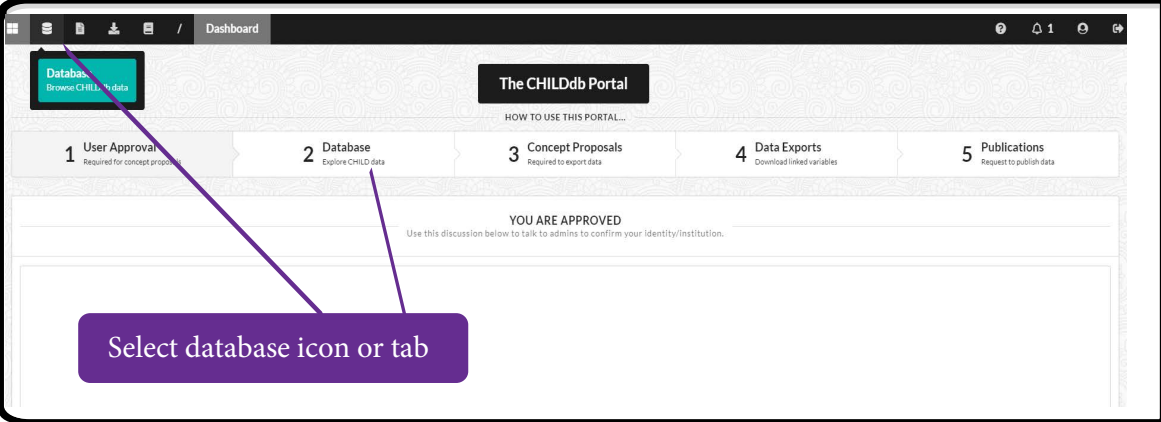
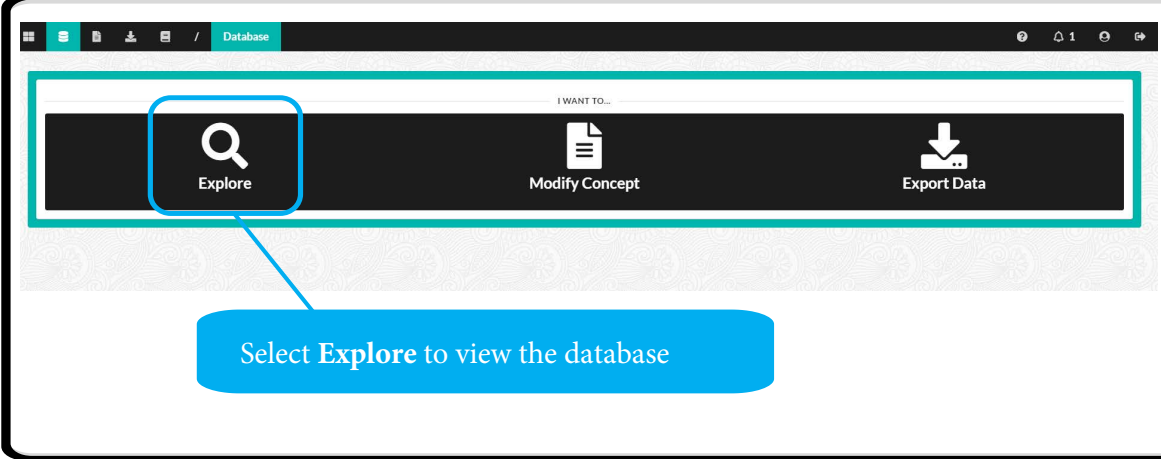


How to explore CHILD db data



Select database icon or tab

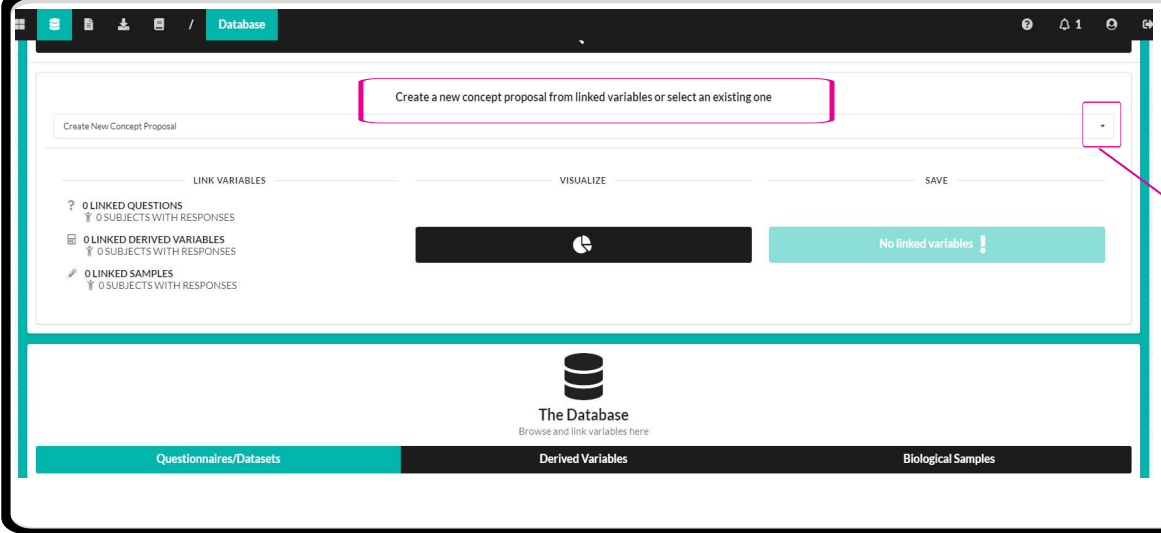
1. From the CHILD db dashboard, select the database icon from the upper menu bar or the database tab from the horizontal status bar to explore the data.



Select Explore to view the database

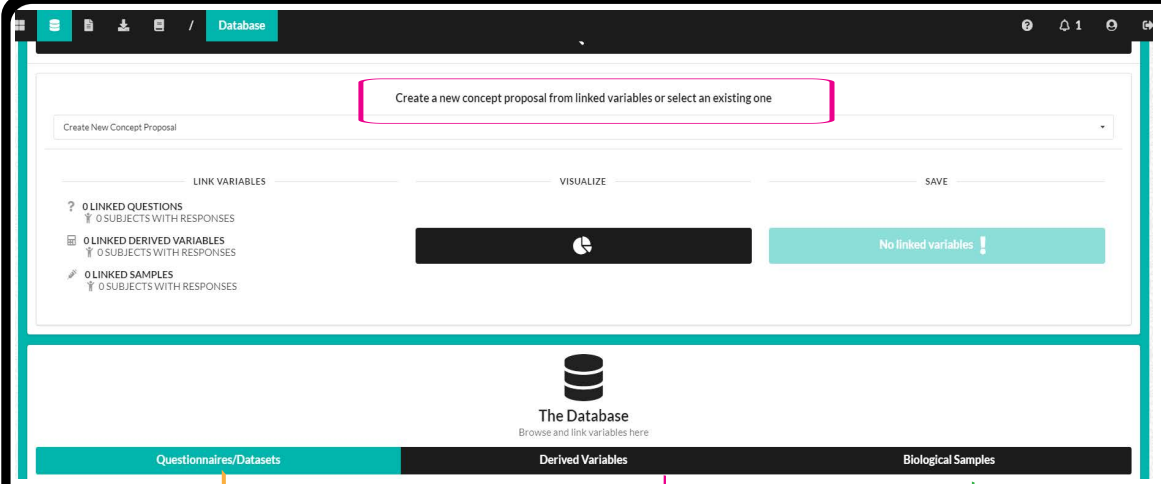
2. You have three options to select from: **Explore, Modify Concept, and Export Data.**

Select **Explore** to view the database.



Click on the dropdown menu to see a list of Concept Proposals you have access to.

3. Before you begin, select either **Explore Data / Create New Concept Proposal** or **Modify Existing Concept Proposal**.



