#### Calculation of exposure metrics at the two timepoints

The adjustment approach was as follows: if a specific participant's first trimester occurred from January to March, for example, and the average concentration of NO<sub>x</sub> measurements over this period at the reference site was  $10 \,\mu\text{g/m}^3$ , while the annual average at the reference site was  $5 \,\mu\text{g/m}^3$ , a ratio of 2:1 for the first-trimester average to annual average was established for that participant. The annual average ambient concentration calculated for that participant's address by the hybrid model could then be doubled as an estimate of first-trimester average exposure. A similar adjustment was made to estimate average exposure during the month of birth for each participant.

### **EQUATION 1:**

 $\frac{1 \text{st trimester avg.conc at participant's address}}{\text{Annual avg.conc.at participant's address}} = \frac{1 \text{st trimester avg.conc at reference site}}{\text{Annual avg.conc.at reference site}}$ 

Therefore, 1st trimester avg conc. at participant's address

 $= \frac{1 st \ trimester \ avg. conc. at \ ref. site \times annual \ avg. conc. at \ participant's \ address}{Annual \ avg. conc. at \ ref. site}$ 

### **EQUATION 2:**

Birth month avg.conc.at participant's addressBirth month avg.conc.at reference siteAnnual avg.conc.at participant'saddressAnnual avg.conc.at reference site

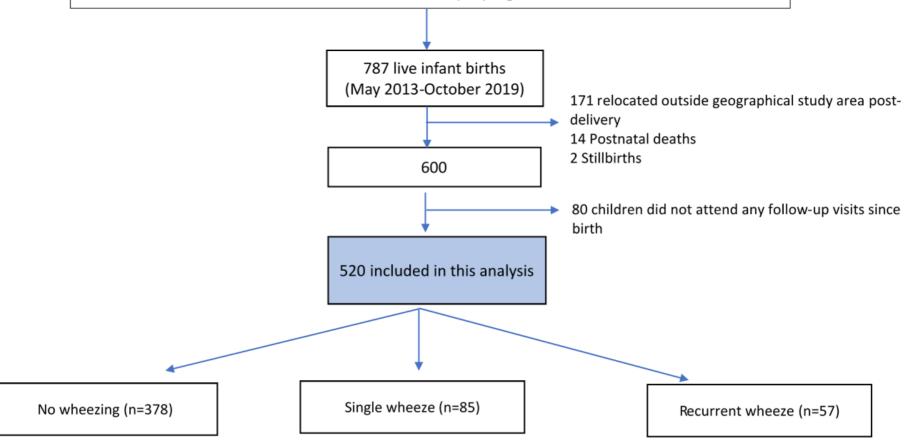
Therefore, birth month avg conc. at participant's address

= Birth month avg.conc.at ref.site × annual avg.conc.at participant's address

Annual avg.conc.at ref.site

Pregnant women recruited at the public sector ante-natal clinics in the south and north communities of Durban, South Africa, preferably in the first trimester Inclusion criteria - residence in the geographical area for the duration of the pregnancy and the period of follow-up.

Exclusion criteria - multiple pregnancies.



Supplementary Figure 1. Recruitment into MACE Cohort and Sample selection for wheeze outcome analysis

| Characteristics                     | Study<br>Participants<br>(n=520) % | Excluded<br>Cohort<br>Members<br>(n=80) % |
|-------------------------------------|------------------------------------|---|
| Mother education                    |                                    |   |
| < Secondary school education        | 26.0                               | 26.2                                      |
| Matric (high school graduate)       | 57.7                               | 47.5                                      |
| College/ Technikon/ University      | 16.5                               | 26.2                                      |
| Mother's yearly gross income (US\$) |                                    |   |
| None                                | 49.2                               | 45.0                                      |
| <\$ 650                             | 19.2                               | 16.2                                      |
| \$ 650-\$2000                       | 18.1                               | 17.5                                      |
| >\$2000                             | 10.8                               | 11.2                                      |
| Refused to answer                   | 2.7                                | 10.0                                      |
| Housing type                        |                                    |   |
| Formal                              | 83.5                               | 91.2                                      |
| Informal                            | 16.5                               | 8.8                                       |
| Maternal age (mean (SD))            | 26.2 (6.0)                         | 26.5 (5.5)                                |
| Infant sex (male)                   | 53.6                               | 47.5                                      |
| Birthweight (mean (SD))             | 3136.9 (545.6)                     | 3168.9                                    |
|                                     |                                    | (552.7)                                   |

Table S1: Demographics differences between participants included in this analysis (n=520) and those not included (n=80)\* within the MACE birth cohort

These participants did not attend any clinical assessments post delivery

There were no statistically significant differences between the included and excluded groups

# Table S2: Comparison of time to single and recurrent wheezing for risk factors of child wheezing

|                         | Singl                 | e wheeze (n | =85)                | Recur                 | rent wheeze | (n=57)              |
|-------------------------|-----------------------|-------------|---------------------|-----------------------|-------------|---------------------|
| Variables               | Mean time<br>(months) | 95% CI      | Log-Rank<br>P-value | Mean time<br>(months) | 95% CI      | Log-Rank<br>P-value |
| Child gender            |                       |             |                     |                       |             |                     |
| Male                    | 37.8                  | 35.7-39.9   | 0.169               | 45.6                  | 44.5-46.7   | 0.487               |
| Female                  | 39.6                  | 37.5-41.7   |                     | 46.1                  | 45.0-47.2   |                     |
| Antenatal ETS           |                       |             |                     |                       |             |                     |
| Yes                     | 37.1                  | 35.0-39.3   | 0.017*              | 45.4                  | 44.3-46.5   | 0.035*              |
| No                      | 40.5                  | 38.4-42.5   |                     | 46.5                  | 45.5-47.5   |                     |
| Maternal alcohol consu  | mption                |             |                     |                       |             |                     |
| Yes                     | 35.0                  | 29.4-40.6   | 0.171               | 43.9                  | 40.6-47.3   | 0.229               |
| No                      | 39.1                  | 37.5-40.6   |                     | 46.0                  | 45.2-46.8   |                     |
| Family history of asthm | na                    |             |                     |                       |             |                     |
| Yes                     | 36.1                  | 32.2-40.0   | 0.210               | 47.2                  | 46.1-48.3   | 0.250               |
| No                      | 39.1                  | 37.5-40.7   |                     | 45.6                  | 44.6-46.5   |                     |
| Energy sources of cook  | ing                   | •           | •                   |                       | •           |                     |
| Biomass or fossil       | 37.8                  | 29.1-46.5   | 0.928               | 42.9                  | 36.4-49.5   | 0.031*              |
| fuels                   |                       |             |                     |                       |             |                     |
| Electrical              | 38.6                  | 37.1-40.2   |                     | 45.9                  | 45.2-46.7   |                     |

