16.6	6	9
25167	5127.0	m36c	49.2	49.2	49.2	226	226	225	8.2	8.2	8.0	11.2	11.4	11.2	6	9
25168	5090.0	m36c	79.7	79.8	79.7	293	294	293	14.0	14.2	14.0	11.4	11.4	11.2	6	4
25169	8341.0	m32c	55.7	55.7	55.7	260	261	260	13.0	12.8	12.8	15.0	15.2	15.2	1	99
25170	8205.0	c01c	54.3	54.3	54.3	250	251	250	13.2	13.2	13.4	9.8	9.6	9.8	1	99
25171	3125.0	c26c	49.6	49.6	49.6	296	296	296	14.0	14.0	14.0	14.6	14.6	14.6	5	0
25172	3146.0	c26c	50.6	50.6	50.6	274	275	274	7.0	7.2	7.2	9.4	9.6	9.6	5	0her way around
25173	3370.0	c01c	60.6	60.6	60.6	255	256	256	15.0	15.2	15.2	17.4	17.2	17.2	5	0her way around
25174	3349.0	c01c	50.2	50.2	50.2	245	244	244	5.6	5.8	5.8	6.0	6.2	6.0	5	0her way around
25175	3358.0	c01c	51.2	51.1	51.1	247	248	248	11.0	11.2	11.2	11.0	11.2	11.2	5	0her way around
25176	3378.0	m36c	60.2	60.2	60.2	258	257	257	9.8	9.6	9.6	10.2	10.4	10.4	5	0her way around
25177	3365.0	m36c	72.1	72.1	72.1	311	312	312	17.2	17.2	17.4	10.2	10.4	10.4	5	0her way around
25178	3384.0	m32c	45.3	45.4	45.3	260	261	260	6.0	5.8	5.8	6.2	6.0	6.0	5	0
25179	3369.0	m36c	59.3	59.2	59.3	288	288	287	17.4	17.4	17.4	15.2	15.0	15.0	5	0
25180	3502.0	mEli	50.9	51.0	51.0	256	257	257	7.2	7.4	7.4	8.0	7.8	7.8	5	9
25181	3173.0	c26c	42.6	42.6	42.6	255	256	256	7.8	7.6	7.6	8.0	8.2	8.2	5	0
25182	3367.0	m36c	58.0	58.0	58.0	262	263	263	12.0	12.2	12.2	11.8	12.0	12.0	5	0
25183	3136.0	c26c	41.8	41.9	41.9	279	278	278	8.0	8.2	8.2	10.2	10.0	10.0	5	0
25184	3158.0	c26c	53.2	53.2	53.2	275	276	276	8.2	8.4	8.4	9.0	8.8	8.8	5	0
25185	3144.0	c26c	49.2	49.2	49.2	291	292	292	11.2	11.4	11.4	14.0	13.8	13.8	5	0



Datankeruun vaiheet

- Tehdään korjaukset



The screenshot shows the iLiNS Application Suite interface. At the top, there is a navigation bar with the iLiNS logo and the text "iLiNS Application Suite". To the right of the logo, it says "Welcome, LottaA" and provides links for "Logout" and "Change Password". Below the navigation bar, there are several tabs: DOSE, DYAD, MITRACK, PDF SYNCH, FORM99, and MITEETH. The main content area is titled "Upload form 99" and contains a button labeled "Valitse tiedosto" (Select file) and a button labeled "Upload form 99". Below this, there is a table with the following columns: ID, Datesent, processed_date, Form 99, Succeeded excel, Error excel, Comments, Sent, Processed, and HasErrors. The table contains five rows of data, each representing a successful upload of a Form 99 file.

ID	Datesent	processed_date	Form 99	Succeeded excel	Error excel	Comments	Sent	Processed	HasErrors
443	27-Apr-16	27-Apr-16	iLiNS-DYAD data entries to be corrected, Form 46, 2016-04-27.xlsx	form id 443 succeeded.xlsx		4/27/2016 7:09:29 AM: form_46 Total records to correct:1; records corrected: 1; remaining records: 0 4/27/2016 7:09:29 AM: form_46 Total identifiers to correct:1; identifiers corrected: 1; remaining identifiers: 0; Identifiers Collected:0; Identifiers Stored:0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
442	27-Apr-16	27-Apr-16	iLiNS-DYAD data entries to be corrected, Form 46, 2016-04-25.xlsx	form id 442 succeeded.xlsx		4/27/2016 7:02:33 AM: form_46 Total records to correct:1; records corrected: 1; remaining records: 0 4/27/2016 7:02:34 AM: form_46 Total identifiers to correct:1; identifiers corrected: 1; remaining identifiers: 0; Identifiers Collected:0; Identifiers Stored:0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
441	26-Apr-16	26-Apr-16	MiTeeth data entries to be corrected, Form 03, 2016-04-26, Pyykko.xlsx	form id 441 succeeded.xlsx		4/26/2016 2:56:36 PM: form_03 Total records to correct:1; records corrected: 1; remaining records: 0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
440	26-Apr-16	26-Apr-16	MiTeeth data entries to be corrected, Form 01, 2016-04-26, Pyykko.xlsx	form id 440 succeeded.xlsx		4/26/2016 2:54:50 PM: form_01 Total records to correct:1; records corrected: 1; remaining records: 0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
439	25-Apr-16	25-Apr-16	iLiNS-DYAD data entries to be corrected, Form 46, 2016-04-25.xlsx	form id 439 succeeded.xlsx		4/25/2016 4:45:27 PM: form_46 Total records to correct:1; records corrected: 1; remaining records: 0 4/25/2016 4:45:28 PM: form_46 Total identifiers to correct:1; identifiers corrected: 1; remaining identifiers: 0; Identifiers Collected:0; Identifiers Stored:0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Datankeruun vaiheet

