Instructions for using Mica Search Tool of euCanSHare Data Catalogue

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euCanSHare Data Catalogue

- Data Catalogue is a discovery tool for cardiovascular research data.
- It provides detailed information on
 - characteristics of the studies, such as study design and data access policies;
 - data collected in the studies, such as variable descriptions;
 - omics and bioimaging data available for the studies.
- Data Catalogue is built using OBiBa's Mica and Opal software applications, including:
 - <u>Cohort Browser</u> that provides a structured description of the participating studies, and
 - <u>Search Tool</u> that allows users to browse information within the Data Catalogue using a powerful search engine.
 - Instructions for using the Search Tool are provided in this tutorial.

More information on catalogue tools

- OBiBa tools are open source software for data management, harmonization, co-analysis and dissemination of the epidemiological research.
- OBiBa tools are described in detail in the websites of the <u>Maelstrom</u> <u>Research</u> and <u>OBiBa</u>
- Watch also the video tutorial on using the search of the Maelstrom Catalogue that is built on same tools as the euCanSHare Data Catalogue
 - Video: <u>https://www.maelstrom-research.org/page/tutorials?topic=search</u>

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euCanSHare Data Catalogue frontpage: <u>https://mica.eucanshare.bsc.es/</u> Mica Search Tool can be accessed by clicking GO in "Search for studies and variables"



Functionalities of the Search Tool (1/22) Basic functionalities





Functionalities of the Search Tool (3/22) Basic functionalities - Icons for data collected in the studies



Functionalities of the Search Tool (4/22) Basic functionalities - Results as a list of <u>variables</u>



Functionalities of the Search Tool (5/22) Basic functionalities - Results as a list of datasets 🚯 Individual 🔻 (\mathbf{a}) Clear search Filter by Studies Lists view Comparison table List view of datasets selected O Study properties O Data topics and sources Variables 101 3.1 Datasets 175 Studies 31 O Omics data Individual Harmonization O Imaging data Show 20 entries 3 4 5 ... 2 9 Next Previous O Biosamples Studies Variables Acronym Name Type O Study identification mica_dataset.classname.studydataset AtheroGeneBL Atherogene 1 69 Filter by Variables Study Baseline O General classification AtheroGeneEU AtheroGene mica_dataset.classname.studydataset 1 8 Study Follow-up O CV rel. diseases variables KORA0101 MORGAM KORA Cohort 01 mica_dataset.classname.studydataset 98 O Variable name & label Baseline See the dataset MORGAM data description and the KORA01FU_MORGAM KORA Cohort 01 mica dataset.classname.studydataset 55 variables included. © 2022 by the euCanSHare Project Follow-up

MODELLA Jaka

Adding search criteria and presenting results (1/2)

Filter by Studies

Study properties

Search criteria can be applied either using properties defined on <u>1) study-level or 2) variable-level, or both</u>, and search results in all cases can be chosen as list of studies, datasets or variables.

 To search by using <u>study-level properties</u> i.e. filtering search results based on data collected in the studies or the features of the participants. "Filter by Studies"



Adding search criteria and presenting results (2/2)

2) To search by using <u>variable-level properties</u> i.e. filtering search results by the contents of the variables included in the studies. "Filter by Variables"



General classification

O CV rel. diseases variables

🔵 Variable name & label



Filtering on variable-level affects in addition to studies included, also to the list of the variables by their content. Comparison table view can also be selected after filtering by variables' content.

Functionalities of the Search Tool (6/22) 1) Adding search criteria in <u>study-level</u> - <u>Filter by studies</u>



Functionalities of the Search Tool (7/22) 1) Adding search criteria in <u>study-level</u> - Study properties

Study properties

Study properties as defined in the catalogue.