Key: (\*) The association is significant at  $\alpha$ =0.05

| Variables                                      | Single Wheezing        |         | Recurrent Wheezing                    |         |
|--|------------------------|---------|---------------------------------------|---------|
|  | Adjusted HR<br>(95%CI) | P-value | Adjusted HR<br>(95%CI)                | P-value |
| Child gender                                   | •                      |         | · · · · · · · · · · · · · · · · · · · |         |
| Male   | 1.15 (0.80, 1.66)      | 0.447   |                                       |         |
| Female   | 1                      |         |                                       |         |
| Antenatal ETS                                  |                        |         |                                       |         |
| Yes  | 1.56 (1.05, 2.31)      | 0.025   | 2.09 (0.93, 4.71)                     | 0.073   |
| No   | 1                      |         |                                       |         |
| Maternal alcohol consumptio                    | n                      |         |                                       | •       |
| Yes  | 1.31 (0.73, 2.32)      | 0.364   | 1.42 (0.54, 3.77)                     | 0.476   |
| No   | 1                      |         |                                       |         |
| Family history of asthma                       |                        |         |                                       | •       |
| Yes  | 1.33 (0.86, 2.06)      | 0.234   | 0.60 (0.21, 1.74)                     | 0.350   |
| No   | 1                      |         |                                       |         |
| Energy sources of cooking                      |                        |         |                                       |         |
| Biomass or fossil fuels                        | 0.96 (0.35, 2.63)      | 0.945   | 2.55 (0.76, 8.55)                     | 0.128   |
| Electricity                                    | 1                      |         |                                       |         |
| Birth Month NO <sub>2</sub> <sup>#</sup>       | 1.14 (0.83, 1.58)      | 0.409   | 1.57 (0.85, 2.90)                     | 0.148   |
| First Trimester NO <sub>2</sub> <sup>#</sup>   | 0.82 (0.62, 1.08)      | 0.156   | 0.83 (0.49, 1.41)                     | 0.493   |
| Birth Month PM <sub>2.5</sub> <sup>#</sup>     | 1.13 (0.84, 1.53)      | 0.417   | 1.41 (0.79, 2.50)                     | 0.239   |
| First Trimester PM <sub>2.5</sub> <sup>#</sup> | 0.79 (0.58,1.07)       | 0.131   | 0.71 (0.40, 1.23)                     | 0.250   |

Table S3a: Cox-proportional hazards model for risk factors that contribute to single and recurrent episodes of childhood wheezing with a unit change in IQR of pollutants.

Table 3b: Comparison of adjusted HR estimates between (1ug/m³) increase and one IQRincrease in pollutant level (per 1ug/m³ extracted from the original Table 3)

|  | Single Wheezing (n=85) |                   | Recurrent Wheezing (n=57) |                   |
|--|------------------------|-------------------|---------------------------|-------------------|
|  | Per 1ug/m <sup>3</sup> | Per IQR           | Per 1ug/m <sup>3</sup>    | Per IQR increase  |
|  | increase               | increase          | increase                  |                   |
| Birth Month NO <sub>2</sub> <sup>#</sup>       | 1.02 (0.99, 1.04)      | 1.14 (0.83, 1.58) | 1.03 (1.00, 1.08)         | 1.57 (0.85, 2.90) |
| First Trimester NO <sub>2</sub> <sup>#</sup>   | 0.97 (0.94, 1.00)      | 0.82 (0.62, 1.08) | 0.95 (0.91, 1.01)         | 0.83 (0.49, 1.41) |
| Birth Month PM <sub>2.5</sub> <sup>#</sup>     | 1.02 (0.98, 1.05)      | 1.13 (0.84, 1.53) | 1.04 (0.97, 1.10)         | 1.41 (0.79, 2.50) |
| First Trimester PM <sub>2.5</sub> <sup>#</sup> | 0.96 (0.92, 1.01)      | 0.79 (0.58,1.07)  | 0.95 (0.87, 1.03)         | 0.71 (0.40, 1.23) |

Because of concerns of masking effects due to our metrics used in the regression model, we ran a sensitivity analysis using the interquartile range (IQR). The estimates from this analysis is shown in the Table S3a and S3b: S3a shows the effects across all covariates, and S3b shows a comparison of the pollutant-related effects from the original metric (change in effect with each 1ug increase in pollutant) and the IQR estimates. As can be seen, the adjusted HR estimates for the exposure variables varied only slightly, but did not change in statistical significance. Because of this, we retained the 1ug metric rather than the IQR in the main text.

Child clinical questionnaire

| Mother and Child in the Environment (MACE) |   |  |
|--|---|--|
| Child follow-up                            |   |  |
| Date: :/_/MID:<br>Day Month Year           | CID:  |  |
| 1. Date of Birth:                          | / /<br>day month year   |  |
| 2. Chronological age                       | months  |  |
| 3. Baby's birth weight                     | grams   |  |
| 4. Baby's birth Length                     | cm<br>□ <sub>9</sub> Unknown  |  |
| 5. Baby's birth Head circumference         | cm<br>□ <sub>9</sub> Unknown  |  |
| 6. Baby's current weight                   | kg  |  |
| 7. Baby's current height                   | cm  |  |
| 8. Baby's current OFC                      | cm  |  |
| 9. BABY'S CURRENT MUAC                     | cm<br>□ <sub>9</sub> Unknown  |  |
| A) Classify MUAC                           | □ <sub>1</sub> Normal<br>□ <sub>2</sub> Moderate wasting<br>□ <sub>3</sub> Severe wasting |  |

| 10. Is the baby's Immunization up to date? | □ <sub>1</sub> Yes (If Yes,Skip to Q 12) |
|--|--|
| [INTERVIEWER TO CONFIRM WITH RTHC]         | □ <sub>2</sub> No                        |
|  |  |

| 11. If No, why was your child not immunised?                      | □1 Child unwell<br>□2 Mother missed visit<br>□3 Clinic had no stock<br>□4 Other   |
|---|---|
| Nutrition: (Z score)  |   |
| 12. Weight for age  | $\Box_1 \text{ Overweight}$ $\Box_2 \text{ Normal}$ $\Box_3 \text{ Underweight for age}$ $\Box_4 \text{ Severely UWFA}$   |
| 13. Height for age  | □1 Very Tall<br>□2 Normal<br>□3 Stunted<br>□4 Severely Stunted  |
| 14. Weight for height   | □1 Obese<br>□2 Overweight<br>□3 Normal<br>□4 Wasted (MAM)<br>□5 Severely wasted (SAM)   |
| 15. Classify Nutrition  | $\Box_1$ Normal $\Box_2$ Severe acute malnutrition $\Box_3$ Moderate malnutrition $\Box_4$ Mild malnutrition $\Box_5$ Severe wasting $\Box_6$ Moderate wasting $\Box_7$ Stunted |
| 16. OFC   | □1 Normal (If Normal,Skip to Q 17)<br>□2 Abnormal   |
| a) If Abnormal OFC  | $\Box_1$ Microcephaly $\Box_2$ Macrocephaly   |
| Development-  |   |
| 17. Can he/she walk up and down the stairs with two feet per step | □ <sub>1</sub> Yes □ <sub>2</sub> No  |
| 18. Can the child run?  | $\square_1$ Yes $\square_2$ No  |
| 19. Can the child ride a tricycle?                                | $\square_1$ Yes $\square_2$ No  |
| 20. Can he/she recognise colours                                  | $\square_1$ Yes $\square_2$ No  |
| 21. Does he have hand preference?                                 | $\square_1$ Yes $\square_2$ No  |