Derived variables

Questionnaires/Datasets

Biological samples

4. Once you have chosen to create a new Concept Proposal or modify an existing one, you can explore the database.

You can explore:

- **Questionnaires/Datasets**
- **Derived variables**
- **Biological samples**

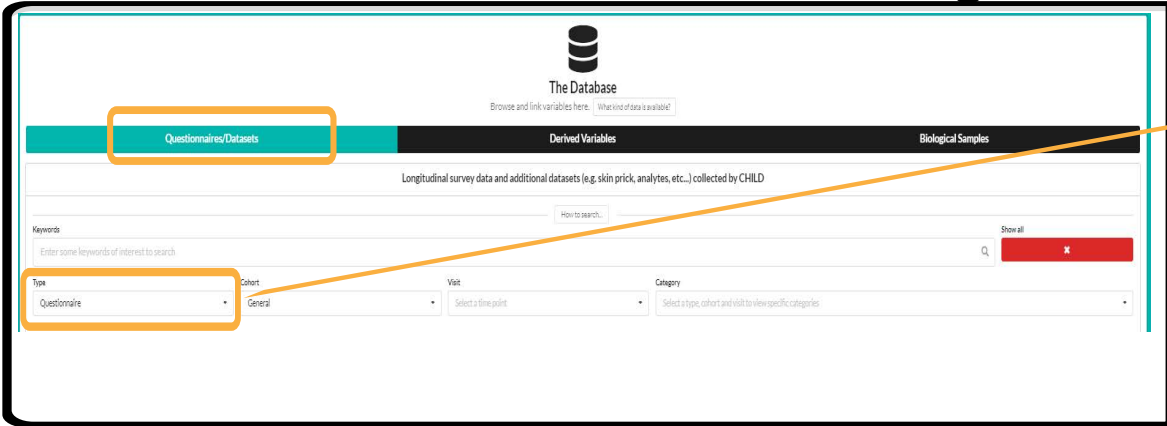
Explore Questionnaires & Datasets

Longitudinal survey data and additional datasets collected by CHILD



5. Select **Questionnaires/Datasets** from the database menu.

Note: **Questionnaires/Datasets** contain longitudinal survey data collected to age 5 years, as well as additional datasets (e.g. skinprick data, 'omics data, analytes, *etc.*) collected by CHILD.



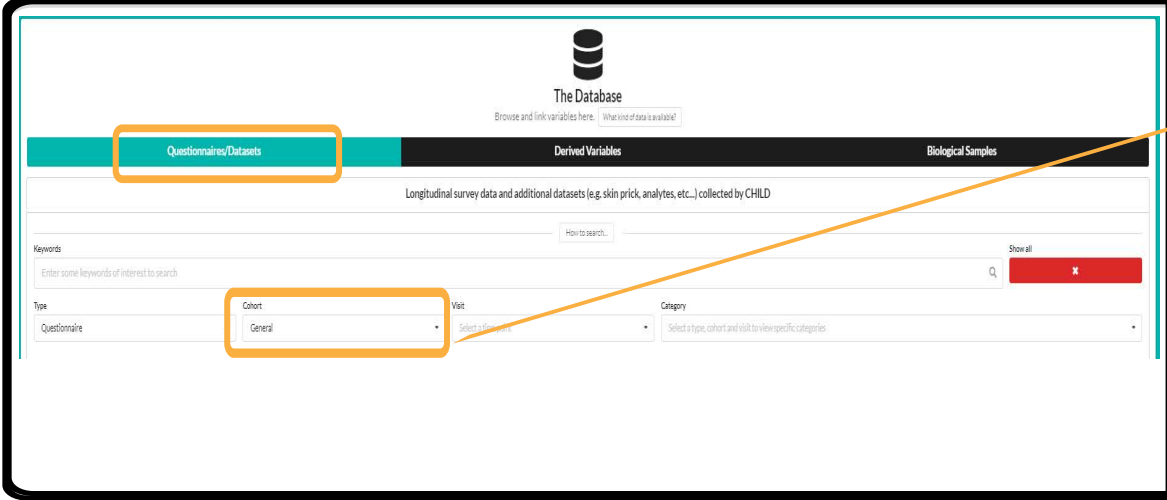
6. Select **Type**. Click on the dropdown menu to choose a datatype.

Type
Questionnaire
Omics
Questionnaire
Skinprick
Atopic Dermatis
FFQ Data
Analytes
CANUE



7. There are 7 datatypes.

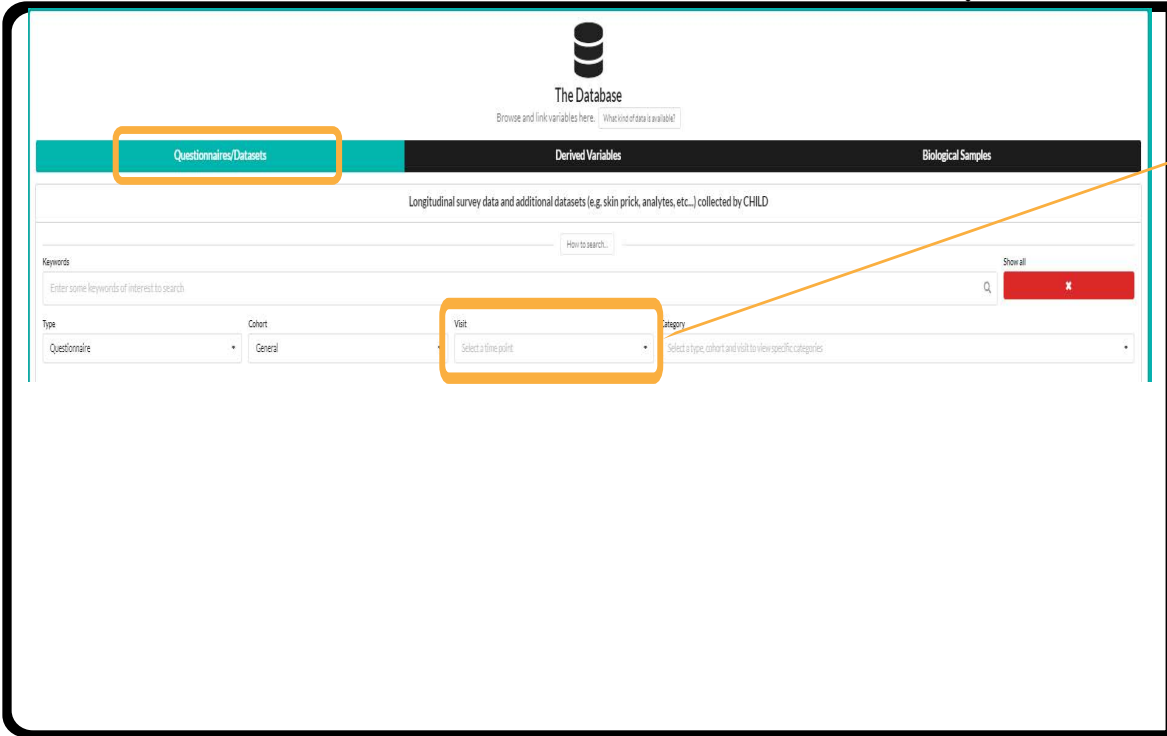
- To review questionnaire data, select Questionnaires
- To explore linked CANUE (air pollution) data, select CANUE.
- To explore CHILD's microbiome or epigenetic data, select OMICS.
- To explore chemical analytes (breastmilk, urine, house dust, mother serum metabolome) collected in CHILD, select Analytes.



8. Select **Cohort**.

Cohort is set to 'General.' Click on the dropdown menu if you wish to choose the 'Vanguard' cohort of ~200 subjects, which has a smaller selection of available datatypes.

Cohort
General
General
Vanguard



9. Select **Visit**. Click on the dropdown menu to choose a timepoint or other reference relevant to your research question.

Visit
Enrollment
Enrollment
Prenatal - Recruitment
Father
Prenatal - 36 Weeks
Birth
3 Months
6 Months
9 Months

Data from CHILD's 8-year and 13-year timepoints and CHILD's COVID-19 add-on study will be added to the database when they are available.

The Database
Browse and link variables here. | What kind of data is available?

Questionnaires/Datasets Derived Variables Biological Samples

Longitudinal survey data and additional datasets (e.g. skin prick, analytes, etc...) collected by CHILd

Keywords
Enter some keywords of interest to search

How to search: [Search Icon] [X]

Type: Questionnaire Cohort: General Visit: 5 Years Category: [Dropdown]

For example, if you choose Questionnaire; General cohort; 5 years; you will see there are 27 questionnaires available to explore. Use the scroll bar to see all the questionnaires available for this time point. The number of questions contained within each questionnaire is also shown.

10. Select **Category**. Click on the dropdown menu to select a specific category of data you are interested in based on your selections for **Type**, **Cohort** and **Visit**.

12 questions Socioeconomic Status
39 questions Child Sleep Habits (Edmonton Only)
18 questions Child Medications
18 questions Child Blood CBC
70 questions Child Health
14 questions Paediatric Sleep Toronto (Toronto Only)
13 questions Oxydic Adjustment Scale
21 questions Child External Allergy Results
14 questions Parenting Stress
16 questions Child Food Frequency
33 questions Child Clinical Assessment
46 questions Chronic Stress Response

The Database
Browse and link variables here. | What kind of data is available?

Questionnaires/Datasets Derived Variables Biological Samples

Longitudinal survey data and additional datasets (e.g. skin prick, analytes, etc...) collected by CHILd

Keywords
Enter some keywords of interest to search

How to search: [Search Icon] [X]

Type: Questionnaire Cohort: General Visit: Select a time point Category: Select a type, cohort and visit to view specific categories

diabetes [Search Icon]

11. You may also use the **Quick Search** bar to enter keywords of interest (e.g., diabetes) to find data from across questionnaires and timepoints. For multiword searches, separate keywords by a comma followed by a space.

Note: You cannot apply filters to **Quick Search** results. **Quick Search** operates independently of other search filters. (Type, Cohort, Visit, etc.)

