Important information before using this questionnaire

The AGORA questionnaire was designed by a team of reproductive epidemiologists and clinicians for use among participants in the AGORA data- and biobank. The questions are aimed at mothers of children with a birth defect or a healthy child living in The Netherlands and may not be usable in different settings. *Therefore, (questions from) the AGORA questionnaire should only be used after consultation with the AGORA study team (loes.vanderzanden@radboudumc.nl).*

When using the AGORA questionnaire, either fully or in part, please include a reference to the manuscript describing the AGORA data- and biobank (van Rooij *et al.* (2016), PMID: 27150573 DOI: https://doi.org/10.1002/bdra.23512).

The questionnaire shown below is the translation of the original AGORA questionnaire (in Dutch). Based on the feedback provided by participants and concerns about the validity and/or usefulness of some data that were gathered, the 2022 version of the AGORA questionnaire contains several important updates. Please contact the AGORA study team for more information.

Mother



AGORA

Aetiologic research into Genetic and Occupational / environmental Risk factors for Anomalies in children

Radboud University Medical Centre, the Netherlands

If you do not want to or are not able to fill in the questionnaire

If you do not want to or are not able to fill in the questionnaire, would you please give the reason for this?

| I am not the biological mother of the child |
|---|
| I have problems understanding the English of this questionnaire |
| I do not have the time to fill in the questionnaire |
| I am not in the mood to fill in the questionnaire |
| I think this questionnaire is useless |
| I never participate in research |
| I find the questions too personal |
| Other reasons: |
| |
| |
| |
| |
| |
| |
| |

Would you please send the questionnaire back in the enclosed envelope? By doing this, we would not approach you again for this research. Thank you in advance.

About this questionnaire

This questionnaire consists of 7 parts. There are questions about you and your relatives, general questions about your pregnancy(ies) and questions about your health, life style, leisure time, living environment, your occupation and about your diet. It will take you about 40 minutes to fill in this questionnaire.

The majority of questions concern the pregnancy from which your child that participates in this study was born. A lot of questions concern your life style, diet, occupation and hobbies just before and during this pregnancy. It does <u>not</u> automatically mean that all these things are involved in the aetiology of the malformation of your child. That is exactly what we want to study with this questionnaire.

You might find some events hard to remember. We still want you to fill in this questionnaire as good as possible. Maybe you want to use an old calendar or diary. You could also inquire of your gynaecologist. When you are really not able to answer a question, please note a question mark.

In this questionnaire you will find different types of questions:

- questions at which you have to <u>put a cross</u> in one or more boxes where appropriate
- questions at which you have to write down your answer on the dotted line
- questions at which you have to put a cross in a box and then give an explanation on the dotted line

An example:

| Have any of your relatives ever been diagnosed with one or more of the following congenital |
|---|
| malformations? |
| a. Congenital heart defect |

iita]

yes \rightarrow who (father, mother, brothers or sisters) and what type of heart defect? 1 brother, an opening between both heart chambers



For some questions you have to fill in a period, such as the period in which you used medications. For <u>example</u>: because of blood anaemia you used iron supplements <u>starting from week 14 of pregnancy</u>. You should fill in the answer as follows:

| Dic | Did you use iron supplements <u>before</u> or <u>during</u> pregnancy? | | | | |
|-----|--|---|--|--|--|
| X | yes | → | in the 3 months before to pregnancy in pregnancy months 1-2 (week 0-9) in pregnancy months 3-4 (week 10-18) in pregnancy months 5-9 (week 19-42) name: <i>Ferrous fumarate</i> | | |
| | no | | | | |

* Watch the arrows (\rightarrow) behind some answers. After an arrow you will find an explanation or an additional question. An exclamation mark (!) indicates important information.

* When you make a mistake, put a cross in the right box and circle the correct answer. If you want to clarify something, you can write it down next to the question. On the last page of the questionnaire there is additional space to write things down.

Good luck with the questionnaire!

1. Questions about you and your relatives

| 1. | What is your date of birth? Image: Constraint of the second s |
|----|---|
| 2. | What is your country of birth? |
| 3. | a. What is the ethnic background of your mother? (if more than one option is true, put a cross in the box 'other' and give an explanation) Dutch European (other than Dutch) Turkish Moroccan Surinam, Antillean, African Asian other: |
| 3. | b. What is the ethnic background of your father? (if more than one option is true, put a cross in the box 'other' and give an explanation) Dutch European (other than Dutch) Turkish Moroccan Surinam, Antillean, African Asian other: |
| 4. | What is the highest level of education you have completed? no education completed primary school secondary school lower vocational education intermediate vocational education higher vocational education university other: |

| 5. | a. Have you ever been diagnosed with one or more <u>congenital</u> malformations? |
|----|--|
| | \Box yes \rightarrow \Box heart defect |
| | neural tube defect |
| | cleft lip and/or cleft palate (orofacial cleft) |
| | kidney- or bladder malformation |
| | digestive tract malformations (such as oesophagus, intestine, anus) |
| | other |
| | no |
| 5. | b. Please specify these congenital malformation(s): |
| | |
| | |
| 6. | Have you ever been diagnosed with any form of cancer? |
| | \square yes \rightarrow what form and when? |
| | no |
| 7. | Have you ever been diagnosed with fertility problems? |
| | yes |
| | \square no \rightarrow skip to question 9 |
| 8. | What is the (probable) cause of these fertility problems? |
| | the cause is: |
| | unknown cause |
| 9. | Are you and the father of your child (participating in this study) relatives? yes, the family relation is: no |

The next question concerns congenital malformations occurring in your close relatives. With <u>close relatives</u> we mean your biological father, mother, brothers and sisters, but not your children. Please write down which relative has the congenital malformation and specify the malformation on the dotted lines.