| 22. Can he make full sentences?  | $\square_1$ Yes $\square_2$ No  |
|--|---|
| 23. Does he know at least 50 words?                                    | $\square_1$ Yes $\square_2$ No  |
| 24. Can the baby feed himself/herself?                                 | $\square_1$ Yes $\square_2$ No  |
| 25. Is the baby's development normal?                                  | □₁ Yes (If Yes,Skip to Q 26)<br>□₂ No   |
| a) If No, Indicate the abnormality                                     |   |
| 26. What is the developmental age                                      | (months)  |
| 27. Did the baby have any respiratory problems from 1- 2years of age ? | □ <sub>1</sub> Yes<br>□ <sub>2</sub> No (If No,Skip to Q 29)<br>□ <sub>3</sub> Does not remember (Skip to Q 29) |
| 28. How many episodes did the child have?                              |   |
| Episode 1:   | DATE  |
| a) When was the 1 <sup>st</sup> episode?                               | DATE ORMONTHS AGO   |
| b) How long did it last?   | DAYS  |
|  | □₁ Does not recall  |
| c) Did you seek medical attention?                                     | $\Box_1 \text{ Clinic}$ $\Box_2 \text{ Hospital}$ $\Box_3 \text{ GP}$ $\Box_4 \text{ Self-medicated}$           |
| d) What treatment did the child receive?                               |   |
|  |   |
| Episode 2:   | DATE  |
| a) When was the 2nd episode?   | ORWEEKS AGO   |
| b) How long did it last?   | DAYS  |
| c) Did you seek medical attention?                                     | $\Box_1 \text{ Clinic}$ $\Box_2 \text{ Hospital}$ $\Box_3 \text{ GP}$ $\Box_4 \text{ Self-medicated}$           |
| d) What treatment did the child receive?                               |   |

| Episode 3:   | DATE  |
|--|---|
| a) When was the 3 <sup>rd</sup> episode?   | DATE  |
|  | WEEKS AGO   |
| b) How long did it last?   | DAYS  |
|  | □1 Does not recall  |
| c) Did you seek medical attention?   | □ <sub>1</sub> Clinic   |
|  | □₂ Hospital<br>□₃ GP  |
|  | □₄ Self-medicated   |
| d) What treatment did the child receive?   |   |
|  |   |
| 29. Does your baby currently have any of the                                       | □ <sub>1</sub> Cough  |
| following?   | $\square_2$ Blocked nose  |
|  | □ <sub>3</sub> Fever<br>□₄ None of the above <b>(Skip to Q31)</b> |
|  |   |
| 30. Did you seek medical attention?  | □₁ Clinic<br>□₂ Hospital  |
|  | □ <sub>3</sub> GP<br>□ <sub>4</sub> Self-medicated                |
|  |   |
| 31. What treatment did the child receive?  |   |
|  |   |
|  |   |
| 31. Did your child ever have a wheeze in the last one year . (whistling sound from | $\square_1$ Yes<br>$\square_2$ No (If No,Skip to Q 33)            |
| the chest)?  | $\square_3$ Does not remember (Skip to Q33)                       |
| 32. How many episodes did the child have?  |   |
|  |   |
| Episode 1:   | DATE  |
| a) When was the 1 <sup>st</sup> episode?   | OR  |
|  | WEEKS AGO   |
| b) How long did it last?   | DAYS  |
|  |   |
| c) Did you seek medical attention?   | □₁ Clinic<br>□₂ Hospital  |
|  | □₃GP  |
| d) What treatment did the child receive?   | □₄ Self-medicated   |
|  |   |
|  |   |

| Episode 2:                                  |  |
|---|--|
| a) When was the Ordeniands?                 | DATE   |
| a) When was the 2nd episode?                | OR MEEKS ACO   |
|   | WEEKS AGO  |
| b) How long did it last?                    | DAYS   |
|   | □1 Does not recall                                     |
| c) Did you seek medical attention?          | □ <sub>1</sub> Clinic                                  |
|   | $\square_2$ Hospital                                   |
|   | $\square_3 GP$<br>$\square_4 Self-medicated$           |
| d) What tractment did the shild receive?    |  |
| d) What treatment did the child receive?    |  |
|   |  |
| Episode 3:                                  |  |
| Episode 5.                                  | DATE   |
| a) When was the 3 <sup>rd</sup> episode?    | OR   |
| ,     | WEEKS AGO  |
|   |  |
| b) How long did it last?                    | DAYS<br>□1 Does not recall                             |
| a) Did you pool modical attention?          |  |
| c) Did you seek medical attention?          | $\square_2$ Hospital                                   |
|   | $\square_3 \text{GP}$                                  |
|   | □₄ Self-medicated                                      |
| d) What treatment did the child receive?    |  |
|   |  |
|   |  |
| 33. Does the baby have feeding difficulty   | $\square_1$ Yes $\square_2$ No                         |
|   |  |
| 34. Is the infant is HIV infected ?         | $\Box_1$ Yes $\Box_2$ No (If No,Skip to Q 36)          |
|   |  |
| 35. Is the child on antiretroviral therapy? | $\square_1$ Yes $\square_2$ No                         |
| a) If yes- what treatment is the baby on?   |  |
|   |  |
|   |  |
| b) When was the treatment initiated?        |  |
|   |  |
| 36. Is there a family history of TB?        | $\Box_1$ Yes $\Box_2$ No (If No,Skip to Q 37)          |
|   |  |
| a) Who has TB?                              | $\square_1$ Child's mum                                |
|   | $\square_2$ Child's dad                                |
|   | $\square_3$ Child's siblings                           |
| b) Is the above person on medication?       | $\square_1$ Yes<br>$\square_2$ No (If No Skip to 0.37) |
|   | $\square_2$ No (If No,Skip to Q 37)                    |
|   |  |

| c) What medication is the person taking?     |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
| Clinical assessment:                         |  |
| 37. Temperature                              |  |
|  |  |
| 38. Respiratory rate (bpm)                   |  |
| So. Respiratory rate (bpin)                  |  |
|  |  |
| 39. Respiratory System                       |  |
|  |  |
|  |  |
|  |  |
|  |  |
| 40. Does the child have RDS today?           |  |
|  | $\square_2$ No                         |
|  |  |
| 41. Does the child have an acute respiratory |  |
| infection the currently?                     | $\square_2$ No (If No,Skip to Q 42)    |
|  |  |
| a) Indicate type of infection                | □₁ Severe pneumonia                    |
|  | $\Box_2$ Pneumonia                     |
|  | $\square_3$ Cough or cold              |
|  | □₄ Recurrent wheeze                    |
|  | □ <sub>5</sub> Wheeze first episode    |
|  |  |
| b) Did the child receive any of the          | □1 Anitibiotics                        |
| following:                                   | Antibiotics                            |
| lonoming.                                    |  |
|  | □ <sub>2</sub> Bronchodilators         |
|  | _                                      |
|  |  |
|  | □ <sub>3</sub> Inhaled bronchodilators |
|  |  |
|  |  |
|  | □₄ Inhaled steroids                    |
|  |  |
|  |  |
|  |  |
| c) Does the child need admission?            | $\Box_1$ Yes                           |
|  | $\square_2$ No (lf No,Skip to Q 42)    |
|  |  |
| d) If yes, please explain                    |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