Keywords
Enter some keywords of interest to search

Type: Questionnaire Cohort: General Visit: 5 Years Category: Child Health

How to link: [Search Icon] [X]

Link all questions from this questionnaire Unlink all questions from this questionnaire

Click the '+' symbol to select variables

Hover over the 'i' symbol to see details

Response Distribution

Response Distribution

12. Once you have made your selections, you will be shown a results list of all available questions/variables.

Click the '+' symbol to add variables to your new or existing Concept Proposal.

Hover over the 'i' symbol to see more details about the variable.

Click the "i" symbol to see a response distribution related to the variable. The response distribution can be shown as a bar graph or pie chart.

Create a new concept proposal from linked variables or select an existing one

Create New Concept Proposal

LINK VARIABLES VISUALIZE SAVE

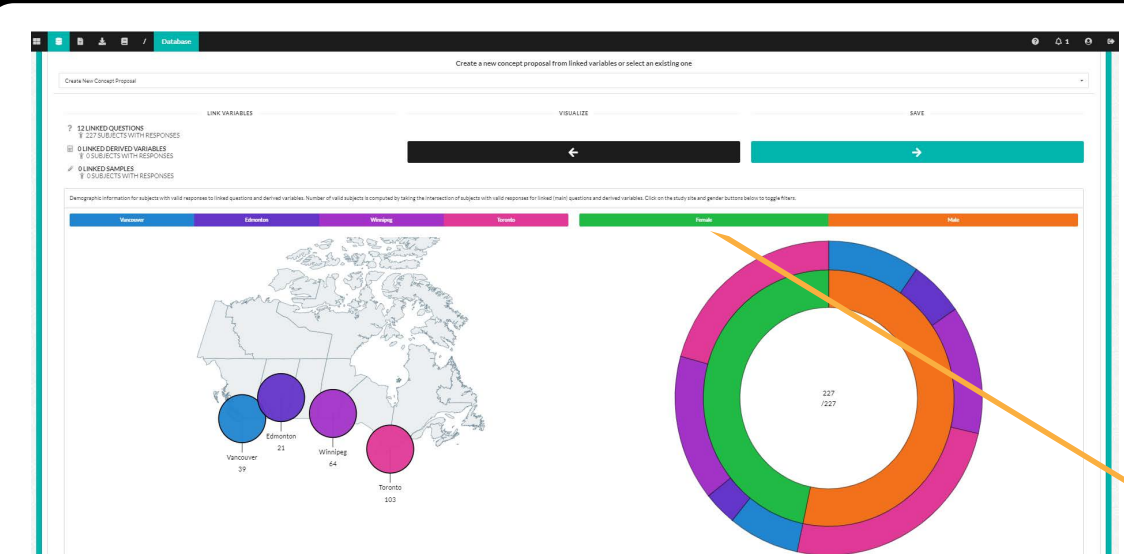
12 LINKED QUESTIONS
227 SUBJECTS WITH RESPONSES
0 LINKED DERIVED VARIABLES
0 SUBJECTS WITH RESPONSES
0 LINKED SAMPLES
0 SUBJECTS WITH RESPONSES

The Database
Browse and link variables here

Questionnaires/Datasets Derived Variables Biological Samples

13. CHILD db has a data visualization tool to view the selected data.

Click the pie chart icon at the top of the page to **Visualize** your dataset.

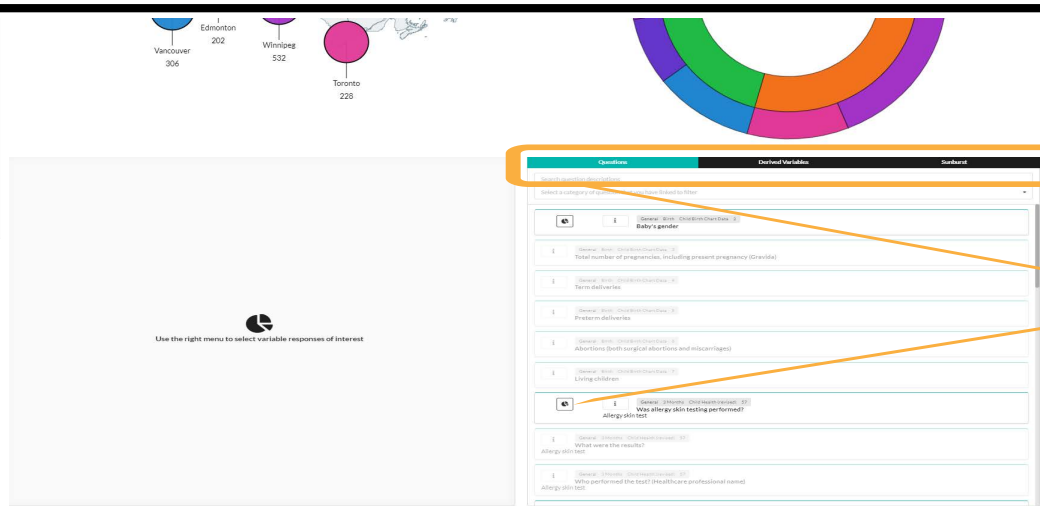


14. The visualization presents:

- a study centre site map showing demographic information for subjects (for questions and derived variables)
- a sunburst diagram across multiple linked variables

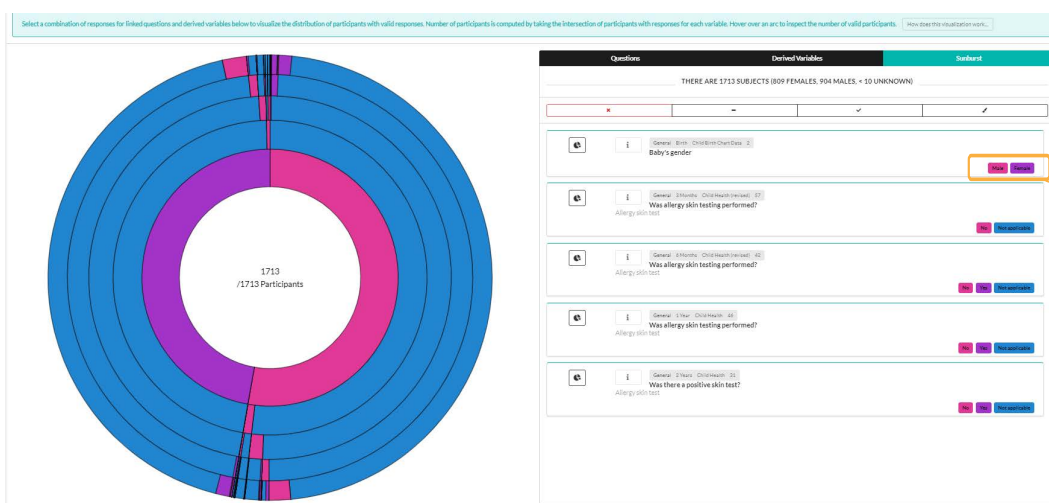
Click any of the buttons to toggle your demographic (study centre or gender) of interest.

Vancouver Edmonton Winnipeg Toronto Female Male

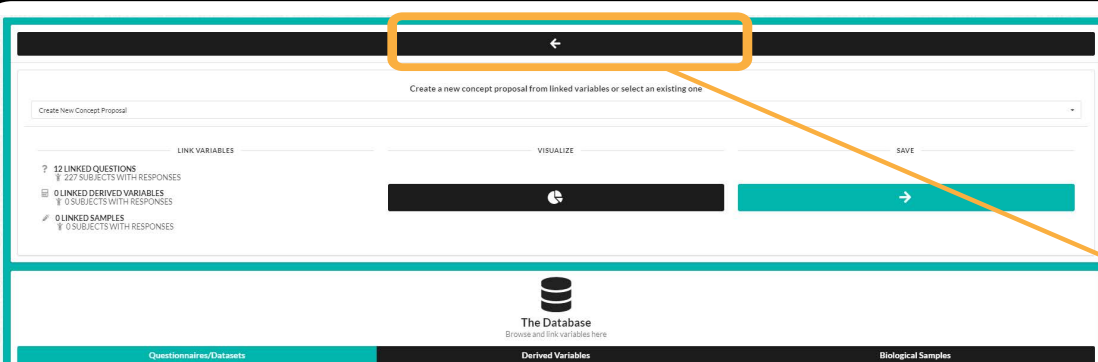
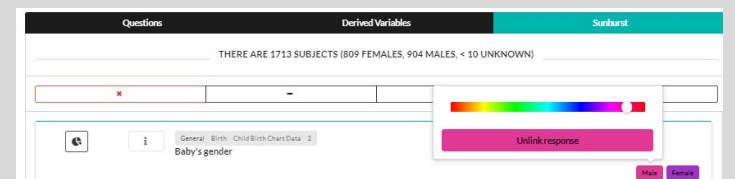


15. Scroll down the page to see visualizations for linked questions and derived variables.

Select **Questions** and click on the visualization icon beside a question to add it to the sunburst.

