




What is the age distribution of female GEMS participants from Bangladesh who had a duration of diarrheal illness longer than 3 days? How does this compare to males? (15 min)

1. Start this exercise from the home page. Navigate there using the ClinEpiDB logo located at the top left of your screen or the 'Home' button in the toolbar. Click on the Participants icon on the GEMS card to get started.
2. Use the search wizard to select only female Participants from the Bangladesh site. How many participants does this select?¹


Select a Set of Participants (GEMS) 

 → Choose Case/Control (22,567) → Geographic region (22,567) → Households (3,859) → **Personal characteristics...** (3,859) → Observations (1,622) → Refresh counts → Related Case/Control (?) → Results Options → View ? Participants (Name this search)


 Learn about the [GEMS1 Case Control](#)

Your *Personal characteristics* filters reduce 3,859 Participants to 1,622

Filter participants based on their characteristics that do not change over time.

Sex 







expand all | collapse all

Find a filter 

Case or Control Child

- Demographics
 - Date of birth
 - Sex**
 - Death information
 - Administrative information
 - Participant study details
 - Corresponding case
 - Individuals related to participant
 - Feeding

☐ Keep checked values at top

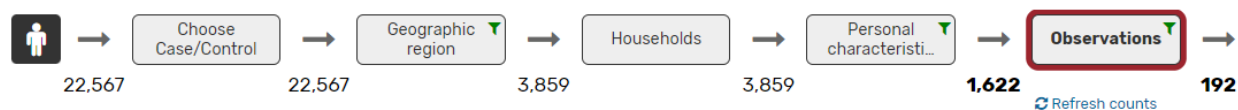
	Remaining Participants 	Participants 	Distribution 	% 
<input checked="" type="checkbox"/> Female	1,622 (42%)	9,746 (43%)		(17%)
<input type="checkbox"/> Male	2,237 (58%)	12,821 (57%)		(17%)

3. Next, select Participants who reported diarrheal episodes longer than 3 days. How many of the female Participants from the Bangladesh site have diarrheal episodes longer than 3 days?²
4. Click on the small green filter button to view what filters you have applied. It should show you have selected 'Bangladesh' from the Geographic Region filter in the search wizard; 'Female' from the Sex filter under the personal characteristic search wizard box, and 'Duration of diarrheal episode, days' = 4,5,6,7 from the Observations filter in the search wizard.

¹ 1622 Females from Bangladesh

² 192

Select a Set of Participants (GEMS) ▼



Notice that the blue button at the far right-hand side of the wizard now says, “View 192 Participants”. Duration of diarrheal illness only applies to Cases. Therefore, when you make a selection using this criteria, the set is also narrowed down to only Cases. What if you are interested in retrieving these cases and their matched controls?

View 192 Participants
Name this search

Click on the ‘Results Options’ box in the Search Wizard. This option allows you to determine what participants to return in your results page. You have the option of returning only those that you have selected or both the selected participants and their matching cases and controls.

Select a Set of Participants (GEMS) ▼

Learn about the GEMS1 Case Control

No Results Options filters applied yet

Return selected participants only

Choose whether to return just the participants selected in the search, include the matching cases (or controls) for the participants selected or only the matching cases (or controls) for the selected participants.

Click on the drop down menu and select, ‘Return both the selected participants and their matching cases/controls’. Then the number in the blue box will update to say ‘View 528 Participants’. Now click on this button.

1. Exploring the Results page

The page that loads after you click the ‘View 528 Participants’ button is referred to as the results page. Explore the features of this page just by hovering your mouse over some of the links and buttons.

By default, the results table displays 20 rows at a time and the amount of data displayed is protected through GEMS data access restrictions. If you login and obtain access, click on ‘Advanced Paging’ to display more than 20 rows per page.

528 Participants [Revise](#) [Combine with another search](#) [Save](#) [Share](#)

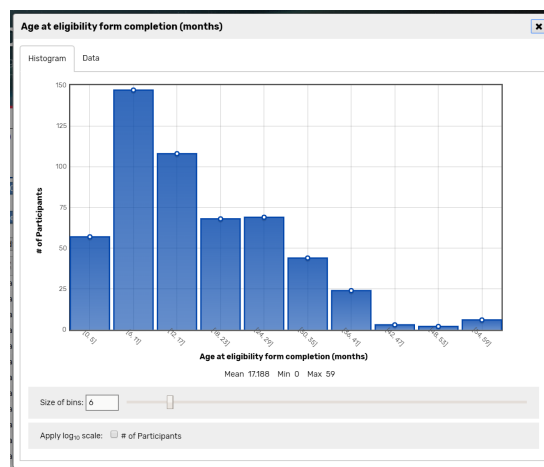
Participant Results [Analyze Results](#)

First 1 2 3 4 5 Next Last [Advanced Paging](#) [Download](#) [Add to Basket](#) [Add Columns](#)

Participant Id	Case or Control Child	Sex	Country
6010006401	Case	Female	Bangladesh
6010009731	Case	Female	Bangladesh
6010017221	Case	Female	Bangladesh
6010023641	Case	Female	Bangladesh
6010025931	Case	Female	Bangladesh

The top of each column in the data table has options for sorting the column in either descending or ascending order, a text description of the column contents, the 'x' circle will remove the column from the table and the small histogram icon will open additional detail about the column.

1. If it not displayed by default add a column displaying the 'Age at eligibility form completion'. Next try clicking on the small histogram icon in the 'Age at eligibility form completion' column header. Examine the pop up box that displays. The y-axis displays the count of Participants and the x-axis displays the number of participants. Which bin on the x-axis has the largest number of participants?³ Notice that you can modify the bin size to change the granularity of the histogram.



2. In the pop-up box, click on the 'Data' tab under the word 'Histogram' and next to the default 'graph' tab. This will provide a table of the aggregate data used to build the histogram. How many Participants were 4 months old? ⁴

3. Close the histogram and data table and see how this age distribution compares to male participants with a diarrhea duration longer than 3 days in Bangladesh. You should be able to do it in a few quick clicks.

You have completed the exercise for this section! Great job! Please let us know if you have any questions or submit any comments via the 'Contact Us' link located in bottom right corner of any of our web pages.

³ 6-11 months.

⁴ 22 Participants