| 42. ABDOMEN-                    |  |
|---------------------------------|--|
| a) Hepatomegaly                 | $\square_1$ Normal $\square_2$ Abnormal                        |
| b) Splenomegaly                 | $\square_1$ Normal $\square_2$ Abnormal                        |
| 43. Central nervous System-     |  |
| a) Tone                         | $\square_1$ Normal $\square_2$ Increased $\square_3$ Decreased |
| b) Reflexes                     | $\Box_1$ Normal $\Box_2$ Brisk $\Box_3$ Absent                 |
| c) Power                        | □1 Normal (If Normal,Skip to (d))<br>□2 Abnormal               |
| a) If abnormal- grade the power |  |
| d) Miscellaneous problems       |  |
|                                 |  |
| e) Meds received                |  |
|                                 |  |
|                                 |  |
|                                 |  |

## Mother and Child in the Environment (MACE) – Mother Questionnaire

| 1. Date: / / /<br>Day Month Year | 2. Study Identification No. |  |  |  | - |  |  |  | ] - |  |  |  |  |
|----------------------------------|-----------------------------|--|--|--|---|--|--|--|-----|--|--|--|--|
|----------------------------------|-----------------------------|--|--|--|---|--|--|--|-----|--|--|--|--|

| 3. Name of respondent:            |                        |
|-----------------------------------|------------------------|
|                                   | First                  |
|                                   | Middle                 |
|                                   | Surname                |
|                                   | home:                  |
| 4. Phone numbers:                 | work:                  |
|                                   | cell:                  |
|                                   | other:                 |
| 5. What is your physical address? |                        |
|                                   | Road/Street            |
|                                   | City                   |
|                                   | Postal Code            |
| 6. How old are you?               | years                  |
| 7. What is your date of birth?    |                        |
|                                   | /<br>day month year    |
|                                   | □ <sub>9</sub> Refused |

| 8. What is your marital status?                      | □ <sub>1</sub> Married  |
|--|---|
|  | □ <sub>2</sub> Living together  |
|  | $\square_3$ Single  |
|  | □ <sub>4</sub> Divorced   |
|  | □ <sub>5</sub> Separated  |
|  | □ <sub>6</sub> Widow  |
|  | □ <sub>7</sub> Other  |
| 9. What is the highest grade or year of school you   | $\square_1$ Never attended school or only pre-school  |
| completed? [READ CHOICES – select only one]          | $\square_2$ Class 1 – Std 6 (Grades 1 through 8)  |
|  | □ <sub>3</sub> Std 7 – Std 9 (Grades 9 through 11- Some high school)                                      |
|  | $\Box_4$ Std 10 / Matric (Grade 12 - High school graduate)  |
|  | □ <sub>5</sub> College / technikon / university (1 year to 3 years -<br>Some college or technical school) |
|  | $\Box_6$ 4 years or more tertiary education (masters, doctorate, medical doctor)                          |
|  | $\square_7$ Other education   |
|  | □ <sub>9</sub> Refused  |
| 10. What is the highest grade or year of school your | $\square_1$ Never attended school or only pre-school  |
| baby's father completed? [READ CHOICES]              | $\square_2$ Class 1 – Std 6 (Grades 1 through 8)  |
|  | □₃ Std 7 – Std 9 (Grades 9 through 11- Some high school)  |
|  | □₄ Std 10 / Matric (Grade 12 - High school graduate)  |
|  | □ <sub>5</sub> College / technikon / university (1 year to 3 years -<br>Some college or technical school) |
|  | $\Box_6$ 4 years or more tertiary education (masters, doctorate, medical doctor)                          |
|  | $\square_7$ Other education   |
|  | □ <sub>9</sub> Refused  |
|  |   |
| 11. Interviewer's Name:                              |   |

### [INTRODUCTION: INTERVIEWER READS TO RESPONDENT]

The purpose of this questionnaire is to collect information about your pregnancy and reproductive health . If there is a question you do not want to answer, please let me know and we can skip it. All of your responses are confidential and will not shown to anyone outside the study team without your written consent. If you wish to stop the interview at anytime, please advise me. We can continue at a later time at your convenience

| A. HOUSEHOLD CONDITIONS                                    |  |  |
|--|--|--|
| 13. With whom do you live? (Fill in one or several boxes.) | $\square_1$ Spouse                                   |  |
|  | $\square_2$ Partner                                  |  |
|  | $\square_3$ Parents                                  |  |
|  | $\Box_4$ Parents-in-law                              |  |
|  | $\square_5$ Children                                 |  |
|  | $\square_6$ No one                                   |  |
|  | □ <sub>88</sub> Others, describe                     |  |
| 14. How many people including you live in your home?       | $\Box_1$ Number of people over 18 years              |  |
|  | $\square_2$ Number of people between 12 and 18 years |  |
|  | $\square_3$ Number of people between 6 and 11 years  |  |
|  | $\square_4$ Number of people under 6 years           |  |
| 15. Usual language spoken at home:                         | $\square_1$ English                                  |  |
|  | □₂ Zulu  |  |
|  | □ <sub>3</sub> Xhosa                                 |  |

|   | $\square_4$ Afrikaans  |  |  |
|---|--|--|--|
|   | □ <sub>88</sub> Other  |  |  |
|   | (Specify:)   |  |  |
| 16. How many of your children are at nursery school?  | no. of children  |  |  |
| 17. What is your yearly gross income? ( <i>Include child</i>  |  |  |  |
| support, unemployment benefits and other allowances.)   | $\square_1$ Less than R1 000   |  |  |
|   | □ <sub>2</sub> R1 001-2 000  |  |  |
|   | □ <sub>3</sub> R2 001-5 000  |  |  |
|   | □ <sub>4</sub> R5 001-10 000   |  |  |
|   | □ <sub>5</sub> R10 001–20 000  |  |  |
|   | □ <sub>6</sub> R20 001–30 000  |  |  |
|   | □ <sub>7</sub> R30 001–50 000  |  |  |
|   | □ <sub>8</sub> R50 001-75 000  |  |  |
|   | □ <sub>9</sub> R75 001–100 000   |  |  |
|   | □ <sub>10</sub> R100 000-150 000   |  |  |
|   | □ <sub>11</sub> R150 001 and above   |  |  |
| 18. What is the baby's father's yearly gross income?<br>(Include child support, unemployment benefits and | $\square_0$ No income  |  |  |
| other allowances.)  | $\square_1$ Less than R1 000   |  |  |
|   | □ <sub>2</sub> R1 001-2 000  |  |  |
|   | □ <sub>3</sub> R2 001-5 000  |  |  |
|   | □ <sub>4</sub> R5 001-10 000   |  |  |
|   | □ <sub>5</sub> R10 001–20 000  |  |  |
|   | □ <sub>6</sub> R20 001–30 000  |  |  |
|   | □ <sub>7</sub> R30 001–50 000  |  |  |
|   | □ <sub>8</sub> R50 001–75 000  |  |  |
|   | □ <sub>9</sub> R75 001–100 000   |  |  |
|   | □ <sub>10</sub> R100 000-150 000   |  |  |
|   | □ <sub>11</sub> R150 001 and above<br>□ <sub>99</sub> Don't know   |  |  |
| 19. Is it possible for your household to manage financially without your income?                          | $\square_0$ not applicable, no income received<br>$\square_1$ No<br>$\square_2$ Yes, but with difficulty |  |  |