Select all subcategories at once

		Study design	Sele	ct All Clear Selection	Selection criteria - C	ountry of residence	Select All
ħen lick:	Here selected are "cohort" from "study design" and "general population" from "sources of recruitment" Display results	The design of an observation control). Cohort Cross-sectional Observational study Pointin gives th of the c	al or experimental study (Case-control <u>Clinical trial</u> that involves the analysi g by mouse he descriptior category.	e.g. cohort, case Case only <u>Other</u> s of data collected from ▼ More	Participant's country Andorra Antigua and Armenia Armenia Argentina Australia Azerbaijan Bangladesh Bulgaria Benin	y of residence. United Arab Emirates Anguilla ecific point in time. Angola American Samoa Aruba Bosnia and Herzegovina Belgium Bahrain Dre: See all cat	 Afghanistan Albania Antarctica Austria Åland Islands Barbados Burkina Faso Burundi
		Selection criteria - Sex		Select All	Sources of recruitme	ent	Select All Clear Selection
		Participant's sex			The population(s) fro	om which individuals are rec	ruited to participate in the
© 202	2 by <u>the euCanSHare Project</u>	□ Men only □	Women only	▼ More	General population	on Specific population	 Participants from existing studies

Functionalities of the Search Tool (8/22) 1) Adding search criteria in <u>study-level</u> - Data topics and sources



Functionalities of the Search Tool (9/22) <u>Results by studies</u> when some <u>study-level</u> properties are selected. Modifying the search query

By clicking small arrows in the query you can modify the criteria. Note that OR "|" is the default operator when selecting many categories within one section: AND-operator can not be applied here.

Description

category.

missing.

"in".

Operation

any

none

(default)

not in

in



Filter by variables -options (1/2)

- General classification
 - "Areas of Information" classification for the topics of the variables, developed by Maelstrom Research
 - A variable is classified into some subcategory of e.g. "Lifestyle and behaviours", "Diseases" or "Laboratory measures"
 - Cardiovascular (CV) related disease variables
 - This classification includes some specific CV related diseases, that are subcategories of broader definition of the diseases, developed by euCanSHare

These classifications make it possible and easy to search for variables in the specified areas of interest across the studies.

• Studies must have added the variable descriptions and also classified each variable into these categories, to be able to find that study and its variables when using variable-level filtering.

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Filter by Variables

O General classification

🔘 Variable name & label

🔾 CV rel. diseases variable🌶

These two variable classifications are the recommended way to 17 perform a search using the variable properties. © 2022 by the euCanSHare Project

Filter by variables -options (2/2)

- Variable name & label
 - Search by matching the text in the variable name or label text
 - Using this search may miss some or all relevant variables of the studies, due to e.g.
 - language or abbreviations used, or
 - insufficient information given in the variable label (the information can be written in the broader description of the variable, and that is not used in the search).
 - This search option can be used in the situations when the variables of the study are already familiar to the user.



O General classification

O CV rel. diseases variables

🔘 Variable name & label

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Functionalities of the Search Tool (10/22)2) Adding search criteria in <u>variable-level</u> - <u>Filter by variables</u>

	Clear search	Query															F	± -
E.g. next slide some categori	es of the	🔞 🕕 Individuz	AND -	i Cohort -	× AND	•	Gener	al popı	ulation	• ×	AND	•	i Bior	narkers	Imag	ing 🕶 🗙		
and "Cardiova (CV) related di variables"	scular isease	Lists view C	omparison table						NO [:] vari	TE ⁻ able	that <u>e de</u>	stu <u>scri</u>	dies ptio	mu <u>ns</u> t	st h o th	nave adde le catalog	d the ue and	
	O Imaging data	Variables 77 04	1 Datasets 1	161 Studie	s 26				the	<u>var</u>	iable	es h	ave	to t	<u>be c</u>	<u>lassified</u> i	nto the	2
	O Biosamples O Study identification	All Individual Show 100 ¢ ef	Harmonization ntries						that vari	it is able	s po es b	ssib y us	ole to sing	the	d th	nat study a /ariable cl	and its asses.	Next
Use 💧	Filter by Variables					Data	types	, sour	ces, a	nd sai	nples	availa	ble	le			Individual	
search	O General classification	Acronym	Name	Туре	Study design	-			Z	\$	E	æ	۲	ê	ი	Participants	Datasets	Variables
variable-	O CV rel. diseases variables	ATBC	ATBC Study	Individual	Cohort	~	~	~	~	-	-	~	-	~	~	29000	4	279
<u>level</u> properties	O Variable name & label	Brianza	Brianza MONICA Study	Individual	Cohort	~	~	~	~	2	-	~	÷	~	~	4932	6	751
		Constant 111	Caerobilly	Individual	Cohort													