| 10. | Have any of your relatives ever been diagnosed with one or more of the following <u>congenital</u> malformations? | | | | | | | |
|-----|---|--|--|--|--|--|--|--|
| | a. Congeni | a. Congenital heart defect | | | | | | |
| | | yes \rightarrow who (father, mother, brothers or sisters) and what type of heart defect? | | | | | | |
| | | no unknown | | | | | | |
| | b. Neural t | ube defect | | | | | | |
| | | yes \rightarrow who (father, mother, brothers or sisters) and what type of neural tube defect? | | | | | | |
| | | no unknown | | | | | | |
| | c. Cleft lip | and/or cleft palate (orofacial cleft) | | | | | | |
| | | yes \rightarrow who (father, mother, brothers or sisters) and what type of orofacial cleft? | | | | | | |
| | | no unknown | | | | | | |
| | d. Congenital kidney or bladder malformation | | | | | | | |
| | | yes \rightarrow who (father, mother, brothers or sisters) and what type of kidney or bladder | | | | | | |
| | | defect? | | | | | | |
| | | no unknown | | | | | | |
| | e. Congenital digestive tract malformations (such as oesophagus, intestine, anus) | | | | | | | |
| | | yes \rightarrow who (father, mother, brothers or sisters) and what type of malformation? | | | | | | |
| | | no unknown | | | | | | |
| | f. Cryptorchidism (testicle(s) not descended into the scrotum before the age of 1 year) | | | | | | | |
| | | yes $\rightarrow \underline{who}$ (father or brothers)? | | | | | | |
| | | no unknown | | | | | | |

| | g. Hypospadias (an abnormally placed urethral opening in the penis) | | | |
|-----|---|--------|--------------|--|
| | $ yes \rightarrow \underline{who} \text{ (father or brothers)?} $ | | | |
| | [| | no unknoʻ | wn |
| | h. Ano | ther c | ongeni | ital malformation |
| | [| | yes | \rightarrow who (father, mother, brothers or sisters) and what type of malformation? |
| | | | | |
| | | | | |
| | [| | no unkno | wn |
| 11. | a. Have | e any | of you | r relatives ever been diagnosed with cancer? |
| | [| | yes | \rightarrow <u>who</u> (father, mother, brothers or sisters) and <u>what type</u> of cancer? |
| | | | | |
| | | | | \rightarrow At what age was the cancer diagnosed? |
| | | | | |
| | Г | _ | no | |
| | [| | Unkno | wn |
| 11. | b. Has | one o | f your | children ever been diagnosed with cancer? |
| | [| | yes | \rightarrow <u>who</u> (son or daughter) and <u>what type</u> of cancer? |
| | | | | |
| | | | | \rightarrow At what age was the cancer diagnosed? |
| | | | | |
| | | | | |
| | [| | no | |

2. Questions about your pregnancy

| ! | The next questions concern the pregnancy from which your <u>child that participates in this study</u> was born. |
|-----|--|
| 12. | What is your child's date of birth? |
| 13. | day month year What is the gender of your child? Boy Girl |
| 14. | What is your child's birth weight? gram |
| 15. | How many weeks and days did your pregnancy last? |
| 16. | Is your child one of twins? yes, a twin yes, a triplet yes, a multiplet consisting of no \rightarrow skip to question 18a |
| 17. | Is this a monozygotic or dizygotic twin? monozygotic dizygotic (multizygotic) unknown |
| 18. | a. Has your child been diagnosed with one or more <u>congenital</u> malformations or a syndrome? |
| | yes → heart defect neural tube defect cleft lip and/or cleft palate (orofacial cleft) kidney- or bladder malformation cryptorchidism (testicle(s) not descended into the scrotum before the age of 1) hypospadias (an abnormally placed urethral opening in the penis) digestive tract malformations (such as oesophagus, intestine, anus) syndrome (e.g.: Down, Li-Fraumeni, Beckwith-Wiedemann, Denys-Drash) other |
| | \square no \rightarrow skip to question 19 |

18b. b. Please specify these congenital malformation(s):

>

- 19. Was this pregnancy an unexpected pregnancy?
 - yes \rightarrow skip to question 22

| | no |
|--|----|
|--|----|

20. When you tried to get pregnant, did you get pregnant in the first month?

| yes | |
|-----|--|
| | |

- \rightarrow skip to question 22 🗌 no
- 21. How many months did it take you to get pregnant? (Start counting from the moment you stopped using contraceptives or you tried to get pregnant on purpose)

months

- 22. Did you conceive naturally or did you and/or your partner get a medical treatment for it?
 - \square naturally \rightarrow skip to question 25
 - with medical treatment
- 23. What type of medical treatment(s) did you and/or your partner get? (more answers are possible)
 - □ treatment with hormones or ovulation stimulants
 - □ IVF (in vitro fertilization)
 - [] ICSI (Intracytoplasmic sperm injection: IVF in which a sperm cell is injected into an egg cell)
 - Al or IUI (artificial insemination or intrauterine insemination: sperm cells are artificially brought into the vagina or uterine)
 - AID (artificial insemination with sperm of a donor)
 - other treatment:
- 24. With which of these treatments did you get pregnant in the end?
 - none, because this pregnancy was nevertheless originated naturally
- 25. Did you use oral contraception/birth control pills in the year before you got pregnant?
 - yes
 - no 🗌

26. Did you use other hormonal methods of contraception in the year <u>before</u> you got pregnant? (*E.g. hormonal intrauterine device, contraceptive injection*)

| 🗌 yes | \rightarrow which hormonal contraception? | |
|-------|---|--|
| 🗌 no | | |

- 27. When did you stop using oral contraception of other contraception with hormones?
 - more than 3 months before you got pregnant
 - between 3 months before and the date of conception
 - □ after conception, in pregnancy week:
 - □ I did not use oral contraception or other contraceptives with hormones