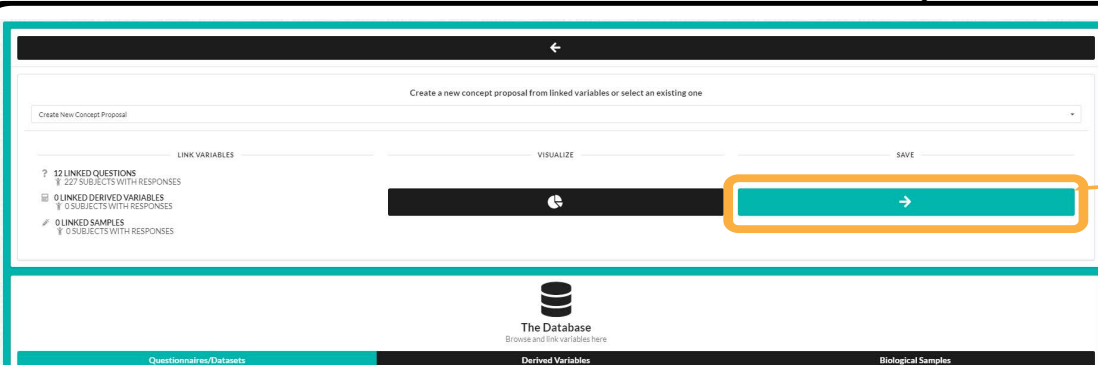


16. The sunburst will show the number of participants with responses for each question. You may link or unlink questions to change the combination of variables in the sunburst.



17. Once you have finished exploring variables, you may cancel your selections and go back to the database.

Click the black arrow to discard unsaved linked variables and return to the database to explore further.



18. If you are satisfied with your variables and want to create a new Concept Proposal, click the green **Save** arrow to save your selections.

Use this form to start a concept proposal. You can add linked variables using the database page after the form is completed.

PROPOSE A NEW CONCEPT PROPOSAL?

☒ Vancouver
 ☒ Edmonton
 ☒ Toronto
 ☒ Winnipeg

Would you like to access prospective data not yet collected by CHLD? ☐ Yes ☒ No

Would you like to involve CHLD participants in a separate study or initiative? ☐ Yes ☒ No

Submit concept proposal

19. You will be prompted for basic information about your proposal and asked a few questions about how you intend to use CHILd data and samples.

←

Use this form to start a concept proposal. You can add linked variables using the database page after the form is completed.

PROPOSE A NEW CONCEPT PROPOSAL?

Concept proposal title

Short description of the proposed concept

Detailed description of what you intend to investigate

☒ Vancouver ☒ Edmonton ☒ Toronto ☒ Winnipeg

Would you like to access prospective data not yet collected by CHILD? ☐ Yes ☒ No

Would you like to involve CHILD participants in a separate study or initiative? ☐ Yes ☒ No

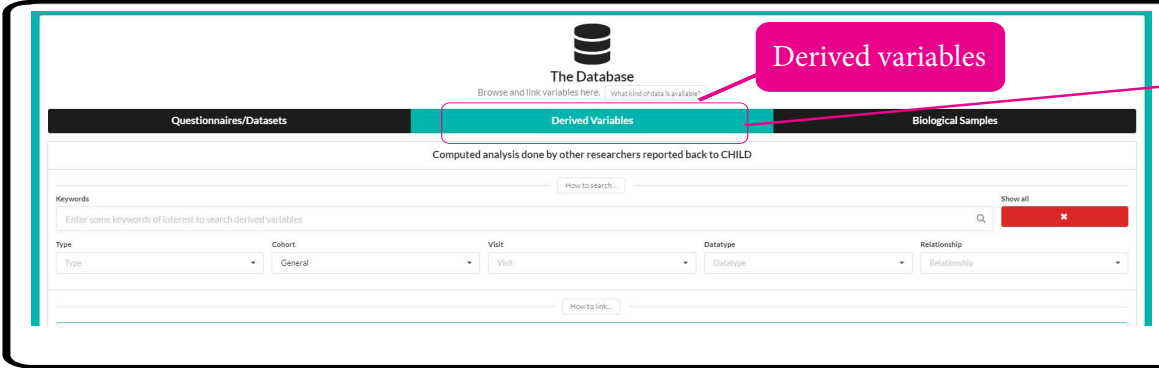
Submit concept proposal

20. Click **Submit**. You will be taken to the main page of your newly created Concept Proposal.

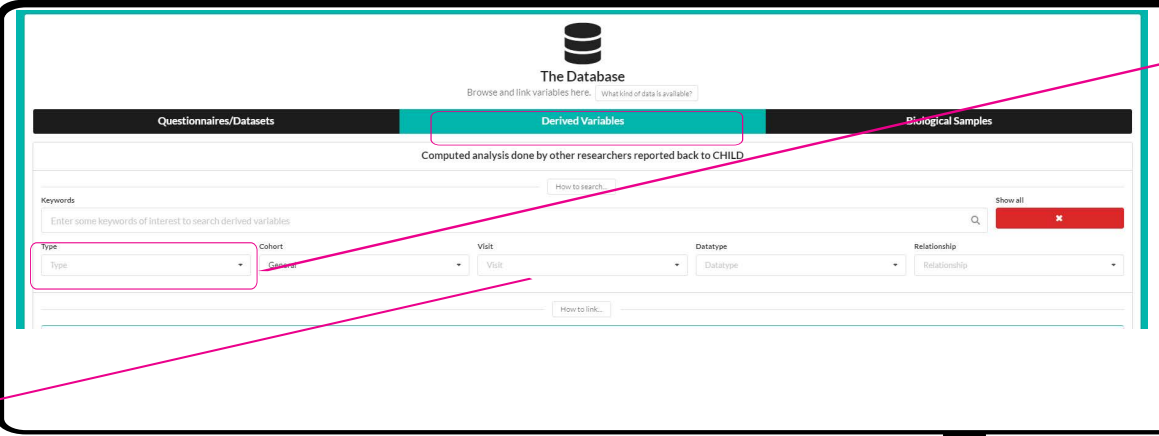
See **How to create a Concept Proposal** for more information.

Explore Derived Variables

Computed analyses done by other researchers and reported back to CHILD

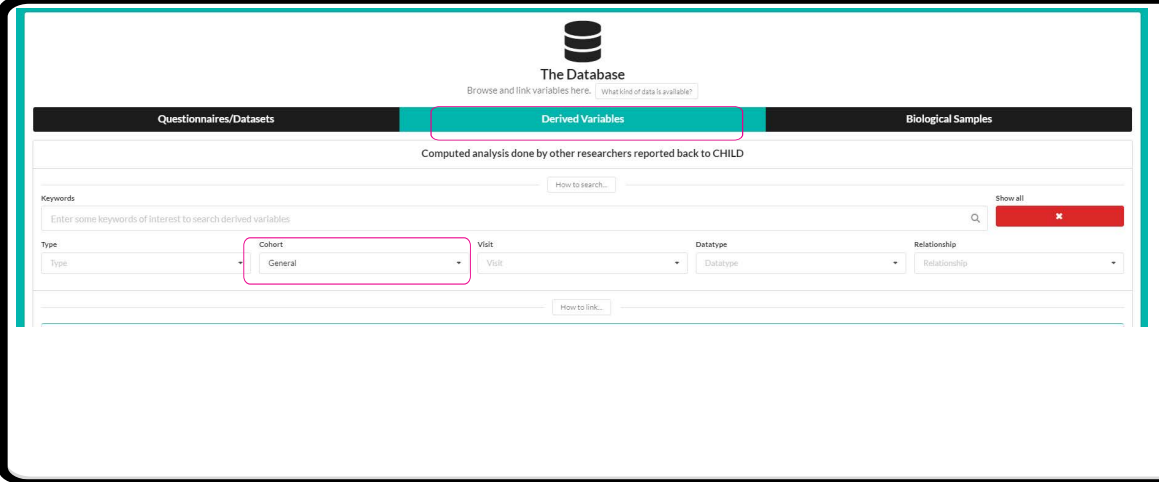
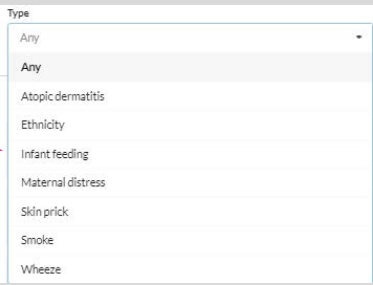


21. Select **Derived Variables** from the database menu. **Derived Variables** contain computed analyses done by other researchers and reported back to CHILD.