Functionalities of the Search Tool (11/22) 2) Adding search criteria in <u>variable-level</u> - General classification (part of it)

Here selected are				Socio-demographic	and economic characteristics	S Select All		Lifestyle and behaviours	festyle and behaviours Select All Clear Selection				
"tobacco" from "li and behaviours"	ifestyle and	Click	:	Information about s	ocio-demographic and econo	omic characteristics.		Information about past	and current lifestyle, beł	aviours and	activities.		
"diseases of the circulatory syster (100-19)" from "dis	n seases"	Display r	esults	 Age/birthdate Marital/partner status Residence 	 Sex/gender Family and household structure Birthplace 	Twin Education Citizenship and	<	 Tobacco Nutrition Transportation Sexual behaviours 	 Alcohol Breastfeeding Personal hygiene Leisure activities 	Drugs Physic Sleep Techr	cal activity		
Diseases			Select All	Clear Selection	d 🗆 Language	immigrant status		and orientation Misbehaviour and 	Other and	device	2S		
Information about past and current disease as categorized in ICD-1 Certain infectious Neoplasms (C00- Diseases of and parasitic D48) blood and b				ICD-10. Ises of the d and blood-	 Other socio- demographic and economic characteristics 	retirement		criminality	unspecified lifestyl	1	▼ More		
diseases (A00-B99)	ű.		form	ing organs and		✓ More							
			certa invol	in disorders ving the	I reproductive health history	Select All		Perception of health, qu	ality of life, developmen	and functio	nal limitations Select All		
			(D50-	D89)	irth and current or past repro	oductive health history of		Information about perce	eption of general health,	quality of life	e, child		
 Endocrine, nutritional and metabolic diseases (E00-E90) 	Mental a behaviou disorder	nd ural s (F00-F99)	Disea nervo (G00-	ises of the ous system G99)	Contraception	Pregnancy, delivery and birth		development and declir	Quality of life	s.	opment		
 Diseases of the eye and adnexa (H00- H59) Diseases of the 	 Diseases and mas (H60-H99 Diseases 	of the ear toid process 5)	Disea circu (100-1	ises of the latory system 99)	al Other reproductive health-related information	© 2022 by <u>the</u>	<u>euC</u>	Limitations	devices	□ Other health and fu limita inforr	perception of n, quality of life inctional tion-related nation		

Functionalities of the Search Tool (12/22)2) Adding search criteria in <u>variable-level</u> - Cardiovascular related disease variables

Here selected is	Cardiovascular related d	Cardiovascular related diseases					
from "cardiovascular related diseases"	 Diabetes mellitus (E10-E14) 	 Disorders of lipoprotein metabolism and other lipidaemias 	 Hypertensive diseases (I10-I15) 				
	 Ischaemic heart diseases (I20-I25) 	(E78) Valve disorders (I34- I37)	Conduction disorders and cardiac arrythmias				
Click: Display results	Heart failure (I50)	 Diseases of the circulatory system falling into multiple 	(I44-I49) Cerebrovascular diseases (I60-I69)				

Functionalities of the Search Tool (13/22)

Results by studies when some study- and variable-level properties selected





Function Results	nalitie <u>by va</u>	es of the Search To ariables when som	ool (1 ie <u>stu</u>	5/22) dy- and	variable	-lev	<u>el</u> properti	es selecte	d
) Tobacco 👻 🔉) Individual 👻	OR • Ibiseases of the circulatory system × AND • Ibiseases of the circulatory system × AND •	(100-199) 🔻 🗙 General popul	OR • • Heart f	ailure (I50) ▼ ×	ing▼ ×			
Lists vie	w Comp	arison table							
Variat All In Show 2	oles 8 482 dividual Han	Datasets 147 Studies 23 List N monization s	view of Variab	variables s	selected	ssific	ations Previo	ous 1 2 3 4	5 425 Next
	Name	Label	Value type	Annotations	Туре	Study	Population	Data Collection Event	Dataset
	CIGS	MORGAM variable: "Do you smoke cigarettes now?"	Integer	Tobacco	Collected	KORA	KORA (Augsburg) Study Cohort 01 (Survey S1)	KORA S1 (Augsburg) Study Cohort 01 Baseline	KORA0101_MORGAM
	NUMCIGS	MORGAM variable: "On average how many cigarettes do you now smoke a day?" "	Integer	Tobacco	Collected	KORA	KORA (Augsburg) Study Cohort 01 (Survey S1)	KORA S1 (Augsburg) Study Cohort 01 Baseline	KORA0101_MORGAM
022 by <u>the euCa</u>	EVERCIG	MORGAM variable: "Did you ever smoke cigarettes regularly in the project	Integer	♥ Tobacco Link	Collected	KORA	KORA (Augsburg) Study Cohort 01 (Survey S1)	KORA S1 (Augsburg) Study Cohort 01 Baseline	KORA0101_MORGAM



