

Demographics Supplement

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Introduction

Demographic information helps ensure those collecting data understand the characteristics of their population. It helps to contextualize findings of research or monitoring data and to assess the generalizability of findings (that is, how well findings may apply to another population).

By collecting data from both individuals and households, we gain a comprehensive understanding of the environment in which participants live and how factors at both levels may impact participants' menstrual health outcomes, experiences, and practices.

Sociodemographic data also serves as an important consideration in analyses that seek to adjust for confounding.

The AMEHC study uses a range of general demographic questions.

Reasons to include **demographic** measures in your work:

- To describe the participants in the study
- To stratify or cluster participants by certain characteristics.
- To control (adjust) for characteristics that are likely to confound the association between outcome and covariate of interest.

More details on how the Adolescent Menstrual Experiences and Health Cohort (AMEHC) Study included demographics in the study can be found on the following pages.



Overview of Household-Level Demographics

Definition	The characteristics and composition of individual households within a given population.
Importance to Menstrual Health	Characteristics at the household level such as household income, WASH facilities, and the number of people living in the household can all influence the social environment around menstruation at home and the physical infrastructure available for menstrual practices. The social and physical environment may affect health and social outcomes such as mental health, physical health, social participation, education, and sexual and reproductive health.
Measurement Method	DHS7-9: Observed by an enumerator Relationship, HHsize, DHS1-6,10-11, HWISE1-2: Self-reported by parents on an enumerator-administered survey Girls Section: Self-reported by girls on an enumerator-administered survey
General Considerations	
Question Source	DHS1-11: Joint Monitoring Programme. <i>Multiple Indicator Cluster Surveys: Household Questionnaire</i> . UNICEF; 2017. Accessed March 11, 2024. https://washdata.org/unicef-multiple-indicator-cluster-surveys-mics HWISE1-2: Young SL, Boateng GO, Jamaluddine Z, et al. The Household Water In Security Experiences (HWISE) Scale: development and validation of a household water insecurity measure for low-income and middle-income countries. <i>BMJ Glob Health</i> . 2019;4(5):e001750. doi:10.1136/bmjgh-2019-001750

Construct's Main Use in the AMEHC Study			
Proximal Exposure for:	Distal Exposure for:	Covariate for:	Outcome for:
		Mental Health, Education, SRH Physical Health Social Participation	

Included in the Following AMEHC Study Activities*					
Baseline Girls Survey	Baseline Guardians Survey	Baseline School Audit	Sub-cohort 1 Survey	Sub-cohort 2 Survey	Sub-cohort 3 Survey
X	X				
Wave 1 Survey	Wave 1 School Audit	Wave 2 Survey	Wave 2 Guardian survey	Wave 2 School Audit	
			X		

*Specific questions varied over different data collection activities according to study needs.

Household-Level Demographics Survey Questions in AMEHC

Question Number	Question	Response Options
PARENT/GUARDIAN SECTION		
Relationship	Relationship to the [girl] participant	<ul style="list-style-type: none"> • Father • Mother • Husband • Grandfather (paternal) • Grandmother (paternal) • Grandfather (maternal) • Grandmother (maternal) • Mother-in-law • Father-in-law • Aunt • Uncle • Other female guardian • Other male guardian
HHSize	<p>How many members of your household are there?</p> <p><i>Note: "By household, we mean a person or group of persons, related or unrelated who live together and share a common source of food"</i></p>	<ul style="list-style-type: none"> • <i>[number]</i>

DHS1	What is the main source of drinking water for members of your household?	<p>Piped Water</p> <ul style="list-style-type: none"> • Piped into Dwelling • Piped to Yard/Plot • Piped to Neighbor • Public Tap/Standpipe • Tube Well or Borehole <p>Dug well</p> <ul style="list-style-type: none"> • Protected Well • Unprotected Well <p>Water from spring</p> <ul style="list-style-type: none"> • Protected Spring • Unprotected Spring • Rainwater • Tanker Truck • Cart with Small Tank • Surface Water (River/Dam/Lake/Pond/Stream/Canal/Irrigation Channel) • Bottled Water • Other (Specify)
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DHS2	What kind of toilet facility do members of your household usually use?	<ul style="list-style-type: none"> • Flush/pour flush toilets connected to: Piped sewer system • Flush/pour flush toilets connected to: Septic tank • Flush/pour flush toilets connected to: Pit latrine • Flush/pour flush toilets connected to: Elsewhere • Flush/pour flush toilets connected to: Unknown / Not sure / Don't know • Ventilated improved pit latrine • Pit latrine with slab • Pit latrine without slab/open pit • Bucket/pan • Composting toilet • Hanging toilet /Hanging latrine • No facility / bush / field • Other • No Response
DHS3	Where is this toilet facility located?	<ul style="list-style-type: none"> • In own dwelling • In own yard/plot • Elsewhere • No response
DHS4	Do you share this toilet facility with other households or the public?	<ul style="list-style-type: none"> • Not shared • Shared with less than ten households • Shared with more than ten households • No response
DHS5	Does this household own any livestock, herds, other farm animals, or poultry?	<ul style="list-style-type: none"> • No • Yes • No response