- Data on ”valmis”
 - 38% formeista tarkistettu/korjattu (345 000 korjausta)



Kehitys iLiNS-DYADin jälkeen

Browser address bar: <https://dih.uta.fi/materials/include/shortcuts.html>

MATERIALS

Home Shortcuts Help

METADATA

- Data collection forms
 - iLiNS-DOSE
 - iLiNS-DYAD
 - LAIS
 - MiTeeth
 - MiTrack
- Form guides
 - iLiNS-DOSE
 - iLiNS-DYAD
 - MiTeeth
 - MiTrack
- Visit guides
 - iLiNS-DYAD
 - MiTeeth
 - MiTrack
- Blank Form 99 (.xlsx)
 - iLiNS-DOSE Form 99
 - iLiNS-DYAD Form 99
 - MiTeeth Form 99
 - MiTrack Form 99

DATA

- Collected forms (PDFs)
 - iLiNS-DOSE
 - iLiNS-DYAD
 - MiTeeth
 - MiTrack
- Data exports (Excels)
 - iLiNS-DOSE
 - iLiNS-DYAD
 - MiTeeth
 - MiTrack

OTHER

- iLiNS-codebook - constructed variables with descriptions for iLiNS-DOSE/DYAD
- List of forms (.xls)
- View published DIH articles
- Data Management SWI

iLiNS Application Suite

The site for DYAD/DOSE/MiTrack/Lab exports and PDF synchronization lists.
[Login](#) (Opens in new window)
[Access rights required]

TACC-GH, University of Tampere

Tampere Center for Child Health Research - Global Health Group at uta.fi/tacc-gh (Opens in new window)

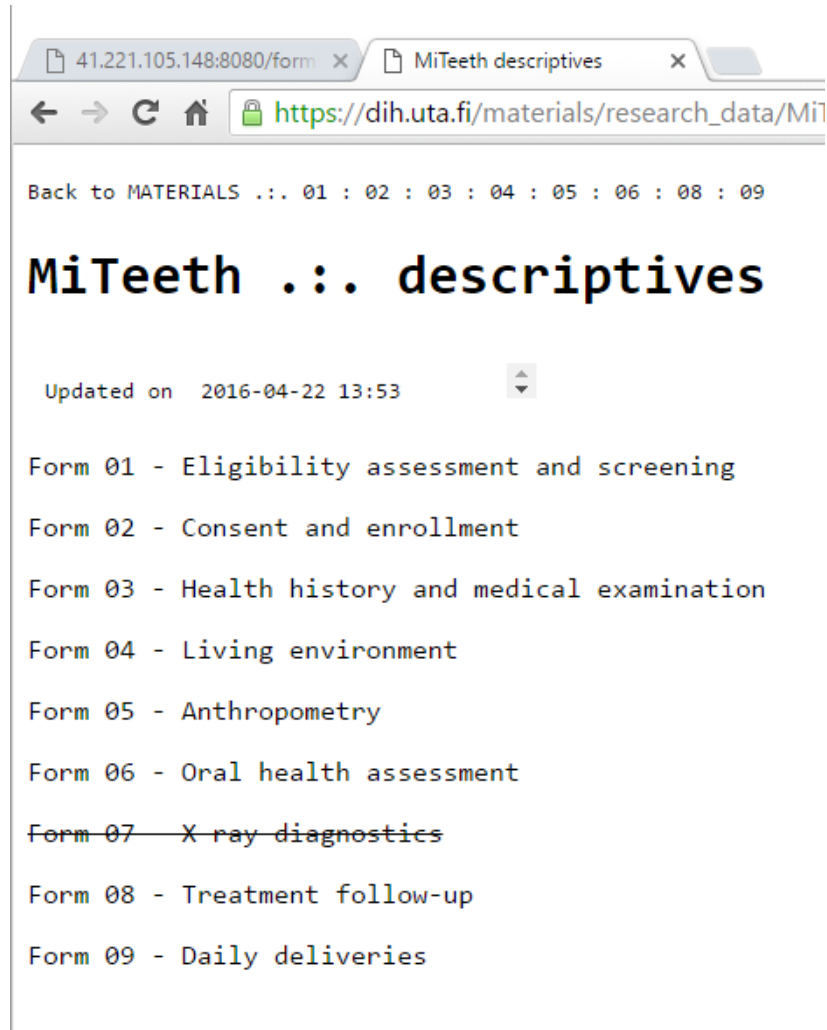
These are the most used links. For other sources you must use folder navigation from Home.