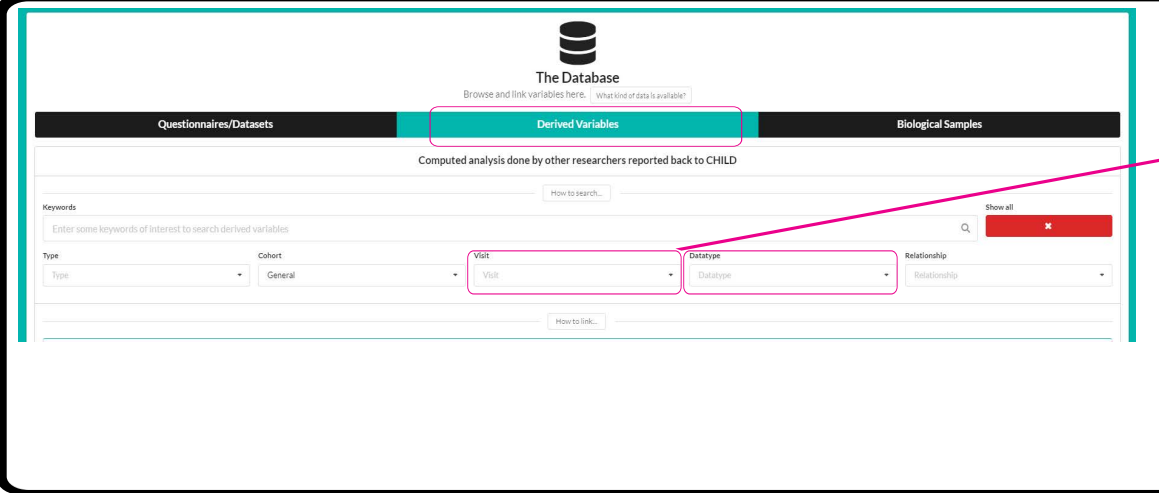
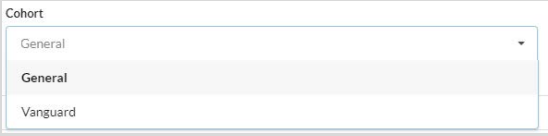


22. Select **Type**. Click on the dropdown menu to choose a derived variable of interest.

Analyzed datasets

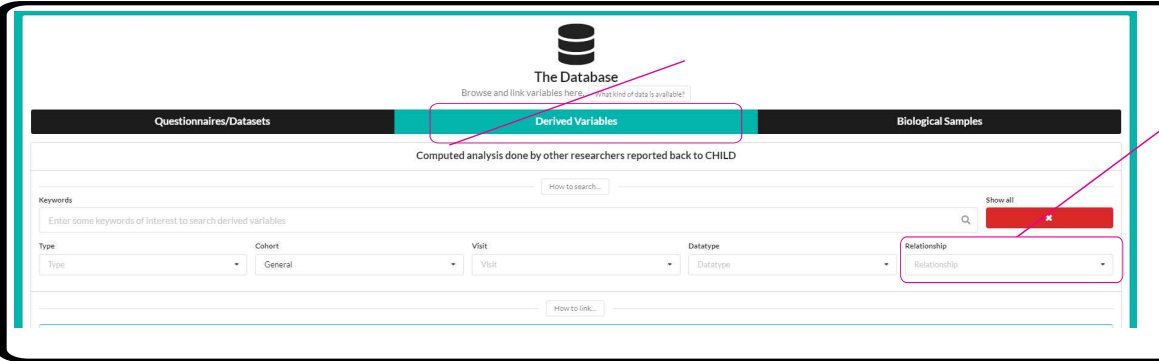
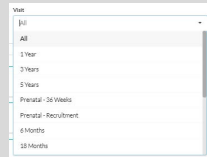


23. Select **Cohort**. Cohort is set to 'General.' Click on the dropdown menu if you wish to choose the 'Vanguard' cohort of ~200 subjects, which has a smaller selection of available datatypes.

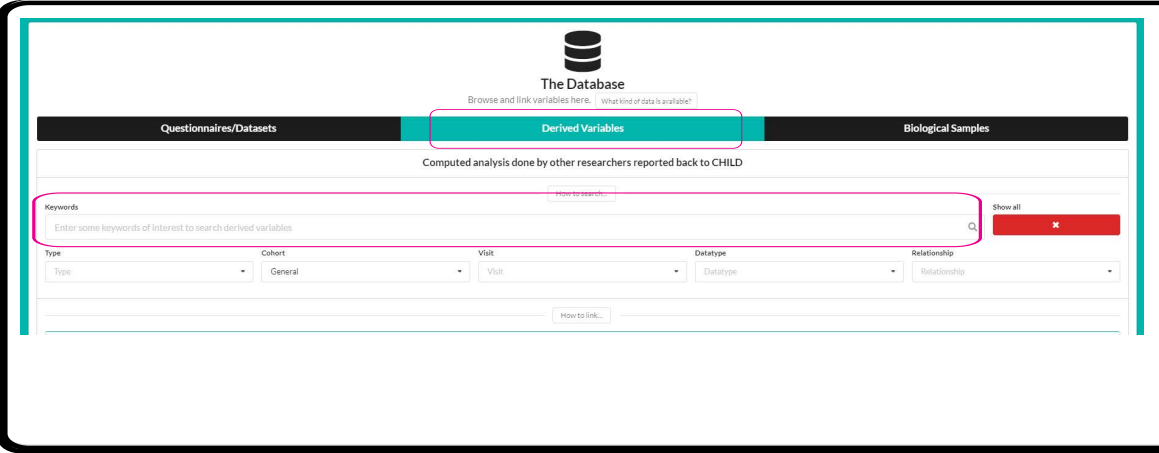


24. Select **Visit**. Datatype is set to 'All.' Click on the dropdown menu to select another datatype.

Select **Datatype**. Datatype is set to 'All.' Click on the dropdown menu to select another datatype.