28. Pregnancy history

The next questions imply all your pregnancies, including the pregnancy of the child that participates in this study. Please answer questions a to h for all of your pregnancies, starting with your first pregnancy (also look at the next page). With more than 5 pregnancies, please continue at the last page of this questionnaire.

| | 1 st pregnancy | 2 nd pregnancy |
|---|---|---|
| a. Was the outcome of your (1 st /2 nd /etc.) pregnancy a live birth, stillbirth, a miscarriage or an abortion? | live birth stillbirth miscarriage abortion | live birth stillbirth miscarriage abortion |
| b. How many weeks and days did your pregnancy last? | weeks days | weeks days |

The next questions only concern the live born and stillborn children:

| c. What was the date of birth? | day month year | day month year |
|--|--|--|
| d. What was the birth weight? | gram | gram |
| e. What was the sex of the child? | ☐ boy ☐ girl | ☐ boy ☐ girl |
| f. Did or does this child have a congenital malformation? If yes, which one? | yes → which one? | yes → which one? |
| g. Does this child have the same father as the child that participates in this study? | yes no this child participates in this study | yes no this child participates in this study |

For stillborn children:

| h. What was the cause of death? | |
|---------------------------------|------|
| | |
| | |

Continue with other pregnancies:

| 3 rd pregnancy | 4 th pregnancy | 5 th pregnancy |
|---------------------------------|---------------------------------|---------------------------------|
| ☐ live birth ☐ stillbirth | ☐ live birth ☐ stillbirth | ☐ live birth ☐ stillbirth |
| <pre>miscarriage abortion</pre> | <pre>miscarriage abortion</pre> | <pre>miscarriage abortion</pre> |
| weeks days | weeks days | weeks days |

The next questions only concern the live born and stillborn children:

| day month year | day month year | day month year |
|--|--|--|
| gram | gram | gram |
| ☐ boy ☐ girl | ☐ boy ☐ girl | ☐ boy ☐ girl |
| □ yes → which one? □ yes → which one? | | yes → which one? |
| yes no this child participates in this study | yes no this child participates in this study | yes no this child participates in this study |

For stillborn children:

| | |
|------|--|
| | |
| | |

3. Questions about your health before and during pregnancy

We continue with questions about the period <u>before</u> and <u>during</u> the pregnancy of your child that participates in this study. With the period <u>before</u> pregnancy we mean <u>3 months</u> before conception: this period started in most cases <u>a year</u> before the birth of your child.

If you are asked to fill in the weeks of pregnancy, please start counting from the first day of your last menstrual period (or the number of weeks your gynaecologist is working with).

| 29. | What was your weight and length in the 3 months before you got pregnant? weight: kilogram kilogram length: |
|----------------|--|
| 30. | Did you have a chronic disease in the 3 months <u>before</u> you got pregnant or <u>during</u> pregnancy? (E.g. epilepsy, asthma, thyroid disease or diabetes, but <u>not</u> a disease that was a consequence of your pregnancy) \Box yes \rightarrow what chronic disease? |
| | |
| | no |
| 31. | Did you experience an inflammation of the bladder or the kidney <u>during</u> pregnancy? |
| • • • | |
| | yes → in pregnancy week until until |
| | |
| 32. | Did you have a heavy cold <u>during</u> pregnancy? |
| 52. | |
| | yes → in pregnancy week until until |
| | |
| 33. | Did you have an infection during pregnancy? (such as influenza, rubella or jaundice)? |
| | \neg yes \rightarrow what infection? |
| | |
| | → in pregnancy week until until |
| | |
| 34. | Did you have a fever with a temperature above 38° C during pregnancy? |
| J . | |
| | \Box yes → what was the cause of this fever? |
| | \rightarrow in pregnancy week until |
| | → number of days fever? |
| | |
| | |

35. Did you get a vaccination <u>during</u> pregnancy? (E.g. for polio, tetanus, typhus, hepatitis A of B)

| 🗌 yes | ightarrow what type of vaccine? | ••••• |
|-------|----------------------------------|-----------|
| | \rightarrow in pregnancy week: | |
| 🗌 no | | |

36. Did you have any of the following complications or illnesses <u>during</u> pregnancy? In which week of the pregnancy did you experience these complications? (*More answers are possible*)

| Complication or illness: | | Pregna | ancy wee | eks: | |
|---|---------------|--------|----------|------------|--|
| <pre>extreme nausea (hyperemesis)</pre> | \rightarrow | week | | until | |
| high blood pressure | \rightarrow | week | | until | |
| preeclampsia or toxaemia | \rightarrow | week | | until | |
| gestational diabetes | \rightarrow | week | | until | |
| thyroid problems | \rightarrow | week | | until | |
| pelvic problems | \rightarrow | week | | until | |
| 🗌 anaemia | \rightarrow | week | |] until | |
| vaginal bleeding | \rightarrow | week | | until | |
| other complications or illnesses: | | | | 1 | |
| | \rightarrow | week | | until | |
| | ÷ | week | | until | |
| no, I did not have any complications or illne | esses | | | | |

37. Were you admitted to a hospital <u>during</u> pregnancy?(We do <u>not</u> mean admittance because of the delivery of your baby)

| 🗌 yes | \rightarrow what was the cause of the | e admittance? | |
|-------|---|---------------|--|
| | \rightarrow in pregnancy week | until | |
| 🗌 no | | | |

38. Did you have an operation or another medical treatment, wherein you received anaesthetics <u>during</u> pregnancy?

| 🗌 yes | \rightarrow what operation/treatme | ent? | ••••• |
|-------|--------------------------------------|-------|-------|
| | ightarrow in pregnancy week | until | |
| 🗌 No | | | |

39. Have you had X-rays <u>during</u> pregnancy? (E.g. at the dentist or in the hospital)

| 🗌 yes | ightarrow what parts of ye | bur body were X-rayed? |
|-------|-------------------------------|------------------------|
| | \rightarrow in pregnancy we | eek: |
| 🗌 no | | |

