

HBM4EU project

Documents of WP7 to support the alignment within HBM4EU

(Study Protocol, Questionnaires, Communication Material, etc.)

Where to find – how to adapt

Ulrike Fiddicke



2nd HBM4EU Training School 2018 Workshop for alignment of studies

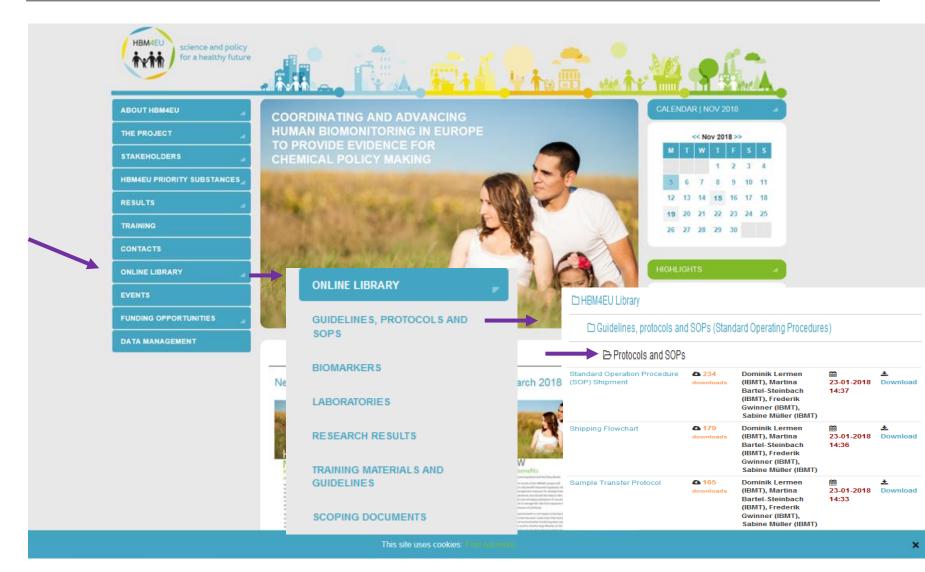
Content

- Where to find documents of WP7
- Why and how to use and adapt
- What we are aiming at the characteristics of an ideal HBM4EU study

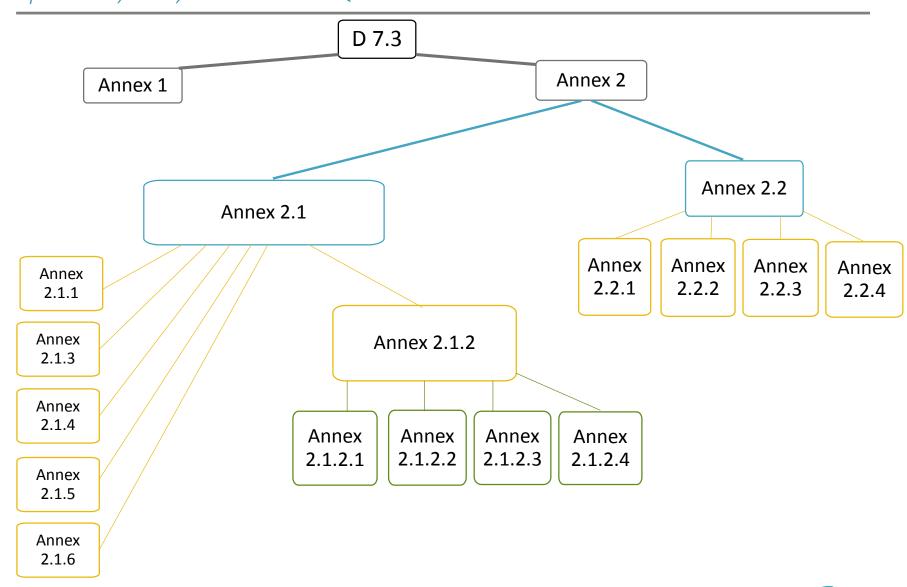
Where to find documents on the HBM4EU webpage www.hbm4eu.eu



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Structure of D7.3: 1st priorisation report on survey design: Study protocols, SOPs, Guidelines and Questionnaires



Annex 1: Concept for a Study Protocol D 7.3 Annex 2: Fieldwork Manual Template Annex 2.1: Documents for Interviews \top \uparrow \uparrow \uparrow \uparrow Annex 2.1.1: Annex 2.1.2: Interviewer Manual Basic Questionnaire Annex Annex Annex 2.1.3: 2.1.2.1: 2.1.2.2: Matrix specific Summary **Definitions** Questionnaire table of of major **ISCED** groups, Annex 2.1.4: 2011

codes

and

criteria

sub-major groups, ISCO 2008

Annex 2.1.2.3: Food serving sizes gallery D7.3 Structure

Annex 2.2: SOPs

Annex 2.2.1: **SOP 1-**Selection of **Participants** and Recruitment Annex 2.2.2: SOP 2-Quality Assurance for Recruitment and **Fieldwork**