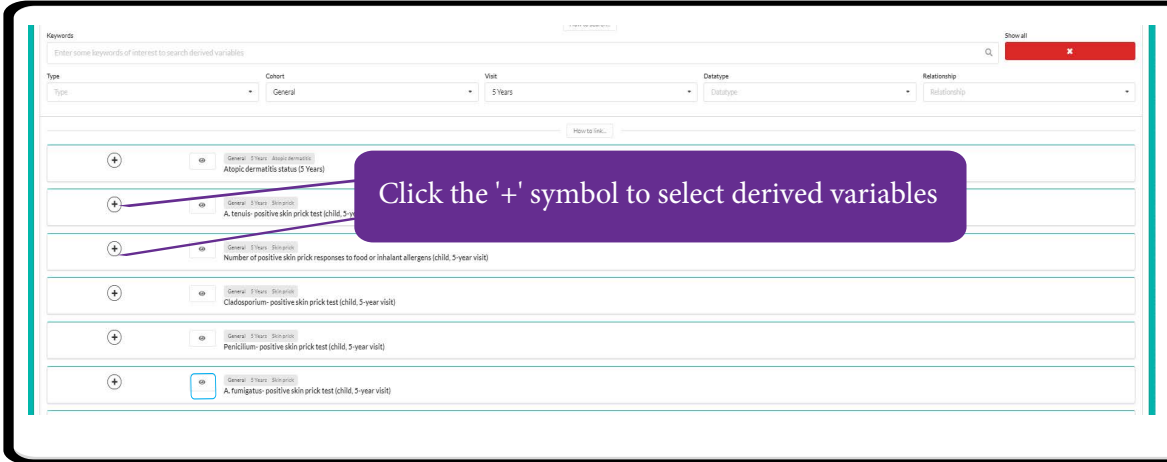


25. Select **Relationship**. Relationship is set to 'All.' Click on the dropdown menu to select another cohort subject.



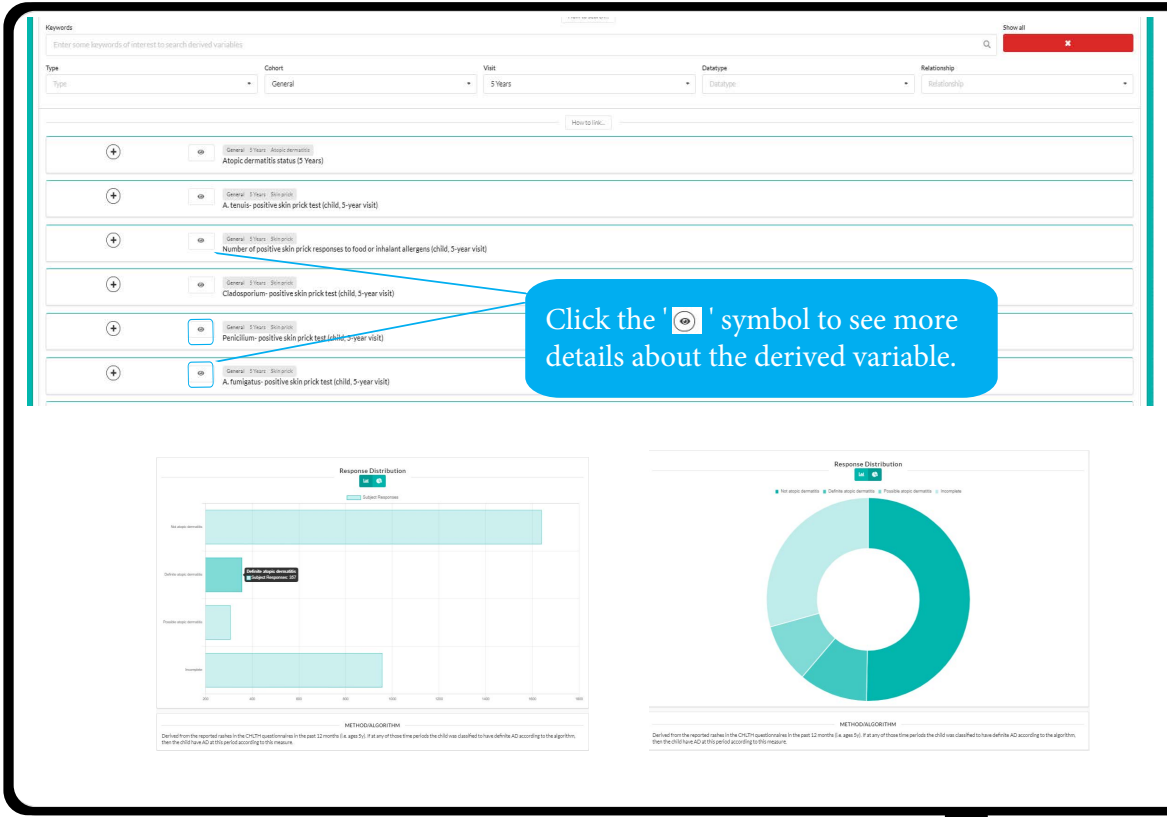
26. You may also use the **Quick Search** bar to enter keywords of interest to search derived variables. For multiword searches, separate keywords by a comma followed by a space.

Note: You cannot apply filters to **Quick Search** results. **Quick Search** operates independently of other search filters.



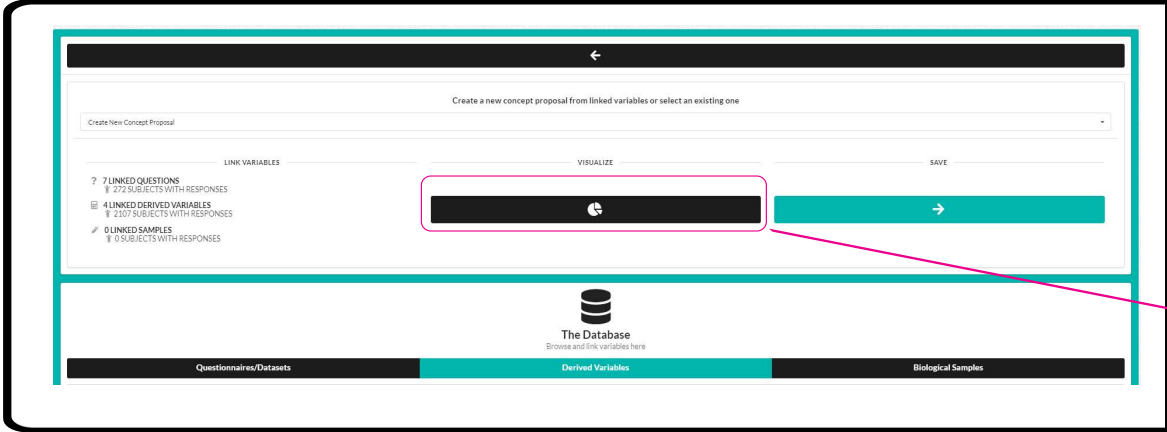
27. Once you have made your selections, you will be shown a results list of all available derived variables.

Click the '+' symbol to add derived variables to your new or existing Concept Proposal.



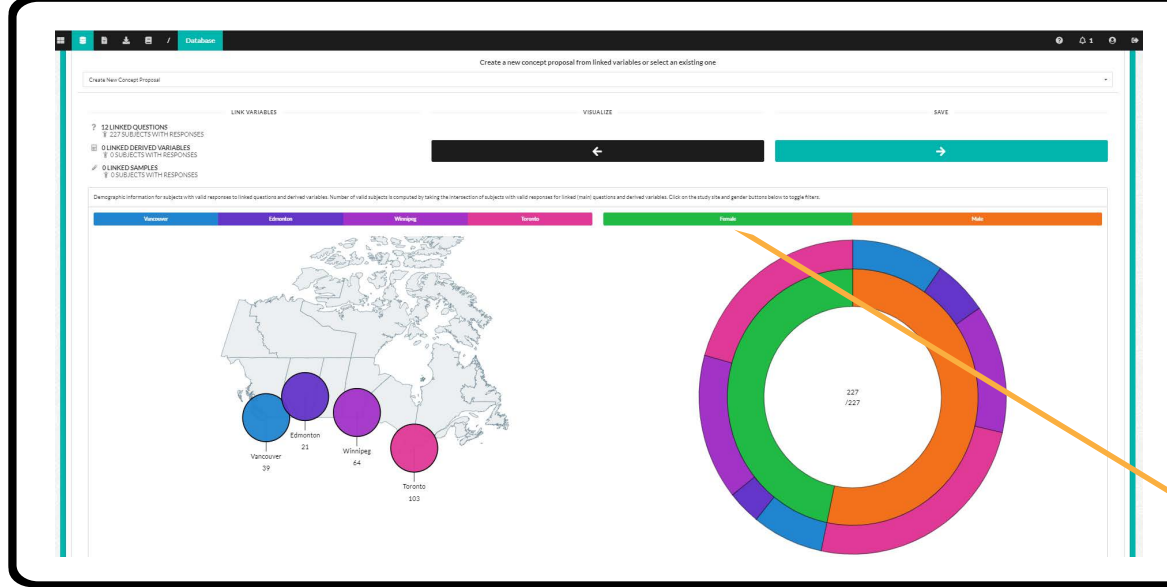
28. Click the 'eye' symbol to see a response distribution related to the variable.

The response distribution can be shown as a bar graph or pie chart.



29. CHILD db has a data visualization tool to view the selected data.

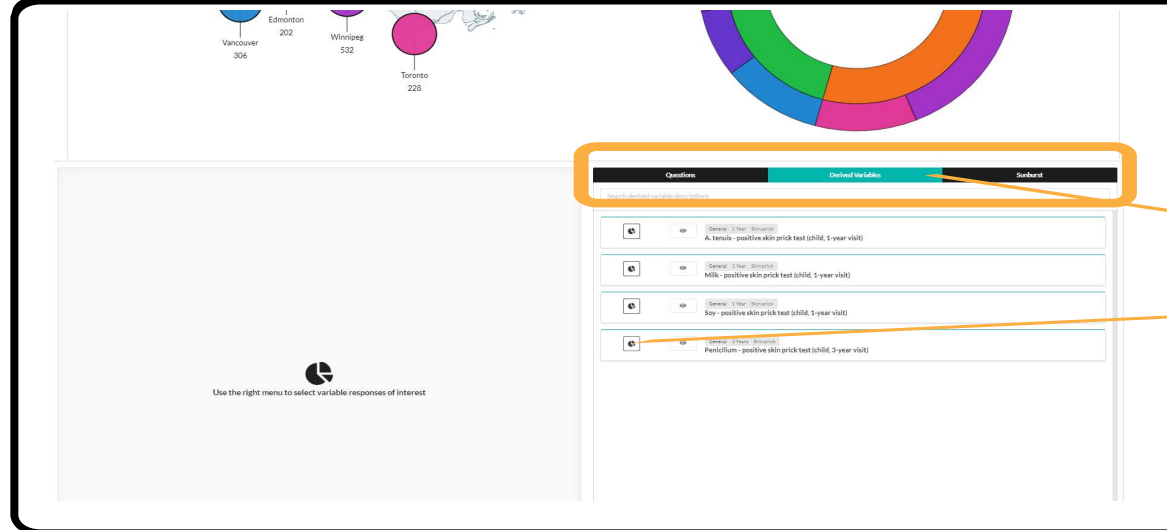
Click the pie chart icon at the top of the page to **Visualize** your dataset.