Please note, accessibility to shortcuts is dependent on your access rights.

Shortcuts' visibility don't vary by account - only whether clicking the link gets you there or not.



Kehitys iLiNS-DYADin jälkeen



The screenshot shows a web browser window with two tabs: '41.221.105.148:8080/form' and 'MiTeeth descriptives'. The address bar displays 'https://dih.uta.fi/materials/research_data/MiTeeth'. Below the browser interface, the page content includes a navigation link 'Back to MATERIALS .:. 01 : 02 : 03 : 04 : 05 : 06 : 08 : 09', a main heading 'MiTeeth .:. descriptives', and a timestamp 'Updated on 2016-04-22 13:53'. A list of forms follows: Form 01 - Eligibility assessment and screening, Form 02 - Consent and enrollment, Form 03 - Health history and medical examination, Form 04 - Living environment, Form 05 - Anthropometry, Form 06 - Oral health assessment, Form 07 - X ray diagnostics, Form 08 - Treatment follow-up, and Form 09 - Daily deliveries.

41.221.105.148:8080/form x MiTeeth descriptives x

← → ↻ 🏠 🔒 https://dih.uta.fi/materials/research_data/MiTeeth

Back to MATERIALS .:. 01 : 02 : 03 : 04 : 05 : 06 : 08 : 09

MiTeeth .:. descriptives

Updated on 2016-04-22 13:53

- Form 01 - Eligibility assessment and screening
- Form 02 - Consent and enrollment
- Form 03 - Health history and medical examination
- Form 04 - Living environment
- Form 05 - Anthropometry
- Form 06 - Oral health assessment
- Form 07 - X ray diagnostics
- Form 08 - Treatment follow-up
- Form 09 - Daily deliveries



Kehitys iLiNS-DYADin jälkeen

41.221.105.148:8080/form x MiTeeth form 05 x
https://dih.uta.fi/materials/research_data/MiTeeth/reports/descriptives/web/f05.html

Back to FORM LIST :: 01 : 02 : 03 : 04 : 05 : 06 : 08 : 09

MiTeeth :: Form 05 - Anthropometry

```

. * N visits
. tab NumberVisit, m

NumberVisit |      Freq.      Percent      Cum.
-----|-----|-----|-----
1 |          49      100.00      100.00
-----|-----|-----|-----
Total |          49      100.00

. * DUPLICATES ARE DROPPED FROM THIS REPORT
. * Child's age at the measurement
. tabstat ageVisit, stat(mean sd min max N) long col(stat) format(%9.2f)

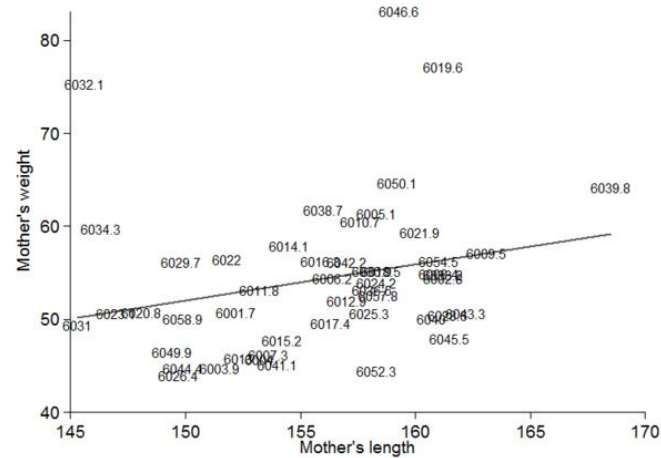
variable |      mean      sd      min      max      N
-----|-----|-----|-----|-----|-----
ageVisit |      1.00      0.46      0.00      2.00      49.00
-----|-----|-----|-----|-----|-----

. tab ageVisit

ageVisit |      Freq.      Percent      Cum.
-----|-----|-----|-----
0 |          5      10.20      10.20
1 |         39      79.59      89.80
2 |          5      10.20      100.00
-----|-----|-----|-----
Total |         49      100.00

. * 2. CHILD SIZE INFORMATION
. ** Mean of first two measurements
. tabstat WeightChildMean LengthChildMean MuacChildMean HeadChildMean, stat(mean sd min

variable |      mean      sd      min      max      N
-----|-----|-----|-----|-----|-----
WeightChildMean |      2.82      0.39      2.20      3.84      49.00
LengthChildMean |     48.26      1.65     44.20     52.60     49.00
MuacChildMean   |      9.73      0.77      8.50     11.75     49.00
HeadChildMean   |     34.14      1.45     31.45     39.05     49.00
    
```





Kiitos!