40. Did you use any <u>prescriptive</u> medications in the 3 months <u>before</u> or <u>during</u> pregnancy? (Examples of medications can be seen at question 38)

| yes | | |
|-----|---------------|---------------------|
| no | \rightarrow | skip to question 42 |

41. Please fill in for each medication in the table below whether you have taken it and in what period. (You are allowed to fill in more than one period)

| ✓ yes → □ in the 3 months before pregnancy □ in pregnancy month 1-2 (week 0-9) ✓ in pregnancy month 3-4 (week 10-18) ✓ in pregnancy month 5-9 (week 19-42) |
|---|
| brandname: |
| a. Iron supplements? |
| yes → □ in the 3 months before pregnancy □ in pregnancy month 1-2 (week 0-9) □ in pregnancy month 3-4 (week 10-18) □ in pregnancy month 5-9 (week 19-42) |
| brandname: no |
| b. Morning sickness medicines? |
| yes → □ in the 3 months before pregnancy □ in pregnancy month 1-2 (week 0-9) □ in pregnancy month 3-4 (week 10-18) □ in pregnancy month 5-9 (week 19-42) |
| brandname: no |
| c. Sleeping pills or tranquillizers? |
| yes → □ in the 3 months before pregnancy □ in pregnancy month 1-2 (week 0-9) □ in pregnancy month 3-4 (week 10-18) □ in pregnancy month 5-9 (week 19-42) brandname: |

| d. Pills for anxiety or depression (antidepressants)? | | | | |
|---|---|--|--|--|
| □ yes → | in the 3 months before pregnancy in pregnancy month 1-2 (week 0-9) in pregnancy month 3-4 (week 10-18) in pregnancy month 5-9 (week 19-42) | | | |
| | brandname: | | | |
| 🗌 no | | | | |
| e. Pills fo | r asthma or chronic bronchitis? | | | |
| □ yes → | in the 3 months before pregnancy | | | |
| | in pregnancy month 1-2 (week 0-9) | | | |
| | in pregnancy month 3-4 (week 10-18) | | | |
| | in pregnancy month 5-9 (week 19-42) | | | |
| | brandname: | | | |
| 🗌 no | | | | |
| | | | | |
| f. Anticon | vulsants or pills for seizures? | | | |
| □ yes → | in the 3 months before pregnancy | | | |
| | in pregnancy month 1-2 (week 0-9) | | | |
| | in pregnancy month 3-4 (week 10-18) | | | |
| | in pregnancy month 5-9 (week 19-42) | | | |
| | brandname: | | | |
| 🗌 no | | | | |
| | | | | |
| g. Blood p | ressure tablets? | | | |
| \Box yes \rightarrow | in the 3 months before pregnancy | | | |
| | in pregnancy month 1-2 (week 0-9) | | | |
| | in pregnancy month 3-4 (week 10-18) | | | |
| | in pregnancy month 5-9 (week 19-42) | | | |
| | brandname: | | | |
| 🗌 no | | | | |
| | | | | |
| h. Pills fo | r diabetes (inclusive insulin)? | | | |
| □ yes → | in the 3 months before pregnancy | | | |
| | in pregnancy month 1-2 (week 0-9) | | | |
| | in pregnancy month 3-4 (week 10-18) | | | |
| | in pregnancy month 5-9 (week 19-42) | | | |
| | brandname: | | | |
| 🗌 no | | | | |

i. Antibiotics?

| 🗌 yes | → | in the 3 months before pregnancy in pregnancy month 1-2 (week 0-9) in pregnancy month 3-4 (week 10-18) in pregnancy month 5-9 (week 19-42) |
|----------|---------------|---|
| 🗌 no | | brandname: |
| j. Presc | rip | tive pain relievers? |
| 🗌 yes | → | in the 3 months before pregnancy in pregnancy month 1-2 (week 0-9) in pregnancy month 3-4 (week 10-18) in pregnancy month 5-9 (week 19-42) |
| 🗌 no | | brandname: |
| k. Pres | crip | tive anti-inflammatory drugs? |
| 🗌 yes | → | in the 3 months before pregnancy in pregnancy month 1-2 (week 0-9) in pregnancy month 3-4 (week 10-18) in pregnancy month 5-9 (week 19-42) |
| 🗌 no | | brandname: |
| I. Othe | r pr | escriptive drugs? |
| 🗌 yes | \rightarrow | which drugs and in what period? |
| | | 1 |
| | | 2 |
| | | 3 |
| | | 4 |
| 🗌 no | | |

4. Questions about life style

| 42. | Did you use folic acid supplements in the 3 months <u>before</u> or <u>during</u> pregnancy? (<u>for multivitamins go to question 44</u>) | | |
|-----|---|--|--|
| | □ yes □ no \rightarrow skip to question 44 | | |
| 43. | a. Did you use folic acid supplements <u>before you got pregnant</u>? □ yes → □ more than 4 weeks before getting pregnant □ less than 4 weeks before getting pregnant □ no | | |
| 43. | b. Did you use folic acid supplements during the pregnancy? | | |
| | yes → from pregnancy week Ino | | |
| 44. | Did you use multivitamin supplements in the 3 months before or during pregnancy? | | |
| | \Box yes \rightarrow \Box multivitamins especially made for pregnant women (E.g. Gravitamon) | | |
| | $\Box \text{ other multivitamins: } \dots$ $\Box \text{ no } skip \text{ to question 46}$ | | |
| 45. | a. Did you use multivitamin supplements before you got pregnant? | | |
| | yes → □ more than 4 weeks before getting pregnant □ less than 4 weeks before getting pregnant | | |
| | L no | | |
| 45. | b. Did you use multivitamin supplements <u>during the pregnancy</u> ? | | |
| | yes → from pregnancy week no | | |
| 46. | Did you smoke in the 3 months <u>before</u> or <u>during</u> pregnancy? | | |
| | □ yes □ no \rightarrow skip to question 49 on the next page | | |
| 47. | Did you stop smoking <u>during</u> pregnancy? | | |
| | yes → in pregnancy week: no | | |

