

Healthcare: Oxford MDR Steve Harris



USING METADATA

annotation

office plugins

- allow user access to knowledge resources at the point of need
 - excel: terminology and metadata elements
 - UML modelling: terminology, metadata elements and model fragments
 - infopath : terminology and metadata elements and document fragments

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Form generation





integration – InfoPath 2007

- in clinical trial designs
 - incorporate metadata element into forms
 - qualify the meaning of sections on forms
 - define eligibility criteria/stratification variables
- in data capture forms
 - large/dynamic enumerated value domains: drug names; identifiers for clinical centres; ontology sub-trees

🗧 Eligibility.xml - Microsoft Office InfoPath		- 2 2
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Add and select controls in this table then edit the details for the control be	low.	
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InclusionCriteria	Inclusion Criteria	
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Insert item		subject to be allowed
Protocol:		to participate in a clinical study, as
		outlined in the study
The following set of concepts describe the conte	xt of this section:	protocol. Meeting
		inclusion criteria is not a sufficient
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Insert intervention cod		parent or guardian willing and able
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ParentConsent	the parent or guardian of the child to be enrolled into the study is willing and able	
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Insert item		
Protocol:		
Participants eligible to be enrolled into the study		
The following set of concepts describe the cont	ext of this section:	
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Form template's location: http://cg1.comlab.ox.ac.uk

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Form template's location: http://cg1.comlab.ox.ac.uk

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Visit 1 Date: Informed Consent: Inclusion Criteria 1. Parent Consent 2. Child Age Requirement 3. GP/Consultant Notification 4. Hepatitis Vaccination	16/03/2009 yes yes yes	er Study	• •

XForms

- W3C standard
- declarative form language
- replace HTML forms
- cf Adobe Flex, MS Silverlight, Mozilla XUL



what it does

- enumerated simple types => drop down lists
- date => date selector
- required controls => visual indication of mandatory nature and requirement for completion for submit
- data types enforced on input fields (numerics, non-negative integers ...)
- additional scripting changes xf:input to xf:textarea, replaces xf:input with server-supplied combo/list box, interfaces with lookup popups ...

customising template (replace all change description controls with a memo field – generated from specification document)

</xsl:template>

deployed control
<xforms:textarea
 ref="//cgMDR:change_description">
 <xforms:label>Change_Description</xforms:label>
</xforms:textarea>



Study

Item Registration Authority Identifier	Select	▼* ⁸
Data Identifier	3F9FD5A0B1DE43D3AED20B92D3E98F0E	*
Version	1	*
		Administration Record
Registration Status	Select	- * 😫
Administrative Status	Select	▼ * <mark>8</mark>
Creation Date	05/28/2012	
Effective Date	05/28/2012	
Last Change Date	05/28/2012	
Until Date	01/01/2020	

Administrative Note

Change Description

Explanatory Comment



Data discovery



PAGE 5 OF THE QUESTIONNAIRE

A22. Children in our class fight a lot

Yes No 2

A23. A few children in my class want to be first all of the time

Yes No 2

A24. Most of the pupils in my class know how to do their work





ccd200 A21: The class is fun

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	3270	39.9	40.2	40.2
	2 Sometimes	4552	55.5	55.9	96.1
	3 No	321	3.9	3.9	100.0
	Total	8143	99.4	100.0	
Missing	-1 No response	53	.6		
Total		8196	100.0		

ccd205 A22: Children in child's class fight a lot

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1658	20.2	20.4	20.4
	2 No	6426	78.4	79.1	99.6
	3 Sometimes	36	.4	.4	100.0
	Total	8120	99.1	100.0	
Missing	-1 No response	76	.9		
Total		8196	100.0		

ccd210 A23: A few children in child's class want to be first all the time

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5446	66.4	67.3	67.3
	2 No	2634	32.1	32.5	99.8
	3 Sometimes	17	.2	.2	100.0
	Total	8097	98.8	100.0	
Missing	-9 Don't know	1	.0		
	-1 No response	98	1.2		
	Total	99	1.2		
Total		8196	100.0		

ccd215 A24: Most of the pupils in child's class know how to do their work

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	7421	90.5	91.4	91.4
	2 No	687	8.4	8.5	99.9
	3 Sometimes	11	.1	.1	100.0
	Total	8119	99.1	100.0	
Missing	-1 No response	77	.9		
Total		8196	100.0		