Annex 2.2.3: **SOP 3 – Procedure** for obtaining human samples

Also in this context ("Annex 2.2.4 -SOP 4"): SOP on sample Exchange on a pan-European level to be used in the HBM4EU initiative (= D7.2, Annex 1)

Annex 2.1.5: Concept for a non-responder questionnaire

Interviewer

Manual to the

Matrix specific

Questionnaire

Annex 2.1.2.4: Statistical classification of economic activities (NACE) (Type of industry/workplace)

Updates for questionnaires will only be provided in the **online library**

Annex 2.1.6: Satisfaction questionnaire

2nd HBM4EU Training School, Nijmegen, November 22, 2018

D 7.3 Annex 2.1.1: Basic Questionnaire

- > Development based on:
 - existing questionnaires of HBM4EU partners and
 - questionnaires of international HBM studies
- Questions include questions on
 1st priority substances (CGLs input!) and on relevant
 - sociodemographic characteristics
 - exposures to a range of compounds in the residential environment
 - dietary habits
 - lifestyles
 - occupational exposures
 - health status

7.3 Task Leader: Marina Lacasaña:

marina.lacasana.easp@juntadeandalucia.es

- New: end of 2018 (online library):
- Separate substance specific questionnaires for 1st and 2nd priority substances
- and age specific questionnaires (adults, adolescents, children)



D 7.3 Annex 2.1.1: Basic Questionnaire

Designed for paper+pencil Face-to-Face interview for adults

If other applications are planned adaptations are necessary.

BASIC QUESTIONNAIRE FOR

1st PRIORITY SUBSTANCES

QUESTIONNAIRE INFORMATION

ID (PARTICIPANT)

3. Don't know

ID (INTERVIEWER)

11. Does your home have at least one window facing a street with constant traffic?

2. No

Most questions used are closed questions:

- yes/no/don`t know or very short answer
- easy and quick to answer
- provide facts
- easy to analyse

Some are open questions (specify...):

- need a longer answer and ask
 the respondent to think and reflect
- give opinions and meanings
- provide more information
- more difficult to analyse

7. What is the main source of your ...?

1. Yes

П

| 1. drinking water? | | | | 2. cooking water? | | | |
|-------------------------|--|--------------|--|-------------------------|--|--------------|--|
| Public network | | Private well | | Public network | | Private well | |
| Bottled water (plastic) | | Don't know | | Bottled water (plastic) | | Don't know | |
| Bottled water (glass) | | Others | | Bottled water (glass) | | Others | |
| Specify | | | | Specify | | | |

5. How often have you eaten dishes from communal catering, such as from a canteen, dining hall or cafeteria in the last 4 weeks?

Answer categories are disjoint

| (nearly) never | 1 per month | 2-3 per month | 1 per week | 2-3 per week | 4-6 per week | 1 per day | >1 per day | Don't know |
|-------------------|----------------|------------------|---------------|-----------------|-----------------|-----------|---------------|---------------|
| | | | | | | | | |

SOCIO-DEMOGRAPHIC SECTION

| QUESTIONS | JUSTIFICATION | INFORMATION FOR INTERVIEWERS |
|--|---|--|
| 1. What is your birth date? | This question is essential to identify potential differences in human exposures, as well as susceptibility associated with the age. Potential determinant of exposure to phthalates, BPA, PFASs, FR, Cd, Cr, PAHs and anilines (1st priority substances). | Month and year of birth will be asked here. |
| 2. Where were you, your parents and grandparents born? | It is necessary to collect information on participants' country of origin, as it could lead to different exposure levels to priority substances (due to genetic characteristics, lifestyle or dietary habits, among others). | In this question, information on countries where the participants and their direct family members (parents and grandparents) were born will be asked for. |
| Which language(s) do you speak at home | Asking for languages spoken at home we can collect additional information on the origin of the participant and also on cultural factors. | Please, indicate the national language (or languages, for countries with several official languages) spoken at home. If other language(s) different from national languages is (are) spoken at home, specify which one(s). |
| 4. How long have you been living in? Please indicate the number of years (or months if less than 1 year) | This question is intended to gather information on internal and external migrations, since it could be associated with changes in chemical exposure levels. | According to geographical characteristics of each country, please ask for the length of time living in this country/region/province/municipality/current address. Select "Don't know" if the interviewee does not remember that time. |
| 5. If you have lived in other households in the past 10 years, complete the following information for each address (starting with the current address and going back to complete the temporal frame) | This question provides information on residential history, which helps to identify the potential influence of the place of residence on the results of the study. | Please, provide complete information on this question. If address is not remembered, indicate at least the municipality or postal code. Regarding the period of time living in each place, try to collect information on how many months and years, if possible. |

Develop new questionnaires in the frame of HBM4EU

- Base new questionnaires on the HBM4EU questionnaires
- Keep changes for translation /adaptation to the country as small as possible to safeguard harmonisation!