48. How many cigarettes did you smoke per <u>day</u>?

(Try to fill this in for every period. When you did not smoke during a certain period, please fill in 0. When you smoked only a part of the period, please fill in the number of cigarettes you smoked <u>before</u> you stopped)

| In the 3 months before pregnancy: | cigarettes per day |
|---------------------------------------|--------------------|
| In pregnancy months 1-2 (week 0-9): | cigarettes per day |
| In pregnancy months 3-4 (week 10-18): | cigarettes per day |
| In pregnancy months 5-9 (week 19-42): | cigarettes per day |

- 49. Did you drink any alcohol in the 3 months before or during pregnancy?
 - yes no

to \rightarrow skip to question 52

50. Did you stop drinking alcohol <u>during</u> pregnancy?

| 🗌 yes | \rightarrow in pregnancy week: | |
|-------|----------------------------------|--|
| | | |
| | | |

51. How many glasses of alcohol did you drink on average per <u>week</u>? (Try to fill this in for every period. When you did not drink alcohol during a certain period, please fill in 0. When you drank only a part of the period, please fill in the number of glasses you drank <u>before</u> you stopped drinking)

| In the 3 months before pregnancy: | glasses per week |
|---------------------------------------|------------------|
| In pregnancy months 1-2 (week 0-9): | glasses per week |
| In pregnancy months 3-4 (week 10-18): | glasses per week |
| In pregnancy months 5-9 (week 19-42): | glasses per week |

52. Did you use (soft)drugs in the 3 months before or during pregnancy?

| 🗌 yes | \rightarrow What type of drugs? |
|-------|-----------------------------------|
| 🗌 no | \rightarrow skip to question 55 |

53. Did you stop using (soft)drugs <u>during</u> pregnancy?

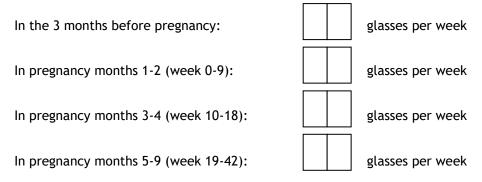
| yes | \rightarrow | in pregnancy week: |
|-----|---------------|--------------------|
| no | | |

54. How often did you use (soft)drugs in the 3 months <u>before</u> or <u>during</u> pregnancy? (If you stopped using (soft)drugs, please fill in for the period <u>before</u> you stopped)

| (a | almost) | daily |
|----|---------|-------|
|----|---------|-------|

- one or a few times a week
- one or a few times a month
- incidental
- 55. How many glasses of cola or cola light did you drink on average per <u>week</u> in the 3 months <u>before</u> or <u>during</u> pregnancy?

(Try to fill this in for every period. When you did not drink cola during a certain period, please fill in 0)



56. How many cups of coffee <u>with caffeine</u> did you drink on average per <u>day</u> in the 3 months <u>before</u> or <u>during</u> pregnancy?

(Try to fill this in for every period. When you did not drink coffee during a certain period, please fill in 0)

| In the 3 months before pregnancy: | cups per day |
|---------------------------------------|--------------|
| In pregnancy months 1-2 (week 0-9): | cups per day |
| In pregnancy months 3-4 (week 10-18): | cups per day |
| In pregnancy months 5-9 (week 19-42): | cups per day |

57. How many cups of tea did you drink on average per <u>day</u> in the 3 months <u>before</u> or <u>during</u> pregnancy? (*Try to fill this in for every period. When you did not drink tea during a certain period, please fill in 0*)

| In the 3 months before pregnancy: | cups per day |
|---------------------------------------|--------------|
| In pregnancy months 1-2 (week 0-9): | cups per day |
| In pregnancy months 3-4 (week 10-18): | cups per day |
| In pregnancy months 5-9 (week 19-42): | cups per day |

| 58. | Did you experience a period of (acute) stress or an emotional event, which had its influence on your |
|-----|--|
| | state of mind in the 3 months before or during pregnancy? |
| | (E.g. death of a loved one, relational or financial problems, being fired) |

| | yes |
|--|-----|
|--|-----|

- \Box no \rightarrow skip to question 60
- 59. When did you experience this period of stress or the emotional event and how long did it last?

| in the 3 months before pregnancy | duration: | weeks |
|--------------------------------------|-----------|-------|
| in pregnancy months 1-2 (week 0-9) | duration: | weeks |
| in pregnancy months 3-4 (week 10-18) | duration: | weeks |
| in pregnancy months 5-9 (week 19-42) | duration: | weeks |

- 60. Did you dye your hair in the 3 months <u>before</u> or <u>during</u> pregnancy? (We mean real hair dye and not a temporary colour)
 - yes
 - \Box no \rightarrow skip to question 62
- 61. When did you dye your hair? (More answers are possible)
 - in the 3 months before pregnancy
 - in pregnancy months 1-2 (week 0-9)
 - in pregnancy months 3-4 (week 10-18)
 - in pregnancy months 5-9 (week 19-42)

62. Which one of the following personal care products did you use almost on a daily basis in the 3 months <u>before</u> or <u>during</u> pregnancy? (*More answers are possible*)

| deodorant | | hand cream |
|-------------------------------------|--------|---------------------------------|
| perfume or eau de toilette | | facial cream |
| hairspray | | foundation or make-up cream |
| other hair products (gel, wax) | | powder or rouge |
| nail polish | | eye shadow |
| body lotion or body milk | | mascara, eye pencil or eyeliner |
| sun screen (incidental use as well) | | lip stick or lip balm |
| other products: | •••••• | |
| | ••••• | |
| none | | |