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Administered Item Ide	ntifier	GB-OUCL-4736880	08-1.0			
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Definition		test				
Registered By		Steve Harris (Research Oxford Comlab	arch Fellow)			
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GB-OUCL-5DBCC03E-1.	0 Questionr ka001	naire version (Forr	n type)		GB-OUCL-AD1B9D47-1.0	sameAs
GB-OUCL-468D233C-1.0	Reaction a ka010	at birth			GB-OUCL-E5C6AD44-1.0	sameAs
GB-OUCL-1E2D0AEA-1.	0 Time until ka011	put to breast			GB-OUCL-0126D16D-1.0	sameAs
GB-OUCL-1143400B-1.0	Time next ka012	to mum in 1st 2 d	ays		GB-OUCL-0908C607-1.0	sameAs
GB-OUCL-D1C68AD5-1.	0 Time next ka013	to mum in 1st 2 n	ights		GB-OUCL-97D01A7B-1.0	sameAs
GB-OUCL-3B4C55B6-1.0) Time next ka013a	to mum in 1st 2 n	ights (adjusted)		GB-OUCL-03B88B17-1.0	sameAs
GB-OUCL-0D5AB2E1-1.0	Admission ka014	n to SCBU etc			GB-OUCL-13BAAA42-1.0	sameAs
GB-OUCL-92534E0B-1.0	Readmitte ka020	ed to hospital			GB-OUCL-1C06DB4D-1.0	sameAs
GB-OUCL-E8884D70-1.0	buration of ka021	of stay			GB-OUCL-241A9B79-1.0	sameAs

Dete							welcome: guest
MRC Support						meta	adata registry
browse search	discover	Ur	derstand	login			
		Data El	ement:	Baby bre	east fed		
44 XML							
Administered Item - Preferred	Name: Baby b	reast fed					
Administered Item Identifier	GB-OUCL-916						
Registration Status explain	Application						
Definition	(undefined)						
Registered By	Steve Harris (F Oxford Comilat		low)				
	Contro Connas					Value D	omain Attributes
Value domain record	Baby breast fe	bd					
Conceptual Domain	Baby breast fe	bd					
Datatype	xs:string (XML	Schema)					
Unit of Measure	and the second second						
Format	not specified						
Maximum Character Quantity	not specified						
Representation Class							Valid Values
Valid Values	value		mea	ening			uri
	-1		Miss				
	1		Abwa				
	2		Offe				
	3			netimes			
	4		Nev	ēt.			
							Field Names
Field Names	field name				preferred		
	ka094				true		
						A	Iodel Reference
Expresses data element concept (full record)	Baby breast fe	rd.					
Object class	default object	class					
Property	default proper						
Precision	0						
Example	not specified						
Typed by Representation Class	not-specified						
Representation Class Qualifier	ungualified						
Related data elements	and a second sec						
	-					Refere	nce Documents
Reference Documents	id	language	title		description		
	C500288C6	eng	ka094 Ba	by breast fed	Frequency plots as	sociated with ALSPAC var	riables
	Avenue		01er	Scottes .	tuiver	Mapric	100
							17 C
							60
							1.241
	48.1				86.0		40
	-			-			20
			63	-			
				21		*	

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Representation Glass Qualitier unqualitieu

Related data elements

Reference Documents



Naming

Naming	context	language	name	preferred
	Avon Longitudinal Study of Parents and Children	GB-eng	Baby breast fed	true
	Avon Longitudinal Study of Parents and Children	GB-eng	ka094	false

Administration

Administrative Status explain	noPendingChanges	
Administered By	Steve Harris	
	Research Fellow	
Created On	not-specified	
Effective From	not-specified	

Variable: 'Can carer understand child' Speech Q 25 mth

as XML

Administered Item - Preferred Name: 'Can carer understand child' Speech Q 25 mth

Administered Item Identifier	GB-OUCL-7D36B7A8443C4E7E91E418677117EC83-1 add to cart
Registration Status explain	Recorded
Definition	not-specified
Registered By	Dr. Steve Harris (Researcher, IDH)
	Oxford Comlab

as XSD

Value Domain Attributes

Value domain record	Value domain for cf414
Conceptual Domain	Conceptual domain for cf414
Datatype	xs:string (XMLSchema)
Unit of Measure	
Format	not specified
Maximum Character Quantity	not specified

Valid Values

Valid Values	value	meaning
	-1	Missing
	-2	Did not attend
	1	most of time
	2	sometimes
	3	rarely
	4	doesnt talk at all

Field Names

Field Names	field name	preferred
	cf414	true

Usage

Related data elements	Children in Focus part of dataset
	'Takes turns talking' Speech Q 25 mth precedes this data element in dataset
	'How often follows instructions' Speech Q 25 mth precedes this data element in dataset
	'Points to body parts' Speech Q 25 mth precedes this data element in a dataset
	'How describe childs talking' Speech Q 25 mth follows this data element in a dataset
	'Hoarse/husky voice' Speech Q 25 mth follows this data element in a dataset
	'Stuck/repeat words' Speech Q 25 mth follows this data element in a dataset