30. The visualization presents:

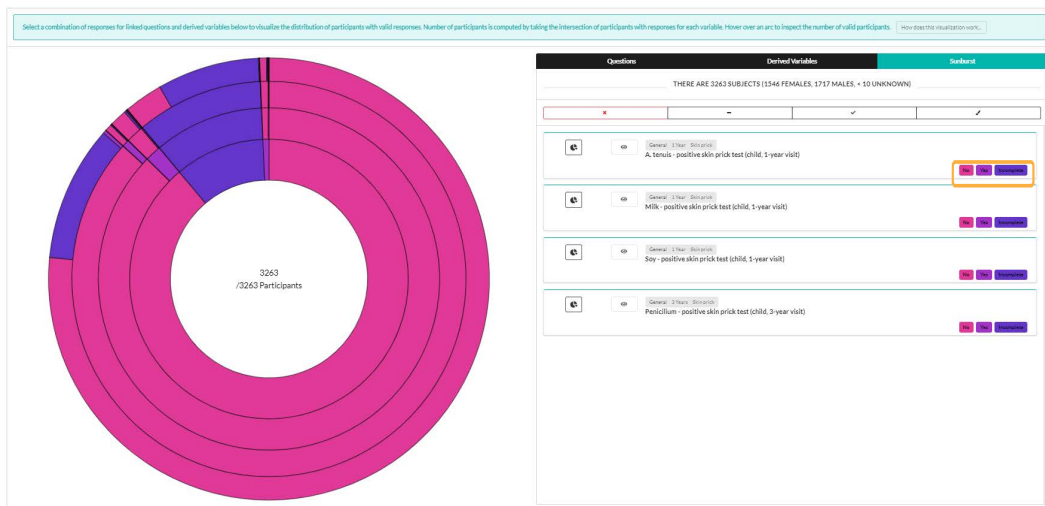
- a study centre site map showing demographic information for subjects (for questions and derived variables)
- a sunburst diagram across multiple linked variables

Click any of the buttons to toggle your demographic (study centre or gender) of interest.

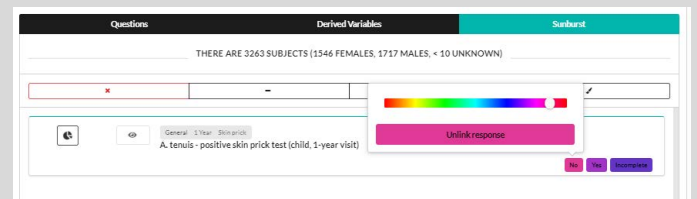


31. Scroll down the page to see visualizations for linked questions and derived variables.

Select **Derived Variables** and click the visualization icon beside a derived variable to add it to the sunburst.



32. The sunburst will show the number of participants with responses for each derived variable. You may link or unlink derived variables to change the combination of variables in the sunburst.



Create a new concept proposal from linked variables or select an existing one

Create New Concept Proposal

LINK VARIABLES

VISUALIZE

SAVE

7 LINKED QUESTIONS
272 SUBJECTS WITH RESPONSES

4 LINKED DERIVED VARIABLES
2307 SUBJECTS WITH RESPONSES

0 LINKED SAMPLES
0 SUBJECTS WITH RESPONSES

The Database
Browse and link variables here

Questionnaires/Datasets

Derived Variables

Biological Samples

33. Once you have finished exploring variables, you may cancel your selections and go back to the database.

Click the black arrow to discard unsaved linked variables and return to the database to explore further.

←

Create a new concept proposal from linked variables or select an existing one

Create New Concept Proposal

LINK VARIABLES

7 LINKED QUESTIONS
272 SUBJECTS WITH RESPONSES

4 UNLINKED DERIVED VARIABLES
2107 SUBJECTS WITH RESPONSES

0 UNLINKED SAMPLES
0 SUBJECTS WITH RESPONSES

VISUALIZE

SAVE

→

The Database
Browse and link variables here

Questionnaires/Datasets Derived Variables Biological Samples

34. If you are satisfied with your variables and want to create a new Concept Proposal, click the green **Save** arrow to save your selections.

←

Use this form to start a concept proposal. You can add linked variables using the database page after the form is completed.

PROPOSE A NEW CONCEPT PROPOSAL?

Concept proposal title

Short description of the proposed concept

Detailed description of what you intend to investigate


☒ Vancouver
 ☒ Edmonton
 ☒ Toronto
 ☒ Winnipeg

Would you like to access prospective data not yet collected by CHLDP?
 ☐ Yes
 ☒ No

Would you like to involve CHLDP participants in a separate study or initiative?
 ☐ Yes
 ☒ No

Submit concept proposal

35. You will be prompted for basic information about your proposal and asked a few questions about your intended use of CHILD data and samples.



Use this form to start a concept proposal. You can add linked variables using the database page after the form is completed.

PROPOSE A NEW CONCEPT PROPOSAL?

Concept proposal title

Short description of the proposed concept

Detailed description of what you intend to investigate

☒ Vancouver
 ☒ Edmonton
 ☒ Toronto
 ☒ Winnipeg

Would you like to access prospective data not yet collected by CHILDP? ☐ Yes ☒ No

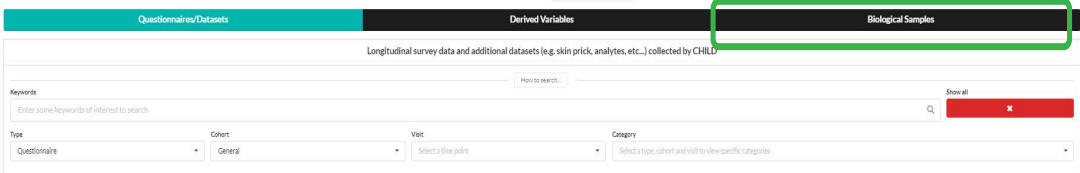
Would you like to involve CHILDP participants in a separate study or initiative? ☐ Yes ☒ No

Submit concept proposal

36. Click Submit. You will be taken to the main page of your newly created Concept Proposal.

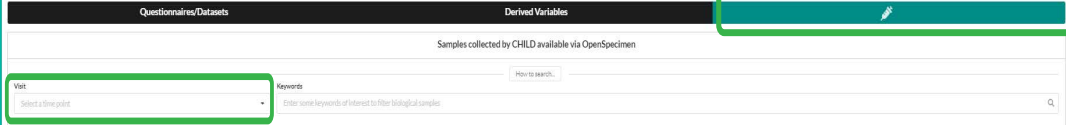
See **How to create a Concept Proposal** for more information.

Samples collected by CHILD via OpenSpecimen birth to 5 years

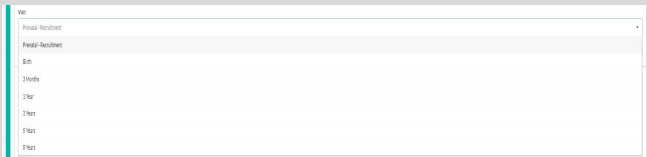


37. Select **Biological Samples** from the database menu.

Note: Biological Samples have been collected *via* OpenSpecimen. Samples to age 5 years are available.



38. Select **Visit.** Click on the dropdown menu to choose a timepoint relevant to your research question.



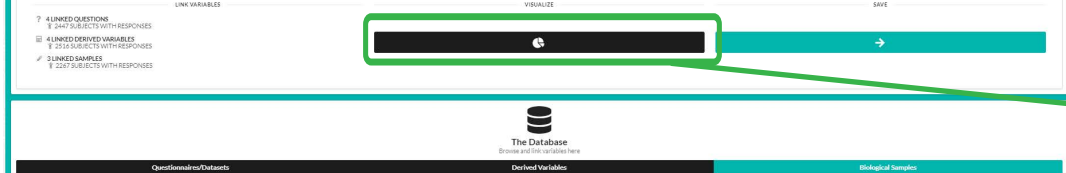
39. You may also use the **Quick Search** bar to enter keywords of interest.

Note: You cannot apply filters to **Quick Search** results. **Quick Search** operates independently of other search filters.



40. Once you have made your selections, you will be shown a results list of all available biological samples.

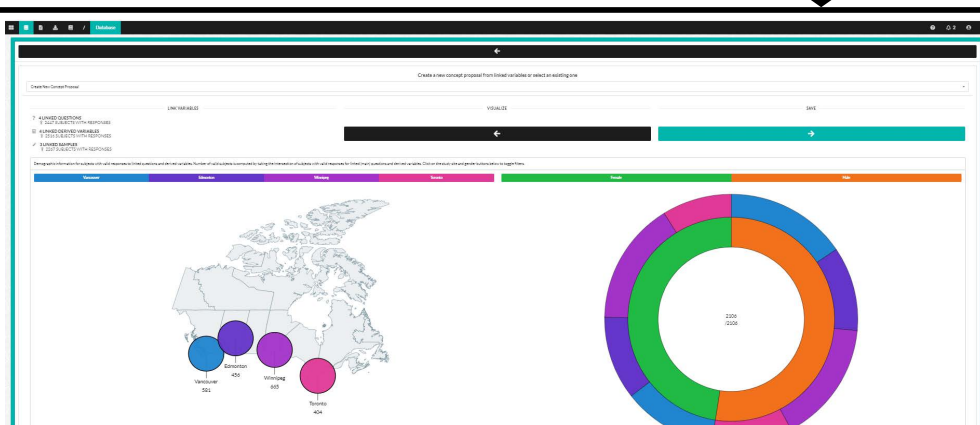
Click the '+' symbol to add biological samples to your new or existing Concept Proposal.