⁻ unctio Results	nalitie <u>as co</u>	es of the Sea omparison ta	rch ble	Tool (17/22) of variable classes, by t	he data colle	ection ev	vents				
	Toba	idual ▼ × OR ▼ ③ Diseases o	f the circo	ulatory system (100-199) • × OR • • • Heart failure (150) • × AND • • • • • • • • • • • • • • • • • • •	\$∣Imaging ▼						
	Lists view	Comparison table			C	ata collec	tion event selected				
	Study All Individu	Dataset Ial Harmonization	To	filter the search results to includ	er the search results to include those rows that						
	Population	n/Data Collection Event (DCE)	hav	ving null cell ("full coverage").	Cardiovascular related diseases ×	Lifestyle and behaviours ×	Diseases ×				
	Study	Population		Data Collection Event	Heart failure (I50) ×	Tobacco ×	Diseases of the circulatory system (100-199) ×				
					278	1 213	7 269				
	KORA	KORA (Augsburg) Study Coho (Survey S1)	ort 01	KORA S1 (Augsburg) Study Cohort 01 Baseline 1984-10 to 1985-05	2	16	17				
2022 by <u>the</u>	euCanSHa	are Project		KORA S1 (Augsburg) Study Cohort 01 mortality and disease outcome follow-up 1984-10 to 2009-12	Null cells	0	27				
		KORA (Augsburg) Study Coho (Survey S2)	ort 02	KORA S2 (Augsburg) Study Cohort 02 Baseline 1989-10 to 1990-06	2	15	Link to this search				

.

C

Fund	tionalitie	es of the Search Tool (18/22)	
<u>Resi</u>	IIIS AS TU Tobacco • Individual •	I COVERAGE COMPARISO × OR • I Diseases of the circulatory system (100-199) • × AND • I Cohort • × AND • I General point	OR Image: Description of the second	s Imaging • × AND • • Acronym: • ×
(Lists view Comp Study Dataset All Individual Har	monization	Filtering "full coverage and "data collection ever	ge" selected Data Collection Event Full coverage Subdomains with Variables
		Cardiovascular related diseases ×	Lifestyle and behaviours ×	Diseases ×
	Study	Heart failure (150) ×	Tobacco ×	Diseases of the circulatory system (100-199) ×
		278	758	4 494
	KORA	10	67	313
	Catalonia	20	30	252
Null cells	DAN-MONICA	43	66	455
studies listed	ESTHER	2	12	108
	Estonia	8	15	117
	FINRISK	⁷⁷ © 2022 by <u>the euCanSHare Proje</u>	<u>ct</u> 96	<u>Link to this search</u>

Functionalities of the Search Tool (19/22) Removing the full coverage restrictions, results by studies i Heart failure (I50) ▼ 🗙 i Tobacco i Diseases of the circulatory system (100-199) 👻 🗙 OR -OR -i Individual i Cohort i) General population -Biomarkers | Imaging i Acronym:... AND -AND -AND -AND -Lists view Comparison table 2) Remove the restriction to the specific studies by clicking x. 1) Select list view and results Variables 5 252 Datasets 80 Studies 11 by studies. Individual Harmonization Show 100 \$ entries Previous Next Data types, sources, and samples available Individual Harmonization Study Participants Variables Name Type design Datasets Datasets Variables Acronym Individual Catalonia Catalonia MONICA Cohort 5505 4 282 Study DAN-DAN-MONICA Individual Cohort 7582 8 521 MONICA Study **ESTHER** ESTHER Study Individual Cohort 9949 2 120 Estonia Estonian Biobank Individual Cohort 210000 2 132 © 2022 by the euCanSHare Project Link to this search FINRISK **FINRISK Study** Individual Cohort < < < <</p> ✓ ✓ 75000 12 1.025

O Variable name & label

Here text "daily" is search to match the text given in the variable label because variables concerning daily smoking is of interest.

