

# Exploring CHILD Study Data in CHILDb

The screenshot shows the CHILDb website interface. At the top left is the CHILD logo with the tagline 'CONCORD STUDY'. Navigation links include 'My Projects', 'CHILDb', and 'Documentation'. On the top right are 'Account', 'Notifications (44)', 'Contact Us', and 'Log Out'. A dropdown menu is open under 'CHILDb', listing 'Browse CHILDb', 'Request Data', 'Download Data', and 'Publish Research'. A red callout box with white text says: 'First, select one of the 'Browse CHILDb' options to navigate to the Database page'. Two red arrows point from this box to the 'Browse CHILDb' menu item and the 'Browse CHILDb' button on the main page. The main page features a large heading 'Welcome to CHILDb' and a sub-heading 'Request data from the largest general population-based longitudinal birth cohort study in Canada'. Below this are four main action buttons: 'Browse CHILDb' (with a magnifying glass icon), 'Request Data' (with a document icon), 'My Projects' (with a folder icon), and 'Publish Research' (with a document icon). To the right is a 'Latest News' section with four news items, each in a box with a date and title. At the bottom right is a 'Contact Us' button. The footer states 'The CHILDb website is managed by: The Brinkman Lab at Simon Fraser University'.

CHILD  
CONCORD STUDY

My Projects CHILDb Documentation

Account Notifications (44) Contact Us Log Out

Browse CHILDb  
Request Data  
Download Data  
Publish Research

## Welcome to CHILDb

Request data from the largest general population-based longitudinal birth cohort study in Canada

**Browse CHILDb**  
Search CHILD Study questions, derived variables, and samples

**Request Data**  
Create a Concept Proposal to request access to CHILD Study data

**My Projects**  
View your concept proposals, data exports, and publication proposals

**Publish Research**  
Request to publish CHILD Study research with a Publication Proposal

### Latest News

November 20th, 2024  
**New Database Page Interface Released**

November 20th, 2024  
**8-Year Data Released**

November 8th, 2023  
**New CHILDb Landing Page**

November 8th, 2023  
**New 'My Projects' Section in CHILDb**

September 16th, 2023  
**Upgraded Search and Response Charts**

Questions? Feature request? Found a bug?  
Contact us using the button below

Contact CHILDb

The CHILDb website is managed by:  
The Brinkman Lab at Simon Fraser University

# Using the Database Page: Overview

**Variable Filters**

**Cohort**  
 General n=3,263  
1 more

**Type**

- Derived Variables 202
- Questionnaire 21,162
- Analytes 862
- Omics 227
- CANUE 2,179
- Skinprick 501

**Limit by Category**  
Search or select Visits to view Categories that match your filters.  
Load All Categories

**Visit**

- Enrollment 229
- Prenatal 18 Weeks 1,838
- Father Prenatal 400
- Prenatal 36 Weeks 465
- Birth 1,120
- 3 Months 3,290
- 6 Months 1,363
- 1 Year 3,639
- 18 Months 1,108
- 2 Years 1,206
- 2.5 Years 969
- 3 Years 2,233
- 4 Years 1,593
- 5 Years 2,909
- 8 Years 2,218

12 more

Account Notifications (44) Contact Us Log Out

Hide Filters

Enter keywords of interest (i.e. "allergy" or "CBIRTHCDQ").  
Search Options  
Visualize

**Concept Proposal Menu**  
Create or Modify Concept Proposal  
0 Added Variables  
View My Variables Create Concept

Welcome to the CHILDb Database page!  
Use the filters in the sidebar or the search tool above to find CHILDb Study variables.  
View the tutorials to learn more about using this page, including using Concept Proposals for data requests.

Tutorials

The Database page is made up of four sections: **Variable Filters** (sidebar), **Search** (top-middle), the **Concept Proposal Menu** (top-right; used for building data requests), and the **Variables Table**.

