Additional File 1. Informed Consent and Questionnaire Form

Prevalence, Risk Factors, and Management Practices of Primary Dysmenorrhea among Young Females

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Dear Respondent,

The following questionnaire is intended to investigate the prevalence of dysmenorrhea among Lebanese university students and assess the management practices. **Dysmenorrhea, painful periods**, is one of the most common **health disorders** among **females**. Dysmenorrhea is usually accompanied with **lower abdominal pain** and **discomfort** during **menstruation**. It negatively affects the patient's quality of life and may limit daily physical activities.

This questionnaire will take around 10 minutes to be completed. Your participation is important for us. Thank you for your time and cooperation in completing this survey.

Informed Consent

Your participation in this survey is **voluntary**, you have the right not to participate or withdraw at any time. This survey is intended for research purposes and your medical data will be kept confidential.

I voluntarily agree to participate in this research study. I have had the purpose and nature of the study explained to me in writing and I have had the opportunity to ask questions about the study. I understand that even if I agree to participate now, I can withdraw at any time or refuse to answer any question without any consequences of any kind and I understand that all the information I provide for this study will be treated confidentially.

Signature of the participant: -----

Date: -----

Questionnaire Form

Prevalence, Risk Factors, and Management Practices of Primary Dysmenorrhea among Young Females

Instructions: Please tick ($\sqrt{}$) for the answer and fill in the blanks when necessary

Sociodemographic Information							
1.	University:						
2.	Faculty:						
3.	Specify your academic year:						
	$\Box 1^{st} \Box 2^{nd} \Box 3^{rd} \Box 4^{th} \Box 5^{th} \Box 6^{th} \Box Post-graduate$						
	Age:years						
5.	Weight: kg						
6.	Height: cm						
7.	Marital status: Single/Engaged Married Divorced						
8.	Do you have children: \Box No \Box Yes						
9.	Do you have any drug allergies? No Yes, specify:						
	Lifestyle Habits						
10	Do you smoke? \Box No \Box Yes \Box Ex-smoker						
	If YES : \Box Cigarette \Box Hookah (Nargila)						
	Number of Cigarettes per day: OR # of hookah session per day:						
11	Do you drink alcohol? \Box No \Box Yes, occasionally \Box Yes, on daily bases						
12	Do you exercise regularly?						
	$\Box No, I don't exercise \qquad \Box Yes, once weekly \qquad \Box Yes, twice weekly \qquad \Box Yes, the weekly \qquad \Box Y = the weekl$						
	$\Box Yes, three time weekly \qquad \Box Yes, four times weekly \qquad \Box Yes, five times w$						
	\Box Yes, six times weekly \Box Yes, every day						
	If VES specify the type of evenings you do.						
If YES , specify the type of exercise you do:							
12	specify the time you spend on exercising per day :minutes OR hours						
15	During the last year , did you try to lose weight ? \Box No \Box Yes						
Medical and Medication History							
Medical and Medication History 14. Do you have any chronic medical disease(s)? No Yes, specify the condition: 							
14	14. Do you have any chronic medical disease(s)? \Box No \Box Yes, specify the condition						
15	Do you have any gynecological (women-related) disease(s)? \Box No \Box Yes, specify the condition:						
13. Do you have any gynecological (women-related) disease(s)? \Box no \Box res, specify the condition:							
16. Do you have any gastrointestinal ulcers/bleeding? \Box No \Box Yes, specify the							
condition:							
17. Do you take any prescribed medication(s) on daily basis? \Box No \Box Yes, specify:							
18	18. Do you take any hormonal contraceptive pills? \Box No \Box Yes, specify:						

If **YES**, What is the reason behind using those contraceptive pills?

19. Do you take any over the counter (OTC) [Non-prescription] medication(s)? \Box No \Box Yes, specify:

20. Do you take any herbal, supplements or gym products? \Box No \Box Yes, specify:

21. Does your mother or sister(s) have history of painful periods? \Box No \Box Yes

Menstrual Pattern

22. At what age did you have your **first** menstrual cycle? _____years

23. Do you have a **regular period** on **monthly basis**? \Box No \Box Yes

24. How many **days** are there between your **first day of one period** and the **first day of the next period** (average menstrual cycle length)? _____ days

25. How long does your period last (duration of menstrual bleeding)? _____days

26. How is the **blood flow** during your period (menses)?

□ Light (<1 sanitary pad soaked in 3 hours)

□ Moderate (>1 sanitary pad soaked in three hours)

□ Heavy (>1 fully soaked sanitary pad every two hours)

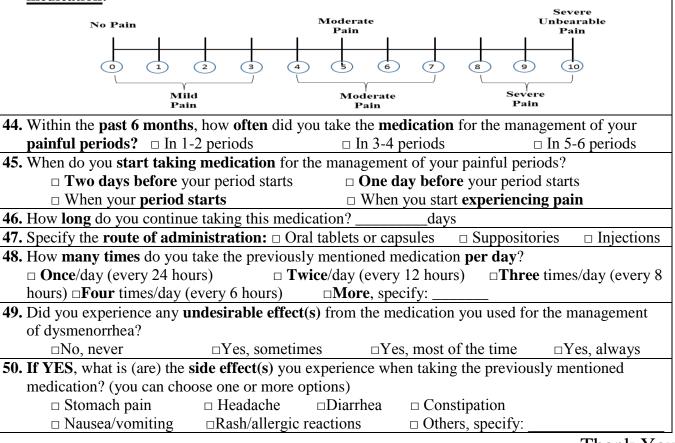
27. Do you have painful periods characterized as lower abdominal cramps during menstruation?
□No, not at all
□Yes, in few periods (once every 6 months)
□Yes, in all periods