Name	Label
Variable name.	Variable label.
	daily







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Finding the harmonization potential across the studies

- The variable descriptions from different studies can be compared in the catalogue to find the possible definition of the harmonized variable.
- The variable descriptions of the catalogue includes
 - Variable definition, type and unit
 - Category values and labels for the categorical variables
 - In some cases, the number of available and missing values

Finding the harmonization potential (1/5) Viewing the variable description of the specific data collection event (1/2) Here presented is the variable description of the "MAXCIGS" collected in the baseline of the KORA S1 Survey. MAXCIGS Variable name MORGAM variable: "What is the highest average daily number of cigarettes you have ever smoked for as long as a year?" Variable label I "See the specific description of the variable in the MORGAM website. Possible broader description of the variable Classes in Overview Definition which the Possible category variable is Value type Integer Dataset names and labels KORA0101 MORGAM classified i.e. (MAXCIGS is Continuous Nature annotations Study KORA continuous variable, Participant Entity type Population KORA (Augsburg) Study Cohort 01 (Survey S1) and only missing Data Collection Event KORA S1 (Augsburg) Study Cohort 01 Baseline Categories categories are Label defined) Missing Name Annotations irrelevant if EVERCIG = 2 ~ 888 ~ insufficient data 999 Ouestionnaire Source Target Participant Annotations: "Questionnaire" = information was collected in a guestionnaire, "Participant" = information is about the study participant, "Tobacco" = information is about the consumption tobacco Lifestyle and Tobacco of in any form behaviours © 2022 by the euCanSHare Project

Finding the harmonization potential (2/5) Viewing the variable description of the specific data collection in the study (2/2)

Summary statistics of the variable show the availability information for the variable in the specific dataset (here MAXCIGS in KORA S1 Baseline), if the dummy data on the missingness are provided.



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Finding the harmonization potential across the studies

- On next slides, a simple example set of variables shows the ways that data catalogue can be used for finding:
 - harmonization potential across the studies/cohorts
 - common definition for the harmonized variable
- Small number of similar variables on high blood pressure diagnoses across studies are selected (selected from <u>this list</u>):
 - "HIBP" of KORA S1 and ESTHER Baselines (harmonized MORGAM variable)
 - "hcbphigh" of CAHHM CPTP cohort Enrollment
 - "s0_hypert" of SHIP-START-0
 - variables "6150_0_0", "6150_0_1", "6150_0_2", and "6150_0_3" of UK

Biobank Recruitment

Finding the harmonization potential (3/5) Downloading the results as a CSV file

		0		Collapse
1) Tick the desired	Query		R	+
2) Click "Download" 3) Open CSV	Lists view Comparison table			2)
	Variables 14 Datasets 14 Studies 5 All Individual Harmonization			
	Show 100 ¢ entries	Previou	s 1	Next

CSV file (comma "," separated table of the search results) is downloaded. The file can be opened using Excel.

			Value					Collection	
	Name	Label	type	Annotations	Туре	Study	Population	Event	Dataset
1)	HIBP	MORGAM variable: "Have you ever been told by a doctor or other health worker that you have high blood pressure?"	Integer	Diseases of the circulatory system (100-199)	Collected	KORA	KORA (Augsburg Study Cohort 01 (Survey S1)) KORA S1 (Augsburg) Study Cohort Baseline	KORA0101_MORGAM
	HIBP	 MORGAM variable: "Have you ever been told by a doctor or other 	Integer	Diseases of the circulatory system (100-199)	Collected	KORA	KORA (Augsburg Study Cohort 02 (Survey S2)) KORA S2 (Augsburg) Study Cohort	KORA0201_MORGAM

Finding the harmonization potential (4/5) Opening the results and comparing variables