# Using the Database Page: Variable Filters

The screenshot shows the CHILD database interface. At the top, there are navigation links: My Projects, CHILDb, Documentation, Account, Notifications (49), Contact Us, and Log Out. The main content area is titled "Variable Filters" and is divided into several sections:

- Cohort:** A filter for the "General" cohort, showing n=3,263 and a link to "1 more".
- Type:** A list of variable types with counts in white boxes:
  - Derived Variables: 202
  - Questionnaire: 21,162 (selected)
  - Analytes: 662
  - Omics: 227
  - CANUE: 2,179
  - Skinprick: 501
- Limit by Category:** A section for searching or selecting visits to view categories that match filters, with a "Load All Categories" button.
- Visit:** A list of visits with counts in white boxes:
  - Enrollment: 36
  - Prenatal 18 Weeks: 1,580
  - Father Prenatal: 283
  - Prenatal 36 Weeks: 314
  - Birth: 948
  - 3 Months: 2,613
  - 6 Months: 1,171
  - 1 Year: 2,784
  - 18 Months: 956
  - 2 Years: 1,043
  - 2.5 Years: 818
  - 3 Years: 1,938
  - 4 Years: 1,442
  - 5 Years: 2,506
  - 8 Years: 2,178

Below the filters is a table of variables. The table has columns for Variable Description, Category, Visit, Variable Type, Response Distribution, and CHILDb ID. The first few rows are:

Variable Description	Category	Visit	Variable Type	Response Distribution	CHILDb ID
Baby's sex	Child Birth Chart Data	Birth	Questionnaire	<a href="#">List</a>	1136
Total number of pregnancies, including present pregnancy (Gravida)	Child Birth Chart Data	Birth	Questionnaire	<a href="#">List</a>	1136
Term deliveries	Child Birth Chart Data	Birth	Questionnaire	<a href="#">List</a>	1136
Preterm deliveries	Child Birth Chart Data	Birth	Questionnaire	<a href="#">List</a>	1136
Abortions (both surgical abortions and miscarriages)	Child Birth Chart Data	Birth	Questionnaire	<a href="#">List</a>	1136
Living children	Child Birth Chart Data	Birth	Questionnaire	<a href="#">List</a>	1136
What conditions did the mother have pre-labour? 12 variables	Child Birth Chart Data	Birth	Questionnaire	N/A	N/A
Did the mother have any anesthetics during delivery?	Child Birth Chart Data	Birth	Questionnaire	<a href="#">List</a>	1137
If yes, indicate type of anesthetics 7 variables	Child Birth Chart Data	Birth	Questionnaire	N/A	N/A
Did the mother have analgesics/narcotics during delivery?	Child Birth Chart Data	Birth	Questionnaire	<a href="#">List</a>	1137
If yes, indicate type of analgesics/narcotics: 4 variables	Child Birth Chart Data	Birth	Questionnaire	N/A	N/A
Did the mother have any Oxytocin-like or related drugs which stimulate contractions (e.g., Oxytocin... view more	Child Birth Chart Data	Birth	Questionnaire	<a href="#">List</a>	113725

The **Variable Filters** menu allows you to display variables according to selected **Cohorts**, **Types**, **Visits**, and **Categories**. The numbers in the white boxes beside the Type, Visit, and Category filters indicate the number of variables in the database for each option, while those beside the Cohort filters indicate the number of eligible participants in the cohort.

Results will appear automatically once a **Type**, **Visit**, or **Category** has been selected, or a search term is submitted. Here, the Questionnaire Type has been selected (the General cohort is selected by default). The red circular button at the top-right of the menu will revert the Variable Filter settings back to the default.

# Using the Database Page: Variable Filters

The screenshot shows the CHILD database interface. At the top, there are navigation links: My Projects, CHILDb, Documentation, Account, Notifications (44), Contact Us, and Log Out. The main content area is divided into several sections:

- Variable Filters:** A sidebar on the left with a red arrow pointing to the 'General' filter under the 'Cohort' section. Below it, the 'Type' section has a red arrow pointing to the 'Questionnaire' filter. The 'Limit by Category' section has a red arrow pointing to the 'Child Health' filter. The 'Visit' section has a red arrow pointing to the '1 Year' filter.
- Table:** A table with columns: Select all, Variable Description, Category, Visit, Variable Type, Response Distribution, and CHILDb ID. The 'Category', 'Visit', and 'Variable Type' columns are highlighted with a red box. The table contains 11 rows of variables related to colds.