|   | $\square_3$ Yes, without difficulty        |
|---|--|
| 20. What type of housing do you live in?                        | □1 Detached house                          |
|   | □₂ Farm                                    |
|   | □ <sub>3</sub> Semidetached                |
|   | □₄ Flat                                    |
|   | $\square_5$ Maisonette                     |
|   | $\square_6$ Terraced flat                  |
|   |  |
|   | $\Box_7$ Apartment building                |
|   | □ <sub>8</sub> Townhouse                   |
|   | □ <sub>88</sub> Other                      |
| 21. Has there been water damage, visible signs of               | □ <sub>1</sub> No                          |
| fungus/mildew or a smell of mildew in your home in the          | $\square_2$ Yes, water damage              |
| past 3 months? (Fill in one or several boxes.)                  | $\square_3$ Yes, signs of fungus and mould |
|   | $\square_4$ Yes, a smell of mildew         |
| 22. How many times have you moved in the last 3 years?          | times                                      |
| 23. What year was this house/structure originally built?        |  |
| 25. What year was this house/structure originally built:        |  |
|   | year                                       |
|   |  |
|   | □ <sub>99</sub> don't know                 |
|   | 55   |
| IF RESPONDENT IS UNSURE ASK:                                    | $\square_1$ before 1960                    |
|   |  |
| 24. Would you say it was built:                                 | $\square_2$ between 1960 and 1975          |
|   |  |
|   | $\square_3$ after 1975                     |
|   |  |
| 25. How many rooms are there in your home? (counting the        |  |
| kitchen, but not the bathroom or toilet)                        |  |
|   | rooms                                      |
| 26. How long have you lived at this address?                    |  |
| 20. How long have you lived at this address?                    |  |
|   | years                                      |
|   | years                                      |
|   | □1 less than 1 year                        |
|   |  |
| 27. Is your home drinking water from the tap or from a river or | $\square_1$ tap                            |
| dam?  | - 1  |
| dum:  | $\square_2$ river or dam                   |
|   |  |
|   | $\square_3$ well                           |
|   |  |
|   | $\square_{88}$ other, please specify:      |
|   |  |
|   |  |
| 29. Do any note live in this hame?                              |  |
| 28. Do any pets live in this home?                              | $\Box_1$ Yes                               |
|   | □ <sub>2</sub> No [If no, skip to Q31]     |
|   |  |
| 29. What kind of pets live here?                                |  |
|   |  |

| (a). a dog?  | □₁Yes                                   |  |  |
|--|---|--|--|
|  | □ <sub>2</sub> No                       |  |  |
| (b). a cat?  | □ <sub>1</sub> Yes                      |  |  |
|  | □ <sub>2</sub> No                       |  |  |
| (c). a bird?   | □ <sub>1</sub> Yes                      |  |  |
|  | □ <sub>2</sub> No                       |  |  |
| (d). any other pet(s)  | $\square_1$ Yes                         |  |  |
|  | □ <sub>2</sub> No                       |  |  |
|  | □ <sub>88</sub> please specify:         |  |  |
| 30. During the past 12 months was a furnace that forces out hot air used to heat this house? | □ <sub>1</sub> Yes                      |  |  |
| not all used to heat this house?   | $\square_2$ No [If no, skip to Q30]     |  |  |
|  | □ <sub>99</sub> don't know              |  |  |
| (a). Was this hot air furnace fueled by  | $\square_0$ not applicable – no furnace |  |  |
|  | $\square_1$ oil                         |  |  |
|  | $\square_2$ gas                         |  |  |
|  | □₃ electricity                          |  |  |
|  | $\square_{88}$ other, please specify:   |  |  |
|  | □                                       |  |  |
| 31. During the past 12 months was a room heater used to                                      | □ <sub>1</sub> Yes                      |  |  |
| heat one or more rooms in this house?  | □ <sub>2</sub> No                       |  |  |
|  | □ <sub>99</sub> don't know              |  |  |
| (a). Was this heater fueled by   | $\square_0$ not applicable – no furnace |  |  |
|  | $\square_1$ paraffin                    |  |  |
|  | $\square_2$ gas                         |  |  |
|  | □₃ electricity                          |  |  |
|  | $\square_4$ wood                        |  |  |
|  | $\square_5$ coal                        |  |  |
|  |   |  |  |

|  |                            |  | $\square_{88}$ other, pleas           | se specify:             |  |
|--|----------------------------|--|---------------------------------------|-------------------------|--|
|  |                            |  | □ <sub>88</sub> don't know            |                         |  |
|  | onths was one or more wo   | bc                                     | $\square_1$ Yes                       |                         |  |
| stoves used in this ho                                       | ouse?                      |  | $\square_2$ No                        |                         |  |
|  |                            |  | □ <sub>99</sub> Don't knov            | v                       |  |
| 33. During the past 12 mo<br>the rooms in this hou           | onths was a fireplace used | to heat                                | $\square_1$ Yes                       |                         |  |
|  | 56 :                       |  | $\square_2$ No                        |                         |  |
|  |                            |  | □ <sub>99</sub> Don't knov            | v                       |  |
| 34. During the past 12 mo<br>used to heat this hou           | onths was the stove or ove | n ever                                 | $\square_1$ Yes                       |                         |  |
| used to heat this hou  | 56 :                       |  | □₂ No                                 |                         |  |
|  |                            |  | □ <sub>99</sub> Don't knov            | V                       |  |
| 35. Is a stove or oven used f                                | or cooking in this house?  |  | □ <sub>1</sub> Yes                    |                         |  |
|  |                            |  | $\square_2$ No                        |                         |  |
|  |                            |  | □ <sub>99</sub> Don't know            |                         |  |
| (a). What is the primary source of heat for this stove or    |                            | $\square_1$ paraffin                   |                                       |                         |  |
| oven?  |                            | $\square_2$ gas                        |                                       |                         |  |
|  |                            |  | □ <sub>3</sub> electricity            |                         |  |
|  |                            |  | $\square_4$ wood                      |                         |  |
|  |                            |  | □₅ coal                               |                         |  |
|  |                            |  | $\square_{88}$ other, please specify: |                         |  |
|  |                            |  |                                       |                         |  |
|  |                            |  | □ <sub>99</sub> don't know            |                         |  |
|  | B. FAMILY SMOKING          | G CHARACT                              | ERISTICS                              |                         |  |
| 36. Does anyone who lives here smoke cigarettes in the home? |                            | □ <sub>1</sub> Yes                     |                                       |                         |  |
|  |                            | □ <sub>2</sub> No [If no, skip to Q37] |                                       |                         |  |
| If yes, for each member of t                                 | he household who smokes, p | lease com                              | plete the followin                    | g table:                |  |
|  |                            | -                                      | es smoked per<br>n the home           | Number of years smoking |  |
| a.i  | a.ii                       | a.iii a.iv                             |                                       | a.iv                    |  |