Classification

Classification	term
	25 months
	Children in Focus dictionary

cart items: 0 export to xml

welco cart items: 0						MRC Data Suppor Service
	logout	create	understand	discover	browse	search

Data Element Search

Submit every Name and D Definition Values Q119 How much does this bother you add to set Code Meaning 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT 4 GREATLY Q119 How much does this bother you add to set Code Meaning 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT 4 GREATLY Q119 How much does this bother you add to set Code Meaning 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT 4 GREATLY 2 A LITTLE 3 SOMEWHAT 4 GREATLY Q119 How much does this bother you add set Code Meaning 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT 4 GREATLY		bother you]	
Q119 How much does this bother you Data Type://www.chubesec/ec/socies/end/s	Name and ID		Values	
Be-OUCL-DISSER CAD1194448300EBEP543DE2AD21 MRECIP9B add to cart MRECIP9B add to cart MRECIP3B add to cart Add to cart Ad	2119 How much does this bother you 98-OUCL-88D04D8C04BE4BC29C291D0E30FF71C1-1 add to cart		Data Type:xs:double Units:(not applicable) Code Meaning 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT	
GB-OUCL-0148E28EC41443CASEA654F4248A173F-1 MRECIP3B MRECIP3B Add to cart MRECIP3B Add to cart Q119 How much does this bother you GB-OUCL-08E14EBAD02443D08568547F1ECCC44-1 Add to cart MRECIP4B Q119 How much does this bother you GB-OUCL-08E14EBAD02443D08568547F1ECCC44-1 Add to cart MRECIP4B Q119 How much does this bother you GB-OUCL-38E4FBAD02443D08568547F1ECCC44-1 A GREATLY Q119 How much does this bother you GB-OUCL-38E4FBAD02443D08568547F1ECCC44-1 A GREATLY Q119 How much does this bother you GB-OUCL-38E4FBAD02443D08568547F1ECCC44-1 A GREATLY Q119 How much does this bother you GB-OUCL-38E4FBAD02443D08568547F1ECCC44-1 A GREATLY MRECIP1B ADD A TALL A GREATLY A GREATLY A GREATLY A GREATLY A GREATLY	3B-OUCL-D188FACAD1164548850EBBF548DEAA5D-1 add to cart		Units:(not applicable) Code Meaning 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT	
GB-OUCL-08E14EBAD02443D88568547F1EEC2C44-1 Units:(not applicable) MRECIP4B Code Meaning 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT 4 GREATLY Q119 How much does this bother you Data Type:xs:double GB-OUCL-3434F0AFDF084289AD1D40408830DA4E-1 Units:(not applicable) MRECIP1B Code Meaning 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT 4 GREATLY MRECIP1B Data Type:xs:double 0 Units:(not applicable) 2 A LITTLE 3 SOMEWHAT 4 GREATLY	BB-OUCL-0148E26EC41443CA8EA654F4246A173F-1 add to cart		Units:(not applicable) Code Meaning 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT	
BB-OUCL-3434F9AFDF084289AD1D40408880b44E-1 Units:(not applicable) add to cart Code Meaning MRECIP1B 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT 4 GREATLY	38-OUCL-08E14E8AD02443D68568547F1EEC2C44-1 add to cart		Units:(not applicable) Code Meaning 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT	
start prev 1 to 5 of 9 next last	3B-OUCL-3434F9AFDF084289AD1D40408836DA4E-1 add to cart		Units:(not applicable) Code Meaning 1 NOT AT ALL 2 A LITTLE 3 SOMEWHAT	
	start prev	1 to 5 of 9	next I	ast





Whitehall sweep 7 questionnaire data part of dataset Q119 Put partner ahead of own needs precedes this data element in dataset Q119 How much does this bother you precedes this data element in dataset Q119 Mutual understanding in partnershi precedes this data element in a dataset Q119 Satisfied amount of give-n-take follows this data element in a dataset Q119 How much does this bother you follows this data element in a dataset Q119 Well respected by your children follows this data element in a dataset