If your answer is <u>No, not at all</u> on the previous question, you have finished the survey. Thanks for your time. If your answer is YES, please continue the survey

Dvsmen	orrhea Characteristics								
28. When did you start experiencing painful									
$\Box \text{Within 3 months of puberty} \qquad \Box \text{Within 6 months of puberty} \qquad \Box \text{ Within 9 months of puberty}$									
□ Within 1 year of puberty □ Wit	hin 2 years of puberty	□ Within 3 years of puberty							
□ >3 years of puberty, specify									
29. Please mark the number that indicates the severity of your period pain . How would you rate your									
menstrual pain on a scale from 1 to 10?									
No Pain	Moderate Pain	Severe Unbearable Pain							
Mild Pain	Moderate Pain	Severe Pain							
30. On which day of your cycle does the pain	start?								
□ 3 days before your period begins		your period begins							
□ 1 day before your period begins	□ 1 st day of you								
□ 2 nd day of your period	\Box 3 rd day of you								
31. How long does the pain last? hou	· · ·	T							
32. Specify the physical symptoms associate		d (tick one or more options):							
Pain experienced:		· · · · ·							
\Box Lower back pain \Box Inner thighs	pain	Painful breasts							
\Box Leg cramps									
Systemic symptoms:									
□ Nausea/ Vomiting □ Headache	Fatigue	Dizziness							
\Box Chills \Box Sweating	C C								
Bowel Habit: D Not affected	□ Constipation	Diarrhea							
Urination: D No change	□ Frequent urination								
Water retention: Non	□ Bloating	Weight gain							
□ Swollen Legs									
Appetite: □Not affected	□ Loss of appetite	□ Increase in appetite							
\Box If other(s), specify:									
33. Specify the emotional symptoms associa	ted with your painful peri-	ods (tick one or more							
options):									
□ No change in the emotional/mood state									
□ Feeling angry/irritable in response to r	1								
□ Feeling restless/anxious in response to no specific reason									
□ Feeling depressed/sad in response to n	o specific reason								
Feeling socially embarrassed									
.	menorrhea on Quality of	f Life							
34. How do your painful periods affect your of	• •								
□ Unaffected □ Mildly affected		č							
35. For the last 6 months , how many univers									
\Box No , never \Box Yes, 1 day \Box Yes, 2 day	\square Yes, 3-4 days \square Yes	es, 5-6 days \Box Yes, 7 or more							
days									
26 How do your pointry port do offect your	studving obility?								
36. How do your painful periods affect your s		a Severely affected							

Management Seeking Practices							
37. Who have you consulted about your painful periods?							
Healthcare providers:	Physician	Pharmacist	□ Nurse				
Others:							
	□ Mother	□ Sister	□ Friend	□ School/university			
instructor				5			
	□ Published n	nedia	□ Internet i	resources			
		becify:					
38. If you did NOT consult a	haath cara nro	vider please spe	ocify the reas	on for NOT to:			
	-	· • •	•				
□ Painful periods is a normal physiological cycle that occurs to females							
\Box Painful periods can be t			•				
\Box Requesting a consult ab	out paintui perio	ods is embarras	sing				
□ Lack of time							
□ Less availability of fen							
\Box Health care provider's of	consult is not be	neficial in pain r	elief				
□ Other(s),specify:							
		ures for Pain M	0				
39. Do you follow any lifesty	le measures to	control your pain	ful periods?	\Box No \Box Yes			
If YES , choose: (you can	tick one or mor	e of the followin	g options)				
Relaxing therapies:							
□ Massage □Yoga □	Exercise DF	Rest □Sleep	D Distra	action by social media			
0	Heating pad/Wa	1					
	puu n						
Liquid intake: □ Increase water intake □ Drink black tea □ Drink green tea							
-				Drink anise Tea			
 Drink chamomile tea Drink ginger tea Drink cinnamon Tea 							
	cimanion rea						
□ Others, specify:	<u>,1 , 1 1 , 11</u>		· 1 ·	<u> </u>			
40. Please mark the number	that indicates th	ie severity of you	ur period pair	after receiving the			
previously		Mode		Severe Unbearable			
taken	1 1	Pair	n – – – – – – – – – – – – – – – – – – –	Pain			
measure(s):		3 (4) (5)	6 7				
	Mild		oderate	Severe			
	Pain	M	Pain	Pain			
Medications Used							
41. Do you take a medication to manage your painful periods ?							
\square No \square Yes, prescribed by a physician \square Yes, recommended by a nurse							
$\Box Yes, prescribed by a pharmacist \Box Yes, without a prescription$							
★ If your answer is <u>No</u> , Specify the reason(s) for not taking a medication to manage your painful							
periods and you will be DONE with the survey, THANK YOU! (you can choose one or							
more options):							
 Prefer lifestyle interventions Den't believe that mediantions are paragraphy 							
□ Don't believe that medications are necessary							
□ Don't believe that medications can help in relieving pain							
□ Fear of medication's side effects							

- □ Fear of **dependence** to medications
- □ **Allergy** to medication
- □ Presence of **medical reason** that **prevents** you from taking medication
- □ Others, specify:_
- 42. If YES, What is the name of the medication used for painful periods:_
- **43.** Please mark the number that indicates the severity of your period pain <u>after receiving</u> your **medication:**



Thank You!