| b.  | b.                           | b.                               |                             | b.    |  |
|---|------------------------------|----------------------------------|-----------------------------|-------|--|
| с.  | с.                           | с.                               |                             | С.    |  |
| d.  | d.                           | d.                               |                             | d.    |  |
| е.  | е.                           | е.                               |                             | е.    |  |
| f.  | f.                           | f.                               |                             | f.    |  |
| g.  | g.                           | g.                               |                             | g.    |  |
|   | 1                            |                                  |                             |       |  |
|   | C. MENSTRU                   | IAL HISTOR                       | Y                           |       |  |
| 37. How old were you v  | vhen you had your first n    | nenstrual                        |                             |       |  |
| period?   |                              |                                  |                             | years |  |
|   |                              |                                  | age                         | ,     |  |
|   | veen the first day in your n |                                  |                             |       |  |
| period and the first d  | ay in your next menstrual p  | period?                          |                             | days  |  |
| 39. Were your periods re  | egular the year before you   | became                           | ₽₁ Yes                      |       |  |
| pregnant?   |                              |                                  |                             |       |  |
|   |                              |                                  |                             |       |  |
| 40. During the last year before you became pregnant, did you              |                              | $\square_1$ Yes, due to a        | another pregnancy           |       |  |
| lose your period for more than three months without being pregnant?       |                              | $\square_2$ Yes, due to $\alpha$ | other reasons               |       |  |
|   |                              | □₃ No                            |                             |       |  |
| 41. Date of first day of last menstrual period                            |                              |                                  | / /20                       |       |  |
| The ball of motody of lat   | nenotidal pened              |                                  |                             |       |  |
|   |                              |                                  | Day/month/yea               |       |  |
| 42. Did your last menstru   | al period come at the expe   | cted time                        | $\square_1$ Yes             |       |  |
|   |                              |                                  | □₂ No                       |       |  |
| 43 Are you certain ab   | out the date of first day    | , of last                        | $\square_1$ Certain         |       |  |
| 43. Are you certain about the date of first day of last menstrual period? |                              |                                  |                             |       |  |
|   |                              |                                  | $\square_2$ Uncertain       |       |  |
| 44. Describe the duratio  | n, amount of bleeding ar     | nd period                        |                             |       |  |
| pains of your last period   |                              |                                  |                             |       |  |
| (a). Was the duration   |                              | $\square_1$ Usual                |                             |       |  |
|   |                              | $\square_2$ More than usual      |                             |       |  |
|   |                              |                                  | $\square_3$ Less than usual |       |  |

| (b). Was the bleeding   | $\square_1$ Usual                                       |
|---|---|
|   | $\square_2$ More than usual                             |
|   |   |
|   | $\square_3$ Less than usual                             |
| (c). Was the pain   | □ <sub>1</sub> Usual                                    |
|   | $\square_2$ More than usual                             |
|   | $\square_3$ Less than usual                             |
|   |   |
| D. CONTRACEPTION AND REPROD   | UCTIVE HISTORY  |
| 45. Have you/your partner at any time during the last year                        | □ <sub>1</sub> Condom                                   |
| used the following methods to avoid becoming                                      | □ <sub>2</sub> Diaphragm                                |
| pregnant? (Fill in all that apply.)   |   |
|   | $\square_4$ Hormone IUD                                 |
|   | $\square_5$ Hormone injection                           |
|   | □ <sub>6</sub> Mini pill                                |
|   |   |
|   | $\square_8$ Spermicides (foam, suppositories,           |
|   | cream)  |
|   | $\square_9$ Safe period                                 |
|   | $\square_{10}$ Withdrawal                               |
|   | $\square_{11}$ No such methods                          |
| 46. If you have used the pill/mini-pill, how long have you                        | □ <sub>88</sub> Other<br>Pill                           |
| used them?  |   |
|   | $\Box_0$ never used                                     |
|   | $\square_1$ Less than one year<br>$\square_2$ 1-3 years |
|   | $\square_2$ 1-3 years $\square_3$ 4-6 years             |
|   | $\square_4$ 7-9 years                                   |
|   | $\square_5$ 10 years or more                            |
|   |   |
|   | Mini-pill   |
|   | $\square_{00}$ never used                               |
|   | $\square_6$ Less than one year                          |
|   | $\square_7$ 1-3 years                                   |
|   | $\square_8$ 4-6 years                                   |
|   | $\square_9$ 7-9 years                                   |
|   | $\square_{10}$ 10 years or more                         |
|   | [If Pill or Mini pill never used, skip to               |
| 47. If you have used the pill/mini pill have ald ware you                         | Q50]  |
| 47. If you have used the pill/mini-pill, how old were you when you first used it? | years old   |
| 48. Were you taking the pill/mini-pill during the last 4                          | $\square_1$ Yes   |
| months before this pregnancy?   | □ <sub>2</sub> No                                       |
| 49. If yes, how long before your last menstrual period did                        | weeks   |
| you stop taking the pill/mini-pill?   |   |
| 50. Was this pregnancy planned?   | $\Box_1$ Yes  |

|   | $\square_2$ No  |
|---|---|
| (a). If yes, how many months did you have regular<br>intercourse without contraception before you became<br>pregnant? | $\Box_1$ Less than I month $\Box_2$ 1-2 months $\Box_3$ 3 months or more $\Box_4$ Number of months if more than 3   |
| 52. Did you become pregnant even though you or your partner used contraceptives                                       |   |
| 53. If yes, which type of contraceptives were used? (Fill in all that apply.)   | □2       No [If no, skip to Q55]         □1       Condom         □2       Diaphragm         □3       IUD         □4       Hormone IUD         □5       Hormone injection         □6       Mini pill         □7       Pill         □9       Safe period         □10       Withdrawal         □88       Other |
| 54. If you became pregnant while using an IUD, has it now been removed?   | $\square_1 $ Yes<br>$\square_2 $ No   |
| 55. How long have you and the baby's father had a sexual relationship?  | months or<br>years  |
| 56. How often did you have sexual intercourse during the four weeks before you became pregnant ?                      | □ <sub>1</sub> Every day<br>□ <sub>2</sub> 5-6 times a week<br>□ <sub>3</sub> 3-4 times a week<br>□ <sub>4</sub> 1-2 times a week<br>□ <sub>5</sub> 1-2 times every two weeks<br>□ <sub>6</sub> Less than 1-2 times every 2 weeks<br>□ <sub>7</sub> Never   |
| 57. Have you ever been treated for infertility?   | $\Box_1 \text{ Yes}$  |
| 58. If yes, was it in connection with this pregnancy or an earlier pregnancy and what type of treatment did you have? | <ul> <li>□2 No [If no, skip to Q59]</li> <li>□1 Fallopian tube surgery</li> <li>□2 Other surgery</li> <li>□3 Medication for endometriosis</li> <li>□4 Hormone treatment</li> <li>□5 Insemination (injection of sperm)</li> <li>□6 Test-tube method</li> <li>□88 Other</li> </ul>                            |
| 59. Have you been given information about amniocentesis?  |   |
| 60. What was your blood pressure at your first antenatal visit? (Check medical card.)                                 | $\Box_2 \text{ No}$ $\Box_1 \text{ Highest}$ $\Box_2 \text{ Lowest}$  |
| 61. What did you weigh at the time you became pregnant and what do you weigh now (in kilograms)?                      | When I became pregnant kg<br>Now kg   |
| 62. How tall are you?   | cm  |
| 63. How tall is the baby's father   | cm  |
| 64. How much does the baby's father weigh?  | kg  |