41. CHILD db has a data visualization tool to view the selected data.

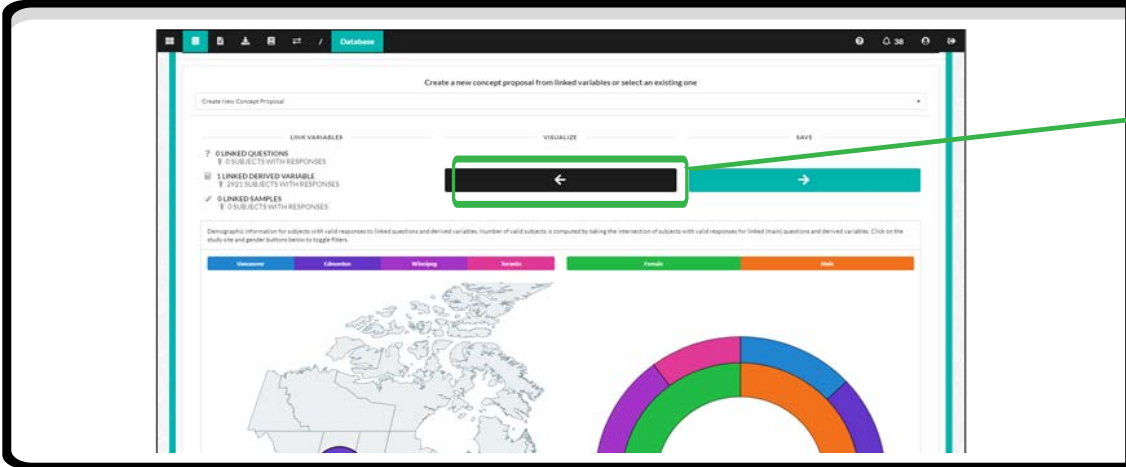
Click the pie chart icon at the top of the page to **Visualize** your dataset.

Note: Biological Samples must have associated linked questions or derived variables to generate a data visualization.

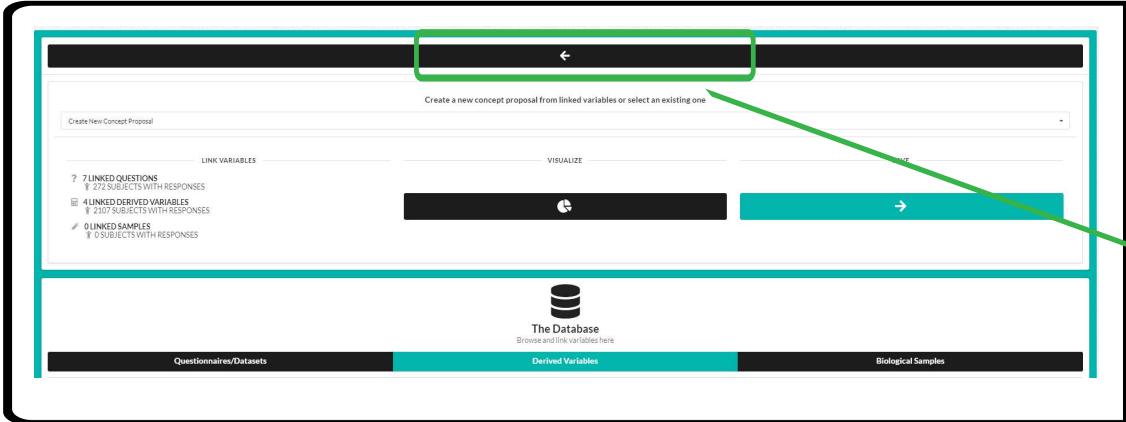


42. The visualization presents:

- a study centre site map showing demographic information for subjects (for questions and derived variables)
- a sunburst diagram across multiple linked variables

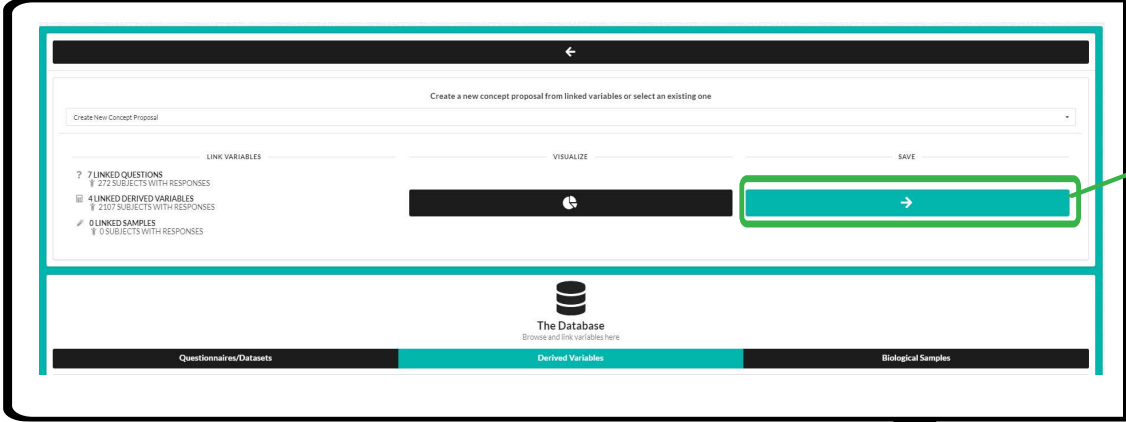


43. Click the black arrow to hide the visualization.

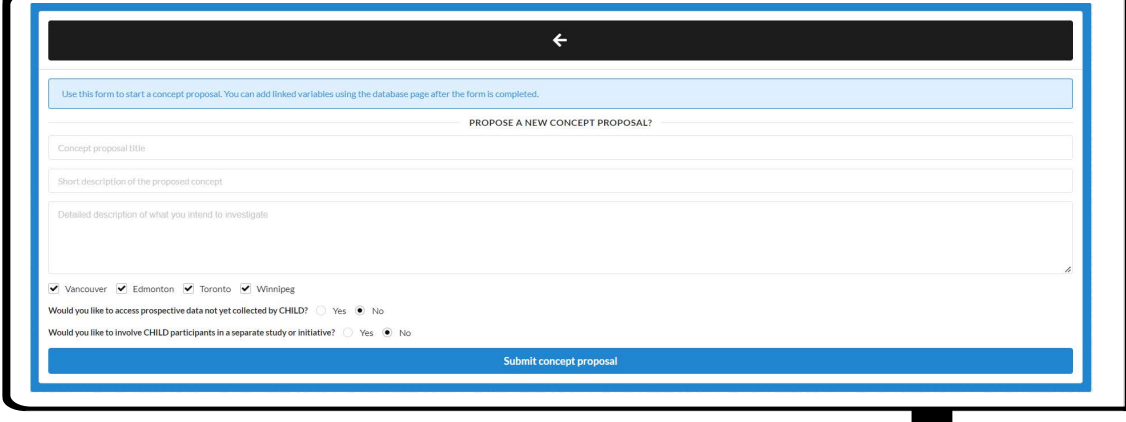


44. Once you have finished exploring biological samples, you may cancel your selections and go back to the database.

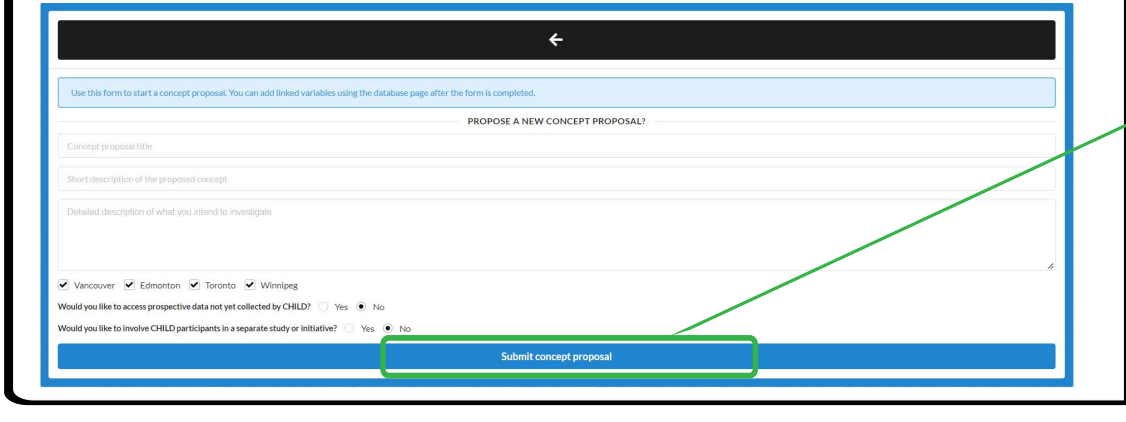
Click the black arrow to discard unsaved samples and return to the database to explore further.



45. If you are satisfied with your biological samples and want to create a new Concept Proposal, click the green **Save** arrow to save your selections.



46. You will be prompted for basic information about your proposal and asked a few questions about your intended use of CHIL data or samples.



47. Click **Submit**. You will be taken to the main page of your newly created Concept Proposal.

See **How to create a Concept Proposal** for more information.