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Data Element by Classifier

Search within classification	Origin Nam es		Definitions	Values		
(reset form)	ALSPAC A1a: Child's school to go each day	ool is a place where they really like	(undefined)	data type: xs:string units:		
Schemes	ccj100			enumerations:		
ALSPAC by age 🔹	A1a: Child's schoo	add to cart ol is a place where they really like to go		-1 No response-10 Not completed-11 Triplet / quadruplet1 Agree2 Mostly agree3 Mostly disagree4 Disagree99 DK		
Classification	each day					
broader terms Alspac by child age selected term	ALSPAC A1a: Frequency spinning/moving minutes during	g around, lasting less than 2	(undefined)	data type: xs:string units: enumerations:		
134 months	r1000	add to cart		-1 No response-10 Not completed-11 Triplet / quadruplet0 Other text answer1 > than once a week2 > than once a month3 4-12 times4 1-3 times5 Not at all9 DK		
related terms		espondent felt things spinning/moving		times4 1-3 times5 Not at all9 DK		
8 wks gest	around, lasting les months	ss than 2 minutes during past 12				
12 wks gest 18 wks gest		respondent has felt things	(undefined)	data tura: valating		
32 wks gest	spinning/moving	g for less than 2 mins in past 12	(undenned)	data type: xs:string units:		
4 weeks	months			enumerations:		
8 weeks	pp1000			-1 No response-10 Not complete d-11 Triplet / quadruplet1 > Once a week2 > Once a month3 4-12 times4 1-3 times5 Not at all		
4 months		add to cart		a week2 > Once a month 3 4-12 times4 1-5 times3 Not at all		
6 months		espondent has felt things or less than 2 mins in past 12 months				
8 months		ool is a place where their teacher is	(undefined)	data type: xs:string		
12 months	fair to them		(undonnou)	units:		
15 months	ccj101			enumerations:		
18 months		add to cart		-1 No response-10 Not completed-11 Triplet / quadruplet1 Agree2 Mostly agree3 Mostly disagree4 Disagree99 DK		
21 months		ol is a place where their teacher is fair to		monly agrees monly abagrees bloagreess bit		
24 months	them	and and faile shines	(undefined)			
25 months	ALSPAC A1b: Frequency	g around, lasting up to 20 minutes	(undefined)	data type: xs:string units:		
30 months	during past 12 m		enumerations:			
31 months	r1001					
33 months	add to cart text answer1 > than once a week2 > than once a times4 1-3 times5 Not at all9 DK					
37 months	A1b: Frequency respondent felt things spinning/moving around, lasting up to 20 minutes during past 12 months					
38 months						
42 months	start	prev	1 to 5 of 1394	next last		



search

brow

discov

understand

create

maintain

log

Names	Definition			
F File	DATA COLLECTE	D FROM THE QUESTIONNAIRE 'Looking After the Ba	by' at 8 months	
Focus 10 +	sample provides b questions. These a	en in Focus' was to examine the children in a way that of oth a validation for certain aspects of the self-completion are related, for example, to the ways in which childhood skills and early cognition are related to the development nent of the child	n questionnaires and an answer to some important diet, growth, anaemia, otitis media with effusion, vi	t isual
Focus 11 +	sample provides b questions. These a	en in Focus' was to examine the children in a way that of oth a validation for certain aspects of the self-completion are related, for example, to the ways in which childhood skills and early cognition are related to the development nent of the child	n questionnaires and an answer to some important diet, growth, anaemia, otitis media with effusion, vi	t isual
Focus @ 7	sample provides b questions. These a	en in Focus' was to examine the children in a way that of oth a validation for certain aspects of the self-completion are related, for example, to the ways in which childhood skills and early cognition are related to the development ment of the child	n questionnaires and an answer to some important diet, growth, anaemia, otitis media with effusion, vi	t isual
Focus @ 9	sample provides b questions. These a	en in Focus' was to examine the children in a way that o oth a validation for certain aspects of the self-completio are related, for example, to the ways in which childhood skills and early cognition are related to the developmen nent of the child	n questionnaires and an answer to some important diet, growth, anaemia, otitis media with effusion, vi	t isual
start	prev	1 to 5 of 6	next last	





Reference Documents language id title 🗱 cancergrid W3C * RDFa W3C css 🗸 💽 👔 C5DD288C6 ka094 Baby breas eng 100 Always Often Sometimes Never Missing 80 60 44.1 44.0 40 20 83 5

Whitehall Timeline

← → C

☆ https://localhost:8443/exist/mdr/timeline/timeline-new.xql

🕒 PTCRI 🞦 Metadata 🎦 Admin 🔁 Modelling 📮 Clinical Trials 🔁 XML 🚍 selenium 📮 MRC DSS 📮 Personal 🚍 eGov 📮 IST/40 🌓 RDFa Highligi

MRC Suppo Servic

month symptoms 1950 study first age health reason day 4 doctor 1999 whether used much years names preparations life taken problem during 2nd stopped 1st child occasion time weeks period 10 prescribed recently old periods children cohort test work up hysterectomy everyday 3rd

reasons preparation bothered many card chest breast 3 give mother urine pressure medicine being illness go days felt town pain blood s partner importance important menstrual admitted order 1-3 mammogram ranking started charge recent more 4th condition oopherectomy household ward private treated diagnosis case