| E. PREVIOUS PREGNAM   |  |  |  |  |  |
|---|--|--|--|--|--|
| 65. Have you been pregnant before?  | $\square_1$ Yes                        |  |  |  |  |
| (Include all pregnancies that ended in abortion, miscarriage  |  |  |  |  |  |
| or stillbirth)  | $\square_2$ No [If no, skip to Q67]    |  |  |  |  |
| If yes, fill in for all earlier pregnancies.  |  |  |  |  |  |
| [Include all pregnancies that ended in abortion, miscarriage or still   | birth as well as ectopic pregnancies]. |  |  |  |  |
| 66. Pregnancy No. 1   |  |  |  |  |  |
|   |  |  |  |  |  |
| (a). Year of pregnancy  |  |  |  |  |  |
|   |  |  |  |  |  |
|   | year                                   |  |  |  |  |
| (b). Pregnancy outcome  | $\square_1$ Live infant born           |  |  |  |  |
| (b). Tregnancy outcome  | $\square_2$ Spontaneous abortion       |  |  |  |  |
|   | $\square_3$ Termination of pregnancy   |  |  |  |  |
|   | $\square_4$ Ectopic pregnancy          |  |  |  |  |
|   |  |  |  |  |  |
| (c). Week of pregnancy for abortion/still birth   |  |  |  |  |  |
|   | weeks                                  |  |  |  |  |
|   | weeks                                  |  |  |  |  |
| (d). No. of months breast feeding   |  |  |  |  |  |
|   |  |  |  |  |  |
|   | months                                 |  |  |  |  |
|   |  |  |  |  |  |
| (e). Weight gain during pregnancy   |  |  |  |  |  |
|   | kg                                     |  |  |  |  |
|   |  |  |  |  |  |
| (f). Smoked during pregnancy  | $\Box_1$ Yes                           |  |  |  |  |
|   |  |  |  |  |  |
|   | $\square_2$ No                         |  |  |  |  |
|   |  |  |  |  |  |
| F. ILLNESSES AND HEALTH PROBLEMS DURING THIS PREGNANCY<br>FOR PURPOSES OF UPLOADING A SHORTENED DOCUMENT, QUESTIONS HAVE BEEN                         |  |  |  |  |  |
| DELETED FROM THIS SECTION   | COMENT, QUESTIONS HAVE BEEN            |  |  |  |  |
|   | HEALTH PROBLEMS                        |  |  |  |  |
| G. PAST AND PRESENT ILLNESSES AND HEALTH PROBLEMS<br>Do you have or have you had any of the following illnesses or health problems? If you have taken |  |  |  |  |  |
| medication (tablets, mixtures, suppositories, inhalers, creams  |  |  |  |  |  |
| health problem give the name(s) of the medication(s) and wh   |  |  |  |  |  |
| FOR PURPOSES OF UPLOADING A SHORTENEDD DOCL   |  |  |  |  |  |
| DELETED FROM THIS SECTION   |  |  |  |  |  |
| HABITS  |  |  |  |  |  |
| 67. Did your mother smoke when she was pregnant with  | $\Box_1$ Yes                           |  |  |  |  |
| you?  |  |  |  |  |  |
|   | □ <sub>2</sub> No                      |  |  |  |  |
|   | Don't know                             |  |  |  |  |
| 68. Are you exposed to passive smoking at home?   | $\Box_1$ Yes                           |  |  |  |  |
|   |  |  |  |  |  |
| CO If you have many hours a day are you averaged to   | □ <sub>2</sub> No                      |  |  |  |  |
| 69. If yes, how many hours a day are you exposed to   | hours a day                            |  |  |  |  |
| passive smoking?  |  |  |  |  |  |

