Menstrual Pain Experienced and Support for Managing Menstrual Pain Supplement

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Introduction

Experiences of menstrual pain and symptoms have significant implications for wellbeing and quality of life. Menstrual health requires individuals to access care for discomforts or disorders associated with the menstrual cycle. This may include engaging with health care services, or using self-care practices such as pharmaceutical pain relief or heat.

Heavy menstrual bleeding is prevalent around the world and has significant implications for health and wellbeing. Heavy bleeding is also likely to intersect with challenges for managing menstrual bleeding, seeking health care and experiencing pain.

Seeking care for menstrual-related concerns happens in a context of broader health care accessibility and availability. Thus, in the AMEHC study we assess girls' general health care seeking behaviours and access to contextualise menstrual-related health care seeking.

Reasons to include **menstrual pain**, **heavy menstrual bleeding**, and pain **management** measures in your work:

- To describe the current level of menstrual pain, heavy bleeding and pain management that participants experience
- To explore the relationship between menstrual pain, heavy bleeding and pain management and health and social outcomes
- To explore the relationship between menstrual pain, heavy menstrual bleeding, pain management and health care seeking and support

Reasons to include measures of access to healthcare in your work:

 To describe the current level of support for menstrual pain and access to healthcare providers that participants experience

The Adolescent Menstrual Experiences and Health Cohort (AMEHC) Study will measure menstrual pain and healthcare for menstruation over time to increase our understanding of how these experiences change for girls throughout adolescence and to understand their influence on girls' life outcomes.

Overview of Pain Experienced During Menstruation (Dysmenorrhea) and Pain Management

Definition Dyemoney-lease "A	umantana that valataa ta aayayal diagaasis sf
	ymptom that relates to several diagnosis of
1	fested prior to the menstrual period and
1	72 hours after its completion." ²
	he ability of an individual to regulate or limit
the amount of menst	rual pain they experience.
Importance to Dysmenorrhea can in	nterrupt activities of normal life such as
Menstrual attending school or w	ork. ² The intensity of pain while menstruating
Health leads one in three you	ung women to miss school or work. ^{3,4}
Measuring the intens	ity of pain experienced and the ways that girls
cope with the pain ca	n provide a more comprehensive picture of
girls' experiences and	d eventually lead to interventions that help
girls manage the pair	they experience.
Measurement All questions: Self-re	eported by girls on an enumerator-
Method administered survey	
General	
Considerations	
Question P1-2,5: Teherán AA, F	Piñeros LG, Pulido F, Mejía Guatibonza
Source MC. WaLIDD score, a	new tool to diagnose dysmenorrhea and
predict medical leave	e in university students. <i>Int J Women</i> s
Health. 2018;10:35-4	5. doi: <u>10.2147/IJWH.S143510</u>
Note that we updated	d P5 to capture impacts on sleep rather
than school/work to a	avoid overlap with education outcomes.
P3: Was developed b	ased on pilot and preparatory work for
_	sponse options were relevant in the study
context.	ponde opinene were reterant in the etaal,
P4: Hennegan, J., Ca	ruso, B. A., Zulaika, G., Torondel, B.,
Haver, J., Phillips-Ho	ward, P. A., & Sommer, M. (2023).
Indicators for nationa	al and global monitoring of girls'
menstrual health and	hygiene: development of a priority
abortlist lournal of A	
Shortlist. Journal of A	dolescent Health, 73(6), 992-1001.

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

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

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

Pain Experienced During Menstruation (Dysmenorrhea) and Pain Management Survey Questions in AMEHC

Question	Question	Response Options
Number		
P1	During your most recent period, did you experience cramping or pain in the abdomen, back or legs during or just before your period?	No Yes
P1_where	Where did you experience pain? Select all that apply	 Lower abdomen [0/1] Lower back [0/1] Pelvis/groin [0/1] Legs [0/1] Other [0/1]
P1_days	For how many days during (or just before) your period, did you experience cramping or pain?	• days
P2	How severe was this pain. Would you say it was mild pain, moderate pain, or severe pain?	Mild painModerate painSevere pain
P3	During your most recent period, did you do anything to relieve your menstrual pain? Anything else? Select all that apply.	 Nothing [0/1] Medication from pharmacy [0/1] Homeopathic remedy [0/1] Spiritual remedy or holy water [0/1] Apply heat [0/1] Hot drink [0/1] Drink water (room temperature) [0/1] Stretching [0/1] Resting [0/1] Changing diet [0/1] Apply pressure (e.g., tie something around waist) [0/1] Other [0/1]

P4	Were you able to reduce your menstrual (menstruation-related) pain during your most recent menstrual period?	Not at allYes, some painYes, most pain
P5	During your most recent period, did the pain prevent you from sleeping?	NeverOnce2-3 times4 or more times

Overview of Heavy Menstrual Bleeding

Definition	Heavy menstrual bleeding is defined as excessive menstrual blood
	loss that interferes with a woman's physical, social, emotional, or
	material quality of life. It can occur alone or in combination with
	other symptoms. ¹
Importance to	Heavy menstrual bleeding is a condition that compromises
Menstrual	menstrual health and can have consequences for broader physical
Health	and mental health as well as education, employment and social
	participation.
Measurement	All questions: Self-reported by girls on an enumerator-
Method	administered survey
General	The measurement of heavy menstrual bleeding has varied across
Considerations	contexts and efforts. Self-perceived heavy bleeding has been
	determined as the most appropriate measure, at times this is also
	contrasted with measures of blood loss such as counting the
	number of menstrual products used in a period of time. Such a
	question is unlikely to yield consistent results in our population
	where girls' use of menstrual products is also heavily influenced by
	their accessibility and affordability.
Question	M7, HMB2-7: Sinharoy, S. S., Chery, L., Patrick, M., Conrad, A.,
Source	Ramaswamy, A., Stephen, A., & Caruso, B. A. (2023). Prevalence
	of heavy menstrual bleeding and associations with physical health
	and wellbeing in low-income and middle-income countries: a
	multinational cross-sectional study. The Lancet Global
	Health, 11(11), e1775-e1784.