DHS6	<p>Does any member of this household own any homestead?</p> <p><i>Note: If 'NO' PROBE: Does your household own a homestead in any other places?</i></p>	<ul style="list-style-type: none"> • No • Yes • No response
DHS7	<p>The main material of the exterior floor of the dwelling.</p> <p><i>Record Observation</i></p>	<p>Natural Floor</p> <ul style="list-style-type: none"> • Earth/Sand • Dung <p>Rudimentary Floor</p> <ul style="list-style-type: none"> • Wood Planks • Palm/Bamboo <p>Finished Floor</p> <ul style="list-style-type: none"> • Parquet or Polished Wood • Vinyl or Asphalt Strips • Ceramic Tiles • Cement • Carpet • Other (Specify)
DHS8	<p>Material of the roof of the dwelling.</p> <p><i>Record Observation</i></p>	<p>Natural Roofing</p> <ul style="list-style-type: none"> • No Roof • Thatch/Palm leaf • Sod <p>Rudimentary Roofing</p> <ul style="list-style-type: none"> • Rustic Mat • Palm/Bamboo • Wood Planks • Cardboard <p>Finished Roofing</p> <ul style="list-style-type: none"> • Tin/Metal • Wood • Calamine/Cement Fiber • Ceramic Tiles • Cement • Roofing Shingles • Other (Specify)

<p>DHS9</p>	<p>The main material of the exterior walls of the dwelling.</p> <p><i>Record Observation</i></p>	<p>Natural Walls</p> <ul style="list-style-type: none"> • No Walls • Cane/Palm/Trunks • Dirt <p>Rudimentary Walls</p> <ul style="list-style-type: none"> • Bamboo with Mud • Stone with Mud • Rudimentary brick Abode • Plywood • Cardboard • Reused Wood <p>Finished Walls</p> <ul style="list-style-type: none"> • Tin • Cement • Stone with Lime/Cement • Bricks • Cement Blocks • Wood Planks/Shingles • Other (Specify)
<p>DHS10</p>	<p>What type of fuel does your household mainly use for cooking?</p>	<ul style="list-style-type: none"> • Electricity • LPG • Natural Gas • Bio Gas • Kerosene • Coal, Lignite • Charcoal • Wood • Straw/Shrubs/Grass • Agricultural Crop • Animal Dung • No Food cooked in the household • Other (Specify)

DHS11	Does your household have:		Yes	No
		Electricity	1	2
		Solar electricity	1	2
		Radio	1	2
		Sewing machine	1	2
		Fan	1	2
		Wardrobe/Almirah	1	2
		Motorcycle/ Motor scooter	1	2
		Boat	1	2
		Internet	1	2
		Refrigerator	1	2
		Television	1	2
		IPS/Generator	1	2
		Computer/Laptop/Tab	1	2
		Mobile phone	1	2
		Air conditioner	1	2
Truck/Bus/Taxi/Car	1	2		
CNG/Auto bike/ Tempo	1	2		
Bicycle	1	2		
Rickshaw/Van	1	2		
HWISE1	In the last 4 weeks, how frequently has your main water source been interrupted or limited (eg, water pressure, less water than expected, high salinity)?	<ul style="list-style-type: none"> • Never (0 times) • Rarely (1-2 times) • Sometime (3-10 times) • Often or always (11+ times) 		
HWISE2	In the last 4 weeks, how frequently have you or anyone in your household had to go without washing their body because of problems with water (eg, not enough water, dirty, unsafe)?	<ul style="list-style-type: none"> • Never (0 times) • Rarely (1-2 times) • Sometime (3-10 times) • Often or always (11+ times) 		
GIRLS SECTION				