| 70. Are you exposed to passive smoking at work?   | □ <sub>1</sub> Yes   |
|---|--|
|   |  |
| 71. If yes, how many hours a day are you exposed to   | □ <sub>2</sub> No<br>hours a day   |
| passive smoking?  | 10013 a day  |
| 72. Did the baby's father smoke before you became   | $\Box_1$ Yes   |
| pregnant?   |  |
|   | $\square_2$ No   |
| 73. Does he smoke now?  | $\square_1$ Yes  |
|   | □ <sub>2</sub> No  |
| 74. Have you ever smoked?   | □ <sub>1</sub> Yes   |
|   | $\square_2$ No (proceed question 104)  |
| 75. Do you smoke now (after you became pregnant)?   |  |
|   | $\square_2$ Sometimes  |
|   | □ <sub>3</sub> Daily   |
| (a). If yes, how many   | cigarettes per week  |
| 76. Did you smoke during the last 3 months before you   | $\square_1$ No   |
| became pregnant this time?  | $\square_2$ Sometimes  |
|   | $\square_3^{-}$ Daily  |
| (a). If yes, how many   | cigarettes per week  |
|   | cigarettes per day   |
| 77. How old were you when you started to smoke on a daily basis?  | years  |
| 78. Have you stopped smoking completely?  | □ <sub>1</sub> Yes   |
|   | □2 No  |
|   |  |
| 79 If yes how old were you when you stopped smoking?  |  |
| 79. If yes, how old were you when you stopped smoking?<br>80. If you stopped smoking after you became pregnant, in  | years  |
| 80. If you stopped smoking after you became pregnant, in  |  |
| <ul><li>80. If you stopped smoking after you became pregnant, in which week of pregnancy did you stop?</li><li>For each of the following fluids, indicate whether you consum</li></ul>  | years<br>week of pregnancy<br>ed them <b>before this pregnancy</b> and the   |
| <ul> <li>80. If you stopped smoking after you became pregnant, in which week of pregnancy did you stop?</li> <li>For each of the following fluids, indicate whether you consum amount (number of cups/glasses) per day (1 mug = 2 cups, 1</li> </ul>  | years<br>week of pregnancy<br>ed them <b>before this pregnancy</b> and the   |
| <ul> <li>80. If you stopped smoking after you became pregnant, in which week of pregnancy did you stop?</li> <li>For each of the following fluids, indicate whether you consum amount (number of cups/glasses) per day (1 mug = 2 cups, 1 large plastic bottle (1.5 litres) = 12 cups)</li> </ul>   | years<br>week of pregnancy<br>ed them <b>before this pregnancy</b> and the<br>small plastic bottle (0.5 litre) = 4 cups, 1   |
| <ul> <li>80. If you stopped smoking after you became pregnant, in which week of pregnancy did you stop?</li> <li>For each of the following fluids, indicate whether you consum amount (number of cups/glasses) per day (1 mug = 2 cups, 1</li> </ul>  | years<br>week of pregnancy<br>ed them <b>before this pregnancy</b> and the   |
| <ul> <li>80. If you stopped smoking after you became pregnant, in which week of pregnancy did you stop?</li> <li>For each of the following fluids, indicate whether you consum amount (number of cups/glasses) per day (1 mug = 2 cups, 1 large plastic bottle (1.5 litres) = 12 cups)</li> </ul>   | years<br>week of pregnancy<br>ed them <b>before this pregnancy</b> and the<br>small plastic bottle (0.5 litre) = 4 cups, 1   |
| <ul> <li>80. If you stopped smoking after you became pregnant, in which week of pregnancy did you stop?</li> <li>For each of the following fluids, indicate whether you consum amount (number of cups/glasses) per day (1 mug = 2 cups, 1 large plastic bottle (1.5 litres) = 12 cups)</li> <li>81. Filter coffee (caffienated)</li> <li>(a). If yes, number of cups per day (see conversion</li> </ul>   | years<br>week of pregnancy<br>ed them <b>before this pregnancy</b> and the<br>small plastic bottle (0.5 litre) = 4 cups, 1   |
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|   | $\square_2$ No            |
|---|---------------------------|
| (a). If yes, number of cups per day             | cups                      |
| 86. Herbal tea                                  | □ <sub>1</sub> Yes        |
|   | □ <sub>2</sub> No         |
| (a). If yes, number of cups per day             | cups                      |
| 87. Fizzy drinks (Coke, Sprite, etc)            | $\square_1$ Yes           |
|   |                           |
| (a). If yes, number of cups per day             | □2 No<br>cups             |
| 88. Diet fizzy drinks                           | $\Box_1 \text{ Yes}$      |
|   |                           |
|   | □ <sub>2</sub> No         |
| (a). If yes, number of cups per day             | cups                      |
| 89. Tap water                                   | $\Box_1$ Yes              |
|   | □ <sub>2</sub> No         |
| (a). If yes, number of cups per day             | cups                      |
| 90. Bottled water                               | $\square_1$ Yes           |
|   | □ <sub>2</sub> No         |
| (a). If yes, number of cups per day             | cups                      |
| 91. Pure fruit juices (100%)                    | $\square_1$ Yes           |
|   | □ <sub>2</sub> No         |
| (a). If yes, number of cups per day             | cups                      |
| 92. Fruit juice blends                          | $\square_1 $ Yes          |
|   |                           |
| (a). If yes, number of cups per day             |                           |
| 93. Fruit juice concentrate                     | cups                      |
|   |                           |
|   | □ <sub>2</sub> No         |
| (a). If yes, number of cups per day<br>94. Milk | cups                      |
| 94. MIIK  | $\Box_1$ Yes              |
|   | $\square_2$ No            |
| (a). If yes, number of cups per day             | cups                      |
| 95. Yogurt, all types                           | $\Box_1$ Yes              |
|   | $\square_2$ No            |
| (a). If yes, number of cups per day             | cups                      |
| 96. Yogurt with active Lactobacillus, all types | $\Box_1$ Yes              |
|   | □ <sub>2</sub> No         |
| (a). If yes, number of cups per day             |                           |
| 97. Other sour milk                             | $\Box_1$ Yes              |
|   |                           |
| (a). If yes, number of cups per day             | □ <sub>2</sub> No<br>cups |
| 98. Other                                       | $\Box_1 \text{ Yes}$      |
|   |                           |
|   | □ <sub>2</sub> No         |

| (a). If yes, number of cups per day   | cups   |
|---|--|
|   |  |
|   |  |
| 99. Have you ever consumed alcohol?   | □ <sub>1</sub> Yes   |
|   | $\square_2$ No [If no, skip all]   |
| Alcohol units are used to compare the different types of alcoh<br>pure alcohol) is equivalent to:<br>1 bottle/can energy drink or cider<br>1 glass (1/3 liter) of beer<br>1 wine glass red or white wine<br>1 wine glass sherry or other fortified wine<br>1 snaps glass spirits or liqueur | olic beverages. 1 alcohol unit (= 1.5 cl.  |
| 100. How often did you consume alcohol in the 3 months before you became pregnant?  | □ Approximately 6-7 time a week<br>□ Approximately 4-5 times a week<br>□ approximately 2-3 times a week<br>□ 4 approximately once a week<br>□ 5 approximately 1-3 times a month<br>□ 6 less than once a month<br>□ 7 Never   |
| 101. How often do you consume alcohol during this pregnancy?  | □ <sub>1</sub> Approximately 6-7 time a week<br>□ <sub>2</sub> Approximately 4-5 times a week<br>□ <sub>3</sub> approximately 2-3 times a week<br>□ <sub>4</sub> approximately once a week<br>□ <sub>5</sub> approximately 1-3 times a month<br>□ <sub>6</sub> less than once a month<br>□ <sub>7</sub> Never          |
| 102. What type of alcohol do you usually drink? (Fill in one or several boxes.)   | □ <sub>1</sub> Light beer<br>□ <sub>2</sub> Beer<br>□ <sub>3</sub> Red wine<br>□ <sub>4</sub> White wine<br>□ <sub>5</sub> Low alcohol sodas<br>□ <sub>6</sub> Fortified wines ( <i>sherry, port wine,</i><br><i>Madeira</i> )/ □ <sub>7</sub> Spirits ( <i>vodka, gin,</i><br><i>snaps, cognac, whisky, liqueur</i> ) |
| 103. Did you drink 5 units or more at least once during the last 3 months before this pregnancy?  | $\Box_1$ Several times per week $\Box_2$ Once a week $\Box_3$ 1-3 times a month $\Box_4$ Less than once a month $\Box_5$ Never   |
| 104. Did you drink 5 units or more at least once during this pregnancy?   | $\Box_1$ Several times per week $\Box_2$ Once a week $\Box_3$ 1-3 times a month $\Box_4$ Less than once a month $\Box_5$ Never   |
| 105. How many units of alcohol did you usually drink when<br>you consume alcohol in the last 3 months before<br>pregnancy?  | □ <sub>1</sub> 10 or more<br>□ <sub>2</sub> 7-9<br>□ <sub>3</sub> 5-6<br>□ <sub>4</sub> 3-4<br>□ <sub>4</sub> 1-2<br>□ <sub>5</sub> Less that 1  |

| 106. How many units of alcohol do you usually drink when you consume alcohol during this pregnancy? | □ <sub>1</sub> 10 or more<br>□ <sub>2</sub> 7-9<br>□ <sub>3</sub> 5-6<br>□ <sub>4</sub> 3-4<br>□ <sub>4</sub> 1-2<br>□ <sub>5</sub> Less that 1 |
|---|---|
|   |   |