<input type="checkbox"/> Select all	Variable Description	Category	Visit	Variable Type	Response Distribution	CHILDb ID
<input type="checkbox"/>	Has your child had any colds in the last 6 months?	Child Health	1 Year	Questionnaire		1233
<input type="checkbox"/>	How many colds has your child had?	Child Health	1 Year	Questionnaire		1233
<input type="checkbox"/>	How old was your child when s/he started the first cold during the last 6 months? (Months)	Child Health	1 Year	Questionnaire		1233
<input type="checkbox"/>	How long did this cold last?	Child Health	1 Year	Questionnaire		1233
<input type="checkbox"/>	What symptoms did your child have during their first cold within the last 6 months? <a href="#">11 variables</a>	Child Health	1 Year	Questionnaire	N/A	N/A
<input type="checkbox"/>	Was your child given any medication(s) for their first cold within the last 6 months?	Child Health	1 Year	Questionnaire		1234
<input type="checkbox"/>	Did your child have a second cold during this period?	Child Health	1 Year	Questionnaire		1234
<input type="checkbox"/>	Second cold during last 6 months <a href="#">2 variables</a>	Child Health	1 Year	Questionnaire	N/A	N/A
<input type="checkbox"/>	What symptoms did your child have during their second cold within the last 6 months? <a href="#">11 variables</a>	Child Health	1 Year	Questionnaire	N/A	N/A
<input type="checkbox"/>	Was your child given any medication(s) for their second cold within the last 6 months?	Child Health	1 Year	Questionnaire		1236
<input type="checkbox"/>	Did your child have a third cold during this period?	Child Health	1 Year	Questionnaire		1236

Category filters (middle-left) will appear once a Visit filter has been selected, after clicking the 'Load All Categories' button (see previous picture), or after submitting a search query. In this example, the **Child Health** Questionnaire has been selected from the **1 Year** Visit and **General** Cohort.

The Cohort column is not displayed by default (unless multiple cohorts are being queried), but can be displayed, along with additional columns, using the **Columns** button above the table.

# Using the Database Page: Search

The screenshot shows the CHILD database search interface. At the top, there are navigation links for 'My Projects', 'CHILddb', and 'Documentation'. On the right, there are links for 'Account', 'Notifications' (44), 'Contact Us', and 'Log Out'. The main search area is titled 'Variable Filters' and includes a search bar with the text 'allergy'. Below the search bar, it indicates '1167 variables returned for 'allergy'' and provides a 'Download Search Results' button. The search results are displayed in a table with the following columns: 'Select all', 'Variable Description', 'Category', 'Visit', 'Variable Type', 'Response Distribution', and 'CHILddb ID'. The table contains several rows of search results, each with a checkbox and a 'Visualize' button. The search results are highlighted with yellow text for the word 'allergy'.

<input type="checkbox"/> Select all	Variable Description	Category	Visit	Variable Type	Response Distribution	CHILddb ID
<input type="checkbox"/>	Probable clinical IgE-mediated peanut allergy (3 Years)	Clinical IgE-mediated Allergy	3 Years	Derived Variable	<input type="button" value="Lid"/>	193
<input type="checkbox"/>	Aeroallergy sensitization	Skin prick	8 Years	Derived Variable	<input type="button" value="Lid"/>	197
<input type="checkbox"/>	Have you had skin allergy symptoms (ECZEMA, HIVES, ALLERGY RASH) in the last 12 months?	Father Health	Father Prenatal	Questionnaire	<input type="button" value="Lid"/>	1071
<input type="checkbox"/>	Physician Diagnoses - In your opinion, does the child have any of the following? 8 variables	Child Clinical Assessment	8 Years	Questionnaire	N/A	N/A
<input type="checkbox"/>	Did your child have any symptoms of a food allergy in the last 12 months?	Child Health	8 Years	Questionnaire	<input type="button" value="Lid"/>	1590
<input type="checkbox"/>	Food allergy diagnosed by a healthcare professional 3 variables	Child Health	8 Years	Questionnaire	N/A	N/A
<input type="checkbox"/>	Has your child EVER had repeated allergy symptoms to any of the following? 9 variables	Child Health	8 Years	Questionnaire	N/A	N/A
<input type="checkbox"/>	Allergy Skin Testing 3 variables	Child Health	8 Years	Questionnaire	N/A	N/A
<input type="checkbox"/>	Allergy Blood Testing 3 variables	Child Health	8 Years	Questionnaire	N/A	N/A
<input type="checkbox"/>	How many UNSCHEDULED visits occurred for the following reasons? 15 variables	Child Health	8 Years	Questionnaire	N/A	N/A