Support: WP8 help desk via HBM4EU homepage:

https://www.hbm4eu.eu/private/targeted-field-work-wp-8/or email to: helpdesk-HBM4EU@phe.gov.uk

- → Questions are forwarded to Task 7.3 /Task 10.3 to discuss changes and finally safeguard a harmonized data analysis
- → New questionnaires shall be approved by Task 7.3/Task 10.3



Translation and adaption of questionnaires

- > Two independent careful translations
 - 1) Translation expert
 - → supporting documents: Interviewer Manual
 - 2) Scientific (HBM) expert
 - > control if translation matches with intensions
 - → adaptations to national needs
- Please document differences to the recommended HBM4EU questionnaires and ask for their approval!
- Run at least 5 test interviews



D7.3 Annexes 2.1.3 – 2.1.6: Other questionnaires

1) Annex 2.1.3 + 2.1.4

Matrix-specific questionnaire (1st prio subst.)

+ specific Interviewer Manual to collect information on 24-72 h before sample taking



2) Annex 2.1.5

Concept for a Non-responder questionnaire

to collect characteristics of invitees who decided not to participate needed to calculate selection biases



3) Annex 2.1.6

Satisfaction questionnaire

to collect information on acceptance of single instruments to learn for a follow-up



D 7.2: Strategy and SOPs for human sample exchange

Templates provided by Task 7.4

Task Leader: Dominik Lermen: dominik.lermen@ibmt.fraunhofer.de

See presentation on transport of samples

D7.4: 1st material for communication to participants

Templates from Task 7.5 Communication to Participants

Task Leader: Andromachi Katsonouri: akatsonouri@sgl.moh.gov.cy

- 1. Invitation letter
- 2. Information leaflet, including info on study, role of participants, chemicals
- 3. Reply cards
- 4. Reminder letter
- 5. Thank you letter (for persons interested to join the study, but are ineligible)
- 6. Fact sheets on chemicals
- 7. Appointment letter
- 8. Pre-visit letter
- 9. Certificate of informed consent
- 10. Withdrawal form
- 11. Thank you letter
- 12. Report of personal results



D7.4: 1st material for communication to participants

Templates from Task 7.5 for occupational study:

Exposure of workers to hexavalent chromium and other hazardous chemicals

- 1. Leaflet with information for workers
- 2. Consent form for participating workers
- 3. Factsheet "Working safely with chromium"
- 4. Leaflet with information for employers
- 5. Consent form for employers

Characteristics of an ideal HBM4EU study

150 f

Study population



| 6-11 y | 150 m | ≡ SES / | △ ≥5y |
|---------|-------|-----------|--------------|
| 12-19 y | + | levels of | 4 Seasons |

urbanisation

sons (

Sampling frame



preferably population registries, or randomly selected schools, etc. Preferably national representative

Study instruments





First morning urine/blood (biobank-80°C)

Additional measures: matrix-specific ques.; non-responder q. follow SOPs, perform quality control

Communication: to safeguard high response rate; insentives?

20-39_V

Analytics: in labs that passed HBM4EU QA

Sharing of data and samples \rightarrow Pseudonymisation \rightarrow GDPR

Results: individual results to calculate European Reference Values → informed consent!!

Quality assurance and control methods for fieldwork

- National study protocol
 - → describes the study in detail (background information for all)
- Fieldwork Manual
 - → for training of the staff and every-day-use (repeated training!!)
 - →includes SOPs for all essential procedures
- Log-books for field staff
 - → to transmit experiences collected during single participant visits, to learn from each other
- Check lists
 - → to prepare home visits, listing all material for one participant sour
- Regular field visits of internal or external auditors
 - →according to check lists for internal and external field visits







Thank you for your attention!

ulrike.fiddicke@uba.de

Speaker's information

Ulrike Fiddicke has been working for the German Environment Agency, Berlin, Germany, since 2010. She already worked within COPHES and DEMOCOPHES in the area of study design and fieldwork. She received training in nutrition science and public health. In HBM4EU she is responsible for study design and fieldwork preparation, leads WP7 and Task 7.2.



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