			File Home Insert	Page La	ayout	Formulas Data	Review	View Help		Comments	🖻 Share
1 2 1	l) In Exe 2) In " D Fo Colu	cel, select column A ata" tab click "Text ms" and follow the	Get Data ~ 🗐 Data Oueries & Conne	ctions	Stocks	Currencies	$\begin{array}{c} A \downarrow \\ Z \downarrow \\ A \downarrow \\ A \downarrow \\ Sort \\ Sort \\ \end{array}$	Filter	Text to Columns Solution A	What-If Forecast Analysis ~ Sheet	回 Outline ~
C	converti	ng steps (delimeted	A1 · · · · · ·	/ fr	Name	"Label" "Unit" "T	vpe of value"	"Categories" "T	vpe" "Study" "Popula	ation" "DCF" "Dat:	aset" 💌
k	by comr	na ",") ->	1) A B C		D	E F	G	H I	J K	L	M
	s) Spille		1 Name,"Label","Unit","Type 2 HIBP,"""MORGAM variable	e of valu e: Have	ie","Categ you ever l	ories","Type","Stu been told by a doo	udy","Populatio	on","DCE","Data ealth worker th	aset" at you have high blo	od pressure?""","	","Integer",'
		3)	 3 hcbphigh, 'Have you ever b 4 MORGAM variable: HIBP,"' 5 s0 hypert "Ist bei Ibnen ie 	een tol ""Have	d by a hea you ever l	alth care profession been told by a doo	onal that your ctor or other h	blood pressure ealth worker th Blutdruck festag	was high (excluding hat you have high blo estellt worden?" "" "	during pregnancy) od pressure?"""," nteger" "1: ia 2:)??","","Tex ","Integer",'
	А	В		С	D		E			doctor","","Texti	ual","1: Hea
1	Name	Label		Unit	Type of	Categories			Тур		
-		MORGAM variable: "Have you ev	ver been told by a doctor or			1 12 1	0		Note that	using "Text	t To
2	нвр	other health worker that you have	ve nigh blood pressure?"		Integer	1: yes 2: no	9: Insufficier	it data	Colums"	for Categor	ries
		Have you ever been told by a he	alth care professional that						delimited	by "l" (copy	first
_	111111111	your blood pressure was high (e	xcluding during		-						niot violet of
3	hcbphigh	pregnancy)?			lextual				COIUMN E	to the most	i right of
,	LUDD	MORGANI variable: "Have you ev	ver been told by a doctor or			1	0. :		the table),	classes ca	in be
4	нвр	other health worker that you have	ve nigh blood pressure?		Integer	1: yes 2: no	9: Insufficier	it data	separated	further into)
5	s0_hypert	Have you ever been diagnosed with doctor?	high blood pressure by a		Intege	1: yes 2: no 8	3: don't know	9: refused to	a different c	ells.	
		Touchscreen Health and medica	al history Medical			1: Heart attack 2	: Angina 3: Stro	oke 4: High bloc	od pressure		
6	6150_0_0	conditions: Vascular heart proble	ems diagnosed by doctor		Textual	-7: None of the a	bove -3: Prefe	er not to answer	Col		
7	K	All variables 6150_0_0 - 6150_0_	_3 have the same description	n: ACE	touchscr	een question: H	as a doctor e	ever told you			

that you have had any of the following conditions? (You can select more than one answer)

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Finding the harmonization potential (5/5) Comparing variables across studies

The definition of <u>this</u> <u>CAHMM variable</u> needs more investigation as the category values are not given in the catalogue. Here it is assumed that yes & no categories are included.

The definition of the UKBB variable needs more investigation, but here it is assumed that this 4th variable indicates the answers to the "4 - High blood pressure" option in the questionnaire.

5	/	A	В	C	D	K	L	М	N
	1	Name	Label	Unit	Type of			Categories	
•	2	HIBP	MORGAM variable: "Have you ever been told by a doctor or other health worker that you have high blood pressure?"		Integer	1: yes	2: no	9: insufficient data	
	>	hcbphigh	Have you ever been told by a health care professional that your blood pressure was high (excluding during pregnancy)?		Textual	?: yes?	?: no?		
	4	HIBP	MORGAM variable: "Have you ever been told by a doctor or other health worker that you have high blood pressure?"		Integer	1: yes	2: no	9: insufficient data	
	5	s0_hypert	Have you ever been diagnosed with high blood pressure by a doctor?		Integer	1: yes	2: no	8: Don't know	9: Refused
	6	6150_0_3	Touchscreen Health and medical history Medical conditions: 4: high blood pressure diagnosed by doctor		Textual	?: yes?	?: no?		-3: Prefer not to answer

"Has a doctor ever told you that you have had any of the following conditions?" (You can select more than one answer).