The **Search** section allows you to search for variables in the database using keywords or phrases. Returned results will be highlighted by default with any words that match your search. Along with the **Variable Description**, you can also search **Category**, **CHILddb ID**, or **External Xref** (external resource cross-references, such as Health Diary codes or CANUE IDs).

You can also download a CSV file of your search results using the **Download Search Results** button.

# Using the Database Page: Search

The screenshot shows the CHILD database search interface. At the top, there are navigation links for 'My Projects', 'CHILddb', and 'Documentation'. On the right, there are links for 'Account', 'Notifications (49)', 'Contact Us', and 'Log Out'. The main search area has a search bar containing 'allergy' and a search button. Below the search bar, it indicates '3045 variables returned for 'allergy'' and provides options to 'Download Search Results' and 'Columns'. A 'Search Options' menu is open, showing settings for 'Strict Search', 'Search Suggestions', 'Include Headers', 'Target Headers', and 'Text Highlighting'. The search results are displayed in a table with columns for 'Variable Description', 'Category', 'Response Distribution', and 'CHILddb ID'. The table lists various allergen-related variables, such as 'Food or inhalant allergens (atopy) - Positive skin prick test to at least one food or inhalant aller...', with their respective categories and response distributions.

Select all	Variable Description	Category	Response Distribution	CHILddb ID
<input type="checkbox"/>	Food or inhalant allergens (atopy) - Positive skin prick test to at least one food or inhalant aller... <a href="#">view more</a>	Skin prick		165
<input type="checkbox"/>	Food allergens - Positive skin prick test to at least one food allergen - positive skin prick test (... <a href="#">view more</a>	Skin prick	1 Year	165
<input type="checkbox"/>	Inhalant allergens - Positive skin prick test to at least one inhalant allergen - positive skin prick test (... <a href="#">view more</a>	Skin prick	1 Year	165
<input type="checkbox"/>	Food or inhalant allergens (atopy) - Positive skin prick test to at least one food or inhalant aller... <a href="#">view more</a>	Skin prick	3 Years	169
<input type="checkbox"/>	Food allergens - Positive skin prick test to at least one food allergen - positive skin prick test (... <a href="#">view more</a>	Skin prick	3 Years	169
<input type="checkbox"/>	Inhalant allergens - Positive skin prick test to at least one inhalant allergen - positive skin prick test (... <a href="#">view more</a>	Skin prick	3 Years	169
<input type="checkbox"/>	Food or inhalant allergens (atopy) - Positive skin prick test to at least one food or inhalant aller... <a href="#">view more</a>	Skin prick	5 Years	174
<input type="checkbox"/>	Food allergens - Positive skin prick test to at least one food allergen - positive skin prick test (... <a href="#">view more</a>	Skin prick	5 Years	174
<input type="checkbox"/>	Inhalant allergens - Positive skin prick test to at least one inhalant allergen - positive skin prick test (... <a href="#">view more</a>	Skin prick	5 Years	174
<input type="checkbox"/>	Food or inhalant allergens (atopy) - Positive skin prick test to at least one food or inhalant aller... <a href="#">view more</a>	Skin prick	Father Prenatal	187
<input type="checkbox"/>	Food allergens - Positive skin prick test to at least one food allergen (father) <a href="#">view more</a>	Skin prick	Father Prenatal	188

Search behaviour can be adjusted using the **Search Options** menu. By turning off **Strict Search**, the database will be queried for terms *similar* to your search, not just the literal term. It can be especially useful when submitting long queries, or queries with multiple keywords. In this example, the same search term as before ('allergy') returned 3045 results compared to 1167 with Strict Search on because other terms like 'allergen' were hit.