Construct's Main Use in the AMEHC Study				
Proximal Exposure	Distal Exposure for:	Covariate for:	Outcome for:	
for:				
Menstrual health care	Mental Health		Menstrual health	
seeking	Social Participation		care seeking	
	Education			

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

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

Heavy Menstrual Bleeding Survey Questions in AMEHC

Question Number	Question	Response Options
M7	How many days did your most recent menstrual period last?	Number of days
HMB2	Do you experience 3 or more days of heavier menstrual bleeding during your menstrual period?	No Yes
НМВ3	In general, does menstruation bother you due to its abundance?	No Yes
НМВ6	In general, during your heavier menstrual bleeding days, do you avoid, as far as possible, some activities, trips, or leisure-time plans because you frequently need to change your menstrual materials?	• No • Yes
НМВ7	Do you feel excessively tired or short of breath during your menstrual period?	No Yes

Overview of Access to Healthcare

Definition	Support for Menstrual Pain: A network of people who are available				
	to provide practical and psychological help when an individual				
	experiences menstrual pain. ⁵				
	Accessing Healthcare: The ability to obtain appropriate				
	healthcare resources to preserve or improve menstrual health. ⁶				
Importance to	The social environment, including gender norms and menstrual				
Menstrual	stigma, can limit social support for menstruation from family				
Health	members, friends, and healthcare providers. With lower social				
	support and access to healthcare, more restrictive behaviours				
	around menstruation may be expected that lead to less effective				
	self-care practices and more painful experiences with				
	menstruation. ⁷				
Measurement	All questions: Self-reported by girls on an enumerator-				
Method	administered survey				
General					
Considerations					
Question	HC1-HC4: World Health Organisation 'Adolescent Friendly				
Source	Healthcare Survey tools"				
	HC5: Drafted for the AMEHC study				

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

Included in the Following AMEHC Study Activities*					
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	Survey				
Wave 1	Wave 1	Wave 2	Wave 2	Wave 2	
Survey	School Audit	Survey	Guardian	School Audit	
			Survey		
Х			Х		

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Accessing Healthcare Survey Questions in AMEHC

Question	Question	Response Options
Number		
PH4	Have you ever discussed	• No
	menstruation with a health care	• Yes
	provider?	

HC1	In the past 6 months, have you visited any health facility or care provider for your health?	NoYes
HC2	What type of health care provider(s) did you visit?	 General practitioner/ family doctor [0/1] Pharmacist [0/1] Community health worker [0/1] School nurse [0/1] Traditional healer [0/1] Gynaecologist [0/1] Nurse [0/1] Midwife [0/1] Other [0/1]

HC3	What type of health problem or service did you go for? Anything else?	 Temporary illness or injury (e.g., gastric, respiratory, fever, accident, broken bone) [0/1] STIs (including HIV) [0/1] Ongoing Illness or condition (chronic condition such as an ongoing disability or cancer) [0/1] Mental health [0/1] General health advice (e.g., nutrition, activity, preventative health care) [0/1] Immunisation [0/1] Anaemia [0/1] Menstrual health problems [0/1] Contraception [0/1] Other [0/1]
HC4	Did someone accompany you to the health facility/provider? (Who?)	 Parents/guardian [0/1] Sister or sister-in-law [0/1] Friend [0/1] Spouse [0/1] Mother-in-law [0/1] Went alone [0/1] Other [0/1]
HC5	If you had a concern about your health, how confident do you feel that you could access and talk to a health care provider?	 Very unconfident Unconfident Confident Very Confident

Overview of Healthcare for Menstrual Concerns

Definition	Menstrual health care: Support from health care providers, and		
	broader social support to engage with menstrual health care services and self-care.		
Importance to	Care for menstrual discomforts and disorders is a requirement for		
Menstrual	menstrual health. Around the world, difficulties accessing care,		
Health	inadequate care and an environment dismissive of women's and		
	girls' health concerns, particularly related to menstruation, can		
	inhibit the timely receipt of effective healthcare.		
Measurement	All questions: Self-reported by girls on an enumerator-		
Method	administered survey		
General			
Considerations			
Question	P4: Developed for the AMEHC study		
Source	MHL6: Hennegan, J., Caruso, B. A., Zulaika, G., Torondel, B.,		
	Haver, J., Phillips-Howard, P. A., & Sommer, M. (2023).		
	Indicators for national and global monitoring of girls' menstrual		
	health and hygiene: development of a priority shortlist. Journal of		
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for:				
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Social Participation			care seeking	
Education				
SRH				
Physical Health				

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	Survey				
X					
Wave 1	Wave 1	Wave 2	Wave 2	Wave 2	
Survey	School Audit	Survey	Guardian	School Audit	
			Survey		
X		Х			

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

Accessing Menstrual Healthcare Survey Questions in AMEHC

Question Number	Question	Response Options
PH4	Have you ever discussed menstruation with a health care provider?	No Yes
MHL6	If you had a concern about your menstrual period, would you feel comfortable seeking help from a health care provider such as a school nurse, community health worker, or doctor?	YesMaybeNo

References

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