<p>HHComp</p>	<p>Who lives together with you in your home?</p> <p><i>NOTE: By household, we mean a person or group of persons, related or unrelated who live together and share a common source of food</i></p> <p><i>Do not read response options. Select all that apply and confirm the number of older sisters etc.</i></p>	<ul style="list-style-type: none"> • Mother [0/1] • Father [0/1] • Older Sister [<i>number</i>] • Younger Sister [<i>number</i>] • Older Brother [<i>number</i>] • Younger Brother [<i>number</i>] • Grandmother [<i>number</i>] • Grandfather [<i>number</i>] • Husband [0/1] • Sister-in-law (bhabi) [<i>number</i>] • Brother-in-law (dula bhai) [<i>number</i>] • Aunt [<i>number</i>] • Uncle [<i>number</i>] • Son [<i>number</i>] • Daughter [<i>number</i>] • Mother-in-law [0/1] • Father-in-law [0/1] • Other Adult (Male) [<i>number</i>] • Other Adult (Female) [<i>number</i>] • Other Child (Male) [<i>number</i>] • Other Child (Female) [<i>number</i>]
<p>Internet</p>	<p>Is there a device in your household that you can use to access the internet (e.g., smartphone, tablet, computer)?</p>	<ul style="list-style-type: none"> • No • Yes • I don't know

Overview of Individual-Level Demographics

Definition	The characteristics and attributes of specific individuals within a population.
Importance to Menstrual Health	Characteristics at the individual level such as age, religion, and disability status can all influence menstrual knowledge and beliefs, menstrual practices, and experiences managing menstruation. These factors may affect menstrual health outcomes such as mental health, physical health, social participation, education, and sexual and reproductive health.
Measurement Method	Parent/Guardian and Disability Section: Self-reported by parents on an enumerator-administered survey Girls Section: Self-reported by girls on an enumerator-administered survey
General Considerations	Education and employment levels are specific to the study context of Bangladesh and would need to be adapted for other settings.
Question Source	D1-6: Washington Group. <i>The Washington Group Short Set on Functioning (WG-SS)</i> . University College London; 2022. Accessed April 23, 2024. https://www.washingtongroup-disability.com/fileadmin/uploads/wg/Washington_Group_Questionnaire_1_-_WG_Short_Set_on_Functioning_October_2022_.pdf Other questions capturing education, employment and travel time to school were developed drawing on standard demographic questions, and incorporating knowledge of the relevant response options in the study context.

Construct's Main Use in the AMEHC Study			
Proximal Exposure for:	Distal Exposure for:	Covariate for:	Outcome for:
		Mental Health Education SRH Physical Health Social Participation	

Included in the Following AMEHC Study Activities*					
Baseline Girls Survey	Baseline Guardians Survey	Baseline School Audit	Sub-cohort 1 Survey	Sub-cohort 2 Survey	Sub-cohort 3 Survey
X	X		X	X	X
Wave 1 Survey	Wave 1 School Audit	Wave 2 Survey	Wave 2 Guardian survey	Wave 2 School Audit	
X					

*Specific questions varied over different data collection activities according to study needs.

Individual-Level Demographics Survey Questions in AMEHC

Question Number	Question	Response Options
PARENT/GUARDIAN SECTION		
Religion	What is your religion?	<ul style="list-style-type: none"> • Muslim • Hindu • Christian • Buddhist • No religion • Other
Age	How old are you?	[age in years]
Education_highest	What is the highest level of education you have completed? <i>Do not read response options</i>	<ul style="list-style-type: none"> • No school • Some primary school (did not complete) • Completed primary school • Some secondary school (did not complete) • Completed secondary or equivalent (o-levels) • Completed higher secondary or equivalent (a-levels) • Vocational training • Complete university (undergrad) • Higher university degree + (masters) • Koumi madrasha (Hafez, Daura hadis) • Don't know

Education_mother	<p><i>If the father is responding to the survey:</i> What is the highest level of education your wife has completed?</p> <p><i>Do not read response options</i></p>	<ul style="list-style-type: none"> • No school • Some primary school (did not complete) • Completed primary school • Some secondary school (did not complete) • Completed secondary or equivalent (o-levels) • Completed higher secondary or equivalent (a-levels) • Vocational training • Complete university (undergrad) • Higher university degree + (masters) • Koumi madrasha (Hafez, Daura hadis) • Don't know
Education_father	<p><i>If the mother is responding to the survey:</i> What is the highest level of education your husband has completed?</p> <p><i>Do not read response options</i></p>	<ul style="list-style-type: none"> • No school • Some primary school (did not complete) • Completed primary school • Some secondary school (did not complete) • Completed secondary or equivalent (o-levels) • Completed higher secondary or equivalent (a-levels) • Vocational training • Complete university (undergrad) • Higher university degree + (masters) • Koumi madrasha (Hafez, Daura hadis) • Don't know

