**CHILD STUDY**

**REQUEST FOR DATA Date: 17/7/2018\_\_\_\_\_\_\_\_\_\_**

**Please complete fully and submit to Dr. Diana Lefebvre, CHILD Research Manager (**[**lefeb@mcmaster.ca**](mailto:lefeb@mcmaster.ca)**).**

**The request will be reviewed at the National Coordinating Centre, and any queries that arise will be discussed with you. The request will then be forwarded to our Data Manager who will extract the requested data and again we will review this at NCC to ensure it is what you require. The Data Manager may communicate directly with you to clarify your needs.**

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| **1** | ***Person making request:***  Hind Sbihi & Darlene Dai |
| **2** | ***Purpose of request:***  (a) Data for grant application 🞎  (b) Data for QA / QC only 🞎  (c) Data for exploratory analysis 🞎  (d) Data for definitive analysis **⌧** |
| **3** | ***Data requested:***     |  |  |  |  | | --- | --- | --- | --- | | **Event** | **Questionnaire or Data Form** | **Specific questions** | **Justification** | | *e.g., 18 Week Prenatal* | *e.g., Q92HENV18W* | *e.g., Q1,2,3-5.9(indicate whether you want subquestions)* | *Looking at how many child sleep in carpeted bedrooms* | | **Mother Prenatal Medication** | Q95MMED18W | All questions | Variables needed to update existing mothers’ use of antibiotics during pregnancy | | |  |  | | --- | --- | | |  | | --- | | [**Child Birth Chart Data - General**](https://research.healthdiary.ca/CHILDStudy/Guest/Product.aspx?IDS=5g%2bSxN8v9pGdvtFHuLQACQ%3d%3d) | | | Q107CBIRTHCD | Q13.3\* | Variables needed to update antibiotics use at birth | | |  |  |  | | --- | --- | --- | | [https://research.healthdiary.ca/CHILDStudy/Client_Images/Products/Small/Blank.gif](https://research.healthdiary.ca/CHILDStudy/Guest/Product.aspx?IDS=gUiw2AbAK0vjdc2dl9qUUA%3d%3d) | |  | | --- | | [**Child Medications at Birth**](https://research.healthdiary.ca/CHILDStudy/Guest/Product.aspx?IDS=gUiw2AbAK0vjdc2dl9qUUA%3d%3d) | | | Q213 CMEDBTH | All questions | Obtain Antibiotics nomenclature and dose | | [**Child medication 3 months**](https://research.healthdiary.ca/CHILDStudy/Guest/Product.aspx?IDS=ansuTTISJs3RHwCDs6rhwA%3d%3d) | Q148CMED3M | All questions | Obtain Antibiotics nomenclature and dose | | |  |  | | --- | --- | | |  | | --- | | [**Child medication 6 months**](https://research.healthdiary.ca/CHILDStudy/Guest/Product.aspx?IDS=ansuTTISJs3RHwCDs6rhwA%3d%3d) | | | Q225CMED6M | All questions | Obtain Antibiotics nomenclature and dose | | **Child Medication 1 Year** | Q129CMED1Y | All questions | Obtain Antibiotics nomenclature | | |  |  |  |  | | --- | --- | --- | --- | | **Child Medication 18 Months**   |  | | --- | |  | |  | |  | | | Q189CMED18M | All questions | Obtain Antibiotics nomenclature | | **Child Medication 2 Years** | Q222CMED2Y | All questions | Obtain Antibiotics nomenclature | | **Child Medication 2.5 Years** | Q304CMED2HY | All questions | Obtain Antibiotics nomenclature | | **Child Medication 3 Years** | Q367CMED3Y | All questions | Obtain Antibiotics nomenclature | | **Child Medication 4 Years** | Q382CMED4Y | All questions | Obtain Antibiotics nomenclature | | |  |  | | --- | --- | | **Child Medication 5 Years**   |  | | --- | |  | | | [Q384CMED5Y](https://research.healthdiary.ca/CHILDStudy/Guest/Product.aspx?IDS=ZmUQut8CW3ejd45cSHRe6w%3d%3d) | All questions | Obtain Antibiotics nomenclature | | **Child Health 2 Years** | Q299CHLTH2Y | Q31\* | Update information on antibiotics | | **Child Health 2.5 Years** | Q302CHLTH2Y | Q31\* | Update information on antibiotics use | | **Child Health 3 Years** | Q377CHLTH3Y | Q29\* | Update information on antibiotics use | | **Child Health 4 Years** | Q404CHLTH4Y | Q31\* | Update information on antibiotics use | | **Child Health 5 Years** | Q452CHLTH5Y | Q33\* | Update information on antibiotics use | | **Child 3 Year Clinical Assessment** | Q378CHCLA3Y | Q40 | Date of clinical assessment to obtain child’s age at asthma diagnosis | | **Child 5 Year Clinical Assessment** | Q454CHCLA5Y | Q49 | Date of clinical assessment to obtain child’s age at asthma diagnosis |   \*denotes questions that include all the subquestions |
| **4** | ***Data requested from which sites and cohorts (check all that apply):***  **⌧ Vancouver ⌧ Edmonton ⌧ Winnipeg ⌧ Toronto**  **❑ Vanguard cohort only ⌧ General cohort only ❑ Vanguard + General** |
| **5** | ***Outline of Analysis Plan:***  Cox regression model will be used to analyze the association between antibiotic exposure and events (Atopy + Wheeze, or Asthma), with adjustment for confounders.  Time of event is defined as the diagnosis time from specialist-physician. Follow-up was censored at drop-out from the study, death or end of study period.  Antibiotics exposure is a time varying predictor, which requires the assessment of antibiotics use over time.  Sub-analyses will investigate a dose-response relationship, which requires the dose and type of antibiotics received over time |
| **6** | ***Collaborators for this analysis:***  Darlene Dai, Hind Sbihi, Mamun Abdullah, David Patrick, Stuart Turvey & CHILD site leaders and Investigators |
| **7** | ***Intended use of this analysis:***  **Here check explanation on how this request/work fits within PP91**    In the context of the environmental factors affecting gut microbiome, antibiotics use is a prominent factor affecting the structure and maturity of the intestinal microbiota and subsequently the development of asthma.  Our collaborators at the BCCDC have investigated the association between antibiotics and asthma. At the population level, ecological trends were found showing attributable risks (Asthma) associated with reduction in Antibiotics use.  We plan to use CHILD birth cohort to explore whether similar observational trends can be replicated. By using the entire CHILD General cohort and asthma diagnosis at different ages, we can increase sample size, the period of observation and adjust for covariates and confounders that an ecological study is unable to do by design. |
| **8** | ***Has proposal for abstract or paper been submitted to the Publications Committee?***  Yes **⌧**  No 🞎 Not applicable 🞎  ***If Yes, please provide the Publication Proposal number and approval date:***  ***PP#\_93\_\_\_\_ Approval Date: \_\_\_\_21/06/2016\_\_\_\_\_\_\_\_\_\_\_\_\_\_***  ***dd/mm/yyyy*** |
| **9** | ***What format do you want the data in?***  CSV **⌧**  Excel 🞎 |
| **10** | ***Any further details regarding this data request?***  Antibiotics use data up until age 1 was provided in 2014 for the work published in Science of Translational Medicine. Expanding on this work, as outlined in PP93, we need to update the antibiotics use information to the cohort to gather information up until age 5. |