5. Questions about leisure time and living environment

Again, in the following questions, with the period before pregnancy we mean 3 months before conception: this period started in most cases a year before the birth of your child. 63. Did you paint in or around your own house or someone else's in the 3 months before or during pregnancy? yes \rightarrow skip to question 66 no no 64. What kind of paint did you use? Did you paint inside or outside the house? (more answers are possible) water-based paint, like latex or acryl paint \rightarrow inside outside oil-based paint (paints with solvents like turpentine) inside \rightarrow outside 65. How many days did you paint? (Try to fill in every period. When you did not paint during a certain period, please fill in 0) In the 3 months before pregnancy: days

| In pregnancy months 1-2 (week 0-9): | days |
|---------------------------------------|------|
| In pregnancy months 3-4 (week 10-18): | days |
| In pregnancy months 5-9 (week 19-42): | days |

66. Did someone else paint in your house or lay carpets with oil-based paint or adhesives in the 3 months before or during pregnancy? (*no water-based paint or adhesives*)

| \Box yes \rightarrow how many days? | in the 3 months before pregnancy: | days |
|---|---------------------------------------|------|
| | in pregnancy months 1-2 (week 0-9): | days |
| | in pregnancy months 3-4 (week 10-18): | days |
| 🗍 no | in pregnancy months 5-9 (week 19-42): | days |

| 67. | Did you have a <u>hobby</u> where you used oil-based paint, varnish, adhesives, or thinners on a <u>weekly</u> basis for more than a month in the 3 months <u>before</u> or <u>during</u> pregnancy? | |
|-----|--|--|
| | \Box yes \rightarrow which ? | |
| | \square no \rightarrow skip to question 69 | |
| 68. | How many hours <u>per week</u> did you work with these oil-based paint, varnish, adhesives, or thinners in your <u>hobby</u> ? (Try to fill in every period. When you did not carry <u>out your hobby during a certain period, please fill in 0</u>) | |
| | In the 3 months before pregnancy: hours per week | |
| | In pregnancy months 1-2 (week 0-9): hours per week | |
| | In pregnancy months 3-4 (week 10-18): hours per week | |
| | In pregnancy months 5-9 (week 19-42): hours per week | |
| 69. | Did you use pesticides in your garden in the 3 months <u>before</u> or <u>during</u> pregnancy? (To destroy herbicides, insects, fungicides, etc.) | |
| | □ yes □ no \rightarrow skip to the text (!) above question 71 | |
| 70. | When did you use these pesticides? (more answers are possible) | |
| | \Box in the 3 months before pregnancy \rightarrow how many times per months? | |
| | in pregnancy months 1-2 (week 0-9) \rightarrow how many times per months? | |
| | in pregnancy months 3-4 (week 10-18) \rightarrow how many times per months? | |
| | in pregnancy months 5-9 (week 19-42) \rightarrow how many times per months? | |
| ! | The next questions concern your living environment in the 3 months <u>before</u> pregnancy. When you have moved house in this period or during pregnancy, you can indicate this at question 75. | |
| 71. | Did you and/or partner have a company at home where chemicals were used in the 3 months <u>before</u> pregnancy? | |
| | yes, a company with paint, varnish, adhesives or thinners (e.g. painting business) yes, a company with pesticides (e.g. farm or greenhouse) yes, a company with other chemicals (describe your company and the chemicals): | |
| | | |

 \Box no, no company at home with chemicals

| 72. | Did you and/or your partner have a cattle farm in the 3 months <u>before</u> pregnancy? | |
|-----|--|--|
| | yes → what kind of cattle? cows sheep / goats pigs horses poultry other: | |
| | no | |
| 73. | How would you describe your living environment in the 3 months <u>before</u> pregnancy? | |
| | town - in the centre town - outside the centre village - in the heart of the centre village - outside the centre or in the country other: | |
| 74. | Did you live close to a waste incineration plant in the 3 months <u>before</u> pregnancy? | |
| | yes → distance between house and plant: no | |
| 75. | Did you move house in the 3 months <u>before</u> or <u>during</u> pregnancy? | |
| | □ yes □ no \rightarrow skip to question 78 on the next page | |
| 76. | When did you move? | |
| | Month: | |
| | Year: | |
| 77. | Has your living environment been changed because you moved house. These changes include aspects asked in questions 71 to 74? (The questions about a company at home, cattle farm, house location and the distance to the waste incineration plant) | |
| | \Box yes \rightarrow what has changed? | |
| | | |
| | no | |

6. Questions about your job

| Did you have a job in the 3 months <u>before</u> or <u>during</u> pregnancy? (With a job, we mean a paid job or voluntary work, working in your own company, (unpaid) assisting in your own company or moonlighting, for a minimum of 8 hours per week) yes no \rightarrow skip to question 95 on page 26 | | |
|--|--|--|
| When did you stop working or did you get your maternity leave? □ before you got pregnant → skip to question 81 □ in pregnancy week: □ on the day of the delivery | | |
| Have you been absent from work for more than 3 weeks <u>during</u> pregnancy, before you stopped working? (E.g. sickness or holiday) □ yes → in pregnancy week until until in pregnancy week until until | | |
| How many hours per week did you work in the 3 months before or during pregnancy? (You might have stopped working in the middle of a period. Please, fill in the hours you worked before you stopped. When you did not work at all during a period, please fill in 0) In the 3 months before pregnancy: hours per week In pregnancy months 1-2 (week 0-9): hours per week In pregnancy months 3-4 (week 10-18): hours per week In pregnancy months 5-9 (week 19-42): hours per week | | |
| you have changed jobs in this period or during pregnancy, you can indicate this at question 91. When your work remained the same, but your work activities changed during your pregnancy (e.g. less heavy lifting), you can indicate this at question 94. In what type of business/industry/trade did you work in the 3 months <u>before</u> pregnancy? | | |
| | | |

| <u>E.g.: In a supermarket</u> | |
|-------------------------------|--------|
| | |
| | |
| | |
| | |
| | •••••• |

| 83. | What was your job title/description? | | |
|-----|---|--|--|
| | E.g.: Counter clerk | | |
| | | | |
| | | | |
| | | | |
| | | | |
| 84. | Please describe your main activities at work: | | |
| | E.g.: Serving at the cash register, ordening the shop, prizing articles | | |

.....