<p>Education_mother2</p>	<p><i>If neither the father nor mother is responding to the survey:</i> What is the highest level of education that the [girl participant's] mother has completed?</p> <p><i>Do not read response options</i></p>	<ul style="list-style-type: none"> • No school • Some primary school (did not complete) • Completed primary school • Some secondary school (did not complete) • Completed secondary or equivalent (o-levels) • Completed higher secondary or equivalent (a-levels) • Vocational training • Complete university (undergrad) • Higher university degree + (masters) • Koumi madrasha (Hafez, Daura hadis) • Don't know
<p>Employment</p>	<p>What is your occupation?</p> <p><i>Do not read response options</i></p>	<ul style="list-style-type: none"> • No paid employment • Self-employed (stall/small business owner/a person who performs work for profit or family gain, in cash or in-kind) • Agricultural day labourer (a person who works in the agricultural sectors such as in crop production, livestock rearing, etc.) • Non-agricultural day labourer (a person who works in non-agricultural sectors such as in the manufacturing of goods, handicrafts, etc.) • Professionals (well-educated workers who enjoy considerable work autonomy and engaged in creative and intellectually challenging work) • Service and sales workers • Other

<p>Employment_mother</p>	<p><i>If the father is responding to the survey:</i> What is your wife's occupation?</p> <p><i>Do not read response options</i></p>	<ul style="list-style-type: none"> • No paid employment • Self-employed (stall/small business owner/a person who performs work for profit or family gain, in cash or in-kind) • Agricultural day labourer (a person who works in the agricultural sectors such as in crop production, livestock rearing, etc.) • Non-agricultural day labourer (a person who works in non-agricultural sectors such as in the manufacturing of goods, handicrafts, etc.) • Professionals (well-educated workers who enjoy considerable work autonomy and engaged in creative and intellectually challenging work) • Service and sales workers • Other
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Employment_father	<p><i>If the mother is responding to the survey:</i> What is your husband's occupation?</p> <p><i>Do not read response options</i></p>	<ul style="list-style-type: none"> • No paid employment • Self-employed (stall/small business owner/a person who performs work for profit or family gain, in cash or in-kind) • Agricultural day labourer (a person who works in the agricultural sectors such as in crop production, livestock rearing, etc.) • Non-agricultural day labourer (a person who works in non-agricultural sectors such as in the manufacturing of goods, handicrafts, etc.) • Professionals (well-educated workers who enjoy considerable work autonomy and engaged in creative and intellectually challenging work) • Service and sales workers • Other
<p>Disability Note Guardians were asked to report on the girl participant's difficulties. Instructions: In the next set of questions we will ask about difficulties your child may have doing certain activities due to a long-term physical or emotional health problem. By long-term, I mean a difficulty that has lasted or is expected to last longer than six months. We are asking these questions to all guardians. We want to make sure that our study is sensitive to the difficulties that some girls may face.</p>		
D1	Does she have difficulty seeing, even if wearing glasses?	<ul style="list-style-type: none"> • No difficulty • Some difficulty • A lot of difficulty • Cannot do it at all
D2	Does she have difficulty hearing, even if using a hearing aid?	<ul style="list-style-type: none"> • No difficulty • Some difficulty • A lot of difficulty • Cannot hear at all

D3	Does she have difficulty walking or climbing steps?	<ul style="list-style-type: none"> • No difficulty • Some difficulty • A lot of difficulty • Cannot walk at all
D4	Does she have difficulty remembering or concentrating?	<ul style="list-style-type: none"> • No difficulty • Some difficulty • A lot of difficulty • Cannot remember or concentrate at all
D5	Does she have difficulty with self-care, such as washing all over or dressing?	<ul style="list-style-type: none"> • No difficulty • Some difficulty • A lot of difficulty • Cannot do it at all
D6	Using her usual language, does she have difficulty communicating, for example understanding or being understood?	<ul style="list-style-type: none"> • No difficulty • Some difficulty • A lot of difficulty • Cannot communicate at all
<u>GIRLS SECTION</u>		
School_type	School type	<ul style="list-style-type: none"> • Co-educational • Single-sex • Madrassa
School	School name	<ul style="list-style-type: none"> • <i>[Name of school]</i>
Travel	How long does it take for you to travel from your home to your school ? <i>Do not read response options.</i>	<ul style="list-style-type: none"> • 5-10 minutes • 11-30 minutes • 31-60 minutes • 61-120 minutes • >120 minutes
Religion	What is your religion? <i>Do not read response options.</i>	<ul style="list-style-type: none"> • Muslim • Hindu • Christian • Buddhist • No religion • Other
Age	How old are you?	<ul style="list-style-type: none"> • <i>[number]</i>

Transfer	Have you changed schools or dropped out of school since our last survey?	<ul style="list-style-type: none">• No• Yes (changed schools)• Dropped out of school
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