<u>A possible definition for a harmonized variable:</u>
"Have you ever been told by a doctor or other health professional
that you have high blood pressure?"
1: yes
2: no
9: missing

euCanSHare Example search

Question: 1) Which cohort studies have collected variables on <u>all these</u> <u>categories</u>: cerebrovascular diseases, alcohol, medication/supplement intake, and quality of life?

- 2) What are the names of the quality of life variables in these studies?
- **Solution:** Filtering by both studies and variables is needed and the results must be shown as the comparison table for further filtering off the null cells of the variable categories.

Solution for example, step 1/5 – Start a new search: <u>https://mica.eucanshare.bsc.es/search#</u> Click "Individual" and go to...

Display results

Select All

Disorders of

(E78)

137)

lipoprotein metabolism and other lipidaemias

□ Valve disorders (I34-

Diseases of the

categories

circulatory system

falling into multiple

Clear Se

diseases (I10-I15)

□ Hypertensive

□ Conduction

(144-149)

disorders and

Cerebrovascular

diseases (160-169)

cardiac arrythmias



Solutio	Solution for example, step 2/5 - Go to "general classification"								
 Filter by Variables General classification 		Find a of life'	Find and select "alcohol", "medication and supplement intake" and "quality of life"						
Lifestyle and behaviour	Select All C	Clear Selection	Medication and supp	ements	Select All Clear Selection				
Information about past and current lifestyle, behaviours and activi Tobacco Alcohol Drugs Nutrition Breastfeeding Physical activities Transportation Personal hygiene Sleep Sexual behaviours Leisure activities Technologi and orientation Misbehaviour and Other and criminality Unspecified Information about percention			ctivities. al activity blogical ality of life, development	Information about me including drugs and s or prevent diseases o Medication and supplement intake and functional limitations Select All Clear Selection	oout medication (whether prescribed or over the counter), is and supplements (e.g. vitamins, plant extracts) used to treat eases or to alleviate symptoms of diseases. and Posology and Other and protocol of unspecified administration pharmacological interventions				
© 2022 by <u>the euC</u>	euCanSHare Project	development and declin Perception of healt Functional limitations	 Quality of life Use of assistive devices 	 Life course development Other perception of health, quality of life and functional limitation-related information 	Then click: Display results				

Solution for example, step 3/5 - Check the query



Solution for example, step 4/5 - See the full coverage results

	Cerebrovascular diseases (160-169) 🕶 Quality of life 👻 🗙 ndividual 👻 🗶 AND 👻 🚯 Co	× OR • • Alco	nol • × OR • • • • • • • • • • • • • • • • • •	× OR -
Lists view	Comparison table	<u>1 study, U</u>	<u>(BB</u> , has variables in all these classes	3.
Study All Indiv	Dataset vidual Harmonization		D.	ata Collection Event Filter
	Cardiovascular related diseases ×	Lifestyle and behaviours ×	Perception of health, quality of life, development and functional limitations ×	Medication and supplements ×
Study	Cerebrovascular diseases (I60-I69) ×	Alcohol ×	Quality of life ×	Medication and supplement intake ×
	20	109	7 Click to see the list of quality o	577 577
ИКВВ	20	109	© 2022 by the euCanSHare Project	y 677

Solution for example, step 5/5 - See the list of variables



euCanSHare Answers to the example search

1) Which cohort studies have collected variables on <u>all these categories</u>: cerebrovascular diseases, alcohol, medication/supplement intake, and quality of life?

Answer: UK Biobank (UKBB)

Link to this answer

2) What are the names of the quality of life variables in these studies?

Answer: UKBB variable names are 26413_0_0, 26420_0_0, 26430_0_0, 20458_1_0, 20459_1_0, 120070_1_0, and 120097_1_0.

Link to this answer

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