You can also use the Search Options menu to toggle **Search Suggestions** and **Text Highlighting**, or choose to **focus on or exclude Variable Headers** (headers explained on next slide). The red circular button at the top-right of the menu will revert your search settings back to the default.

# Using the Database Page: Variables Table

The screenshot shows the CHILD Concept Study database interface. At the top, there are navigation links for 'My Projects', 'CHILddb', and 'Documentation'. On the right, there are links for 'Account', 'Notifications (49)', 'Contact Us', and 'Log Out'. The main content area is titled 'Variable Filters' and includes a search bar with the query 'allergy'. Below the search bar, it indicates '1167 variables returned for 'allergy'' and provides options to 'Download Search Results' and 'Columns'. The interface is divided into several filter sections: 'Cohort' (General, n=3,263), 'Type' (Derived Variables, Questionnaire, Analytes, Omics, CANUE, Skinprick), 'Limit by Category' (Child Clinical Assessment, Child External Allergy Results, Child Health), and 'Visit' (Enrollment, Prenatal, Birth, 3 Months, 6 Months, 1 Year). The main table displays a list of variables with columns for 'Select all', 'Variable Description', 'Category', 'Visit', 'Variable Type', 'Response Distribution', and 'CHILddb ID'. Three variables are highlighted with red numbers 1, 2, and 3. Variable 1 is 'Probable clinical IgE-mediated peanut allergy (3 Years)'. Variable 2 is 'Food allergy diagnosed by a healthcare professional less'. Variable 3 is 'Clinical IgE-mediated allergy'. The 'Response Distribution' column for variable 3 shows a button labeled '3.' and 'Ltd'.

<input type="checkbox"/> Select all	Variable Description	Category	Visit	Variable Type	Response Distribution	CHILddb ID
<input checked="" type="checkbox"/> 1.	Probable clinical IgE-mediated peanut allergy (3 Years)	Clinical IgE-mediated allergy	3 Years	Derived Variable	3. Ltd	193
<input type="checkbox"/>	Aeroallergy sensitization	Skin prick	8 Years	Derived Variable	Ltd	197
<input type="checkbox"/>	Have you had skin allergy symptoms (ECZEMA, HIVES, ALLERGY RASH) in the last 12 months?	Father Health	Father Prenatal	Questionnaire	Ltd	1071
<input type="checkbox"/>	Physician Diagnoses - In your opinion, does the child have any of the following? 8 variables	Child Clinical Assessment	8 Years	Questionnaire	N/A	N/A
<input type="checkbox"/>	Did your child have any symptoms of a food allergy in the last 12 months?	Child Health	8 Years	Questionnaire	Ltd	1590
<input checked="" type="checkbox"/> 2.	Food allergy diagnosed by a healthcare professional less	Child Health	8 Years	Questionnaire	N/A	N/A
<input type="checkbox"/>	Was a food allergy diagnosed by a health care professional?	Child Health	8 Years	Questionnaire	Ltd	1593
<input type="checkbox"/>	Specify type of healthcare professional consulted	Child Health	8 Years	Questionnaire	Ltd	1593
<input type="checkbox"/>	If other, specify	Child Health	8 Years	Questionnaire	Ltd	1593
<input type="checkbox"/>	Has your child EVER had repeated allergy symptoms to any of the following: 9 variables	Child Health	8 Years	Questionnaire	N/A	N/A
<input type="checkbox"/>	Allergy Skin Testing 3 variables	Child Health	8 Years	Questionnaire	N/A	N/A

The **Variables Table** displays all variables (and associated metadata) that match your search query and selected variable filters. It also contains functionality for adding variables to data requests and viewing response distributions. Below are explanations for some of the key concepts and features of the Variables Table:

- (1) The **checkboxes** in the left-most column are used to select individual variables or entire variable groups. Selected variables can be saved to a Concept Proposal as part of a data request.
- (2) Variables can also be organized into **Variable Groups** that contain multiple variables. By clicking on the black '+' button under the header, you can expand the group to view all contained variables, as shown here in the black box.
- (3) You can view the **distribution of responses** for a variable by clicking on the button in the Response Distribution column. This will bring up a window that shows a bar chart or continuous plot depending on the data type.