85. Please indicate in this table whether you worked with the following chemicals in the 3 months <u>before</u> pregnancy? **Notice: only use at <u>your work</u>**. (*Please fill in the complete table*)

| | Did you work with these products in the 3 months before pregnancy? |
|---|--|
| Personal care products (at work) (like hairspray, hair dye, nail polish and creams) | yes → how many hours per week? no |
| X-rays (at work) | □ yes → how many hours per week? □ no |
| Anaesthetics - or working with patients who received anaesthetics | □ yes → how many hours per week? □ no |
| Cytostatics (chemotherapy) - or working with patients who received cytostatics | □ yes → how many hours per week? □ no |
| Disinfectants (like alcohol and formaldehyde) | yes → how many hours per week? no |
| Domestic cleaning agents (at work) (like all-purpose cleaner, interior cleaner and abrasive) | yes → how many hours per week? no |
| Industrial cleaning agents and solvents | □ yes → how many hours per week? □ no |
| Water-based paint, varnish, adhesives, ink, or thinner (at work) | □ yes → how many hours per week? □ no |
| Oil-based paint, varnish, adhesives, ink, or thinner (at work) | □ yes → how many hours per week? □ no |
| Other chemicals (at work): | □ yes → how many hours per week? □ no |
| | yes → how many hours per week? no |

| 86. | Were you exposed to exhaust fumes <u>at work</u> in the 3 months <u>before</u> pregnancy? (E.g. at a loading platform or with fork-lifts) |
|-----|---|
| | yes → how many hours per week? no |
| 87. | Were you exposed to fumes related with production processes <u>at work</u> in the 3 months <u>before</u> pregnancy? (E.g. welding fumes, plastic fumes and gasoline, but not for personal use) |
| | \Box yes \rightarrow what kind of fumes? |
| | → how many hours per <u>week</u> ? |
| 88. | Did you work with pesticides in the 3 months <u>before</u> pregnancy? (To destroy herbicides, insects, fungicides, etc.) |
| | yes → how many times per month? no |
| 89. | Did others in your work environment use pesticides in the 3 months <u>before</u> pregnancy? (While you were working or in the evening or at night, after which you went working in that area the next day) $ \bigcirc $ |
| 90. | What kinds of pesticides were used? (More answers are possible) |
| | insecticides herbicides fungicides soil disinfectants other: no pesticides were used by me or in my work environment |
| 91. | Did you change jobs in the 3 months <u>before</u> or <u>during</u> pregnancy? |
| | $\begin{array}{c c} & \text{yes} \\ \hline & \text{no} & \rightarrow skip \ to \ question \ 94 \end{array}$ |
| 92. | When did you change jobs? |
| | Month: |
| | Year: |

| 93. | | be your new job? of company, your job title and your main working activities; look at question 82, 83 and 84) |
|-----|-----------------|---|
| | | |
| | | |
| | | |
| 94. | (E.g. because y | ities at work change in the 3 months <u>before</u> or <u>during</u> pregnancy? ou changed jobs or because you were pregnant. Especially think about the use of pesticides and s; look at question 85 to 90) |
| | □ yes → | what changed and from what week before or during pregnancy? |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

🗌 no

year:

95. Did you have a vegetarian, vegan or other special diet <u>during</u> pregnancy? (More answers are possible)

| | vegetarian (no meat or fish) | \rightarrow in pregnancy week until |
|-----|--|--|
| | vegan (no animal products) | → in pregnancy week until |
| | low-salt or salt-free | \rightarrow in pregnancy week until |
| | slimming diet, please describe: | \rightarrow in pregnancy week until |
| | | |
| | other, please describe: | → in pregnancy week until |
| | no | |
| 96. | Did you use slimming supplements <u>during</u> | g pregnancy? (like slimming bars, shakes, drinks or meals) |
| | 🗌 yes, on a daily basis | \rightarrow which ones? |
| | yes, every now and then | → in pregnancy week until |
| | no | |
| ! | months of pregnancy (week 0-18). Bec you can use these diet habits to think | ts at this moment (<u>currently</u>) and during the <u>first 4</u> ause you know your diet habits at this moment the best, about your diet habits during pregnancy. In other words: lid you eat more often or less often during pregnancy |
| 97. | When were the first 4 months of pregnar | ncy? (mnemonic device for yourself) |
| | month 1: | until month 4: |
| | | |

year:

98. Please fill in this table completely. Per product you have to fill in the <u>upper row</u> about how often you eat this product <u>currently</u>. In the <u>lower row</u> you have to fill in how often you ate this product <u>in</u> the first 4 months of pregnancy.

| | | <u>never</u> | every now and then | 1-2x per week | 3-5x per week | 6-7x per week |
|---|--|--------------|--------------------------|---------------------|---------------------|---------------------|
| Example: Chips | currently: first 4 months of pregnancy: | | | | | |
| Sausage (as bread topping or at dinner) | currently: first 4 months of pregnancy: | | | | | |
| Meat: cold cuts (as bread toppings) | currently: first 4 months of pregnancy: | | | | | |
| Meat: beef, pork, veal, lamb, minced meat, etc. <i>(at dinner)</i> | currently: first 4 months of pregnancy: | | | | | |
| Chicken and turkey (at dinner) | currently: first 4 months of pregnancy: | | | | | |
| Organ meat (like liver, heart, kidneys) | currently: first 4 months of pregnancy: | | | | | |
| Meat: snacks | currently: first 4 months of pregnancy: | | | | | |
| Fish and shellfish (like salmon, vissticks, mussels, etc) | currently: first 4 months of pregnancy: | | | | | |
| Potatoes | currently: first 4 months of pregnancy: | | | | | |
| Pasta or noodles (including lasagne, macaroni, spaghetti, etc.) | currently: first 4 months of pregnancy: | | | | | |
| Rice or cereals (like buckwheat and couscous) | currently: first 4 months of pregnancy: | | | | | |
| Beans and other legumes (like peas and lentil, but no soy) | currently: first 4 months of pregnancy: | | | | | |
| Salads and raw vegetables | currently: first 4 months of pregnancy: | | | | | |
| Green vegetables and cabbages (like broccoli, spinach, sprouts, cauliflower and kale) | currently: first 4 months of pregnancy: | | | | | |
| Other vegetables (like tomatoes, peppers, carrots and unions) | currently: first 4 months of pregnancy: | | | | | |
| | | | | | | |

| | | <u>never</u> | every now and then | 1-2x per week | 3-5x per week | 6-7x per week |
|--|--|--------------|--------------------------|---------------------|---------------------|---------------------|
| Quorn (meat replacement without soy) | currently: first 4 months of pregnancy: | | | | | |
| 'Soy meat', soy beans, tempeh, tofu or tahoe | currently: first 4 months of pregnancy: | | | | | |
| Soy milk or soy drinks (also in deserts) | currently: first 4 months of pregnancy: | | | | | |
| Other soy products or meat replacements: | currently: first 4 months of pregnancy: | | | | | |
| Flaxseed (loose seeds, oil or homeopathic use) | currently: first 4 months of pregnancy: | | | | | |
| Nuts (like cashew peanuts and walnuts) | currently: first 4 months of pregnancy: | | | | | |
| Chocolate (including bonbons, Mars, Nuts, Smarties, etc.) | currently: first 4 months of pregnancy: | | | | | |
| Eggs | currently: first 4 months of pregnancy: | | | | | |
| Cheese (including cream cheese, goat's milk cheese, cheese spread, etc.) | currently: first 4 months of pregnancy: | | | | | |
| Yoghurt and pudding | currently: first 4 months of pregnancy: | | | | | |
| Breakfast cereals (like cornflakes, oatmeal and muesli) | currently: first 4 months of pregnancy: | | | | | |
| Crackers and rusk | currently: first 4 months of pregnancy: | | | | | |

99. What kind of bread do you usually eat <u>currently</u> and how many slices <u>per day</u> on average? How many slices did you eat <u>in the first 4 months of pregnancy</u>?

| | | Currently: | In the first 4 months of pregnancy: |
|-------------------------|---------------|----------------|-------------------------------------|
| white, brown, wholemeal | ÷ | slices per day | slices per day |
| 🗌 rye bread | ÷ | slices per day | slices per day |
| glut-free bread | \rightarrow | slices per day | slices per day |
| Other: | ÷ | slices per day | slices per day |

100. How many pieces of fruit do you eat <u>currently</u> on average <u>per week</u>? How many did you eat <u>in the</u> <u>first 4 months of pregnancy</u>?

| Currently: | In the first 4 months of pregnancy: |
|---|---|
| none or less than 1 piece per week 1-3 pieces per week 4-7 pieces per week 8-14 pieces per week (1-2 pieces per day) 15 or more pieces per week | none or less than 1 piece per week 1-3 pieces per week 4-7 pieces per week 8-14 pieces per week (1-2 pieces per day) 15 or more pieces per week |
| | |

101. How many glasses of fruit juice do you drink <u>currently</u> on average <u>per week?</u> How many glasses did you drink <u>in the first 4 months of pregnancy</u>? (*E.g. orange juice, apple juice or multifruit juice*)

| Currently: | In the first 4 months of pregnancy: |
|---|--|
| none or less than 1 glass per week | none or less than 1 glass per week |
| 1-3 glasses per week | 1-3 glasses per week |
| 4-7 glasses per week | 4-7 glasses per week |
| 8-14 glasses per week (1-2 glasses per day) | 8-14 glasses per week (1-2 glasses per day) |
| 15 or more glasses per week | 15 or more glasses per week |
| | none or less than 1 glass per week 1-3 glasses per week 4-7 glasses per week 8-14 glasses per week <i>(1-2 glasses per day)</i> |

102. How many glasses of milk or milk products do you drink <u>currently</u> on average <u>per week?</u> How many glasses did you drink <u>in the first 4 months of pregnancy</u>? (Also milk with the cornflakes, chocolate milk, fruit milks like Fristi and Yoghy-drink)

Currently:

- none or less than 1 glass per week
- □ 1-3 glasses per week
- 4-7 glasses per week
- 8-14 glasses per week (1-2 glasses per day)
- ☐ 15 or more glasses per week

In the first 4 months of pregnancy:

- $\hfill\square$ none or less than 1 glass per week
- □ 1-3 glasses per week
- ☐ 4-7 glasses per week
- 8-14 glasses per week (1-2 glasses per day)
- \Box 15 or more glasses per week

103. Perhaps there are things in your living environment, life style or medical history of which you think that they might (also) play a role in the aetiology of the malformation of your child. Please write down these factors below.

..... 104. When you have any other questions or comments about this questionnaire, please feel free to write them down below.

Finally

| We will remove this page from the questionnaire and store it separately. |
|---|
| Your name and address |
| Name: |
| Address: |
| |
| Telephone number: |
| Email: |
| Date of filling in this questionnaire: |
| 105. Do you allow us to contact you in case something is unclear in this questionnaire? yes no |
| 106. Do you allow us to contact you to ask for participation in a follow-up study when necessary? (You can always decide at that time whether you will or will not participate definitively) yes no |
| 107. Would you like to receive a report about the most important results of this study? |

☐ yes ☐ no

Thank you very much for filling in the questionnaire!