

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 (✓) for the answer and fill in the blanks when necessary

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

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

21. Does your mother or sister(s) have history of painful periods? No 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**? No 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 some periods (**once every 3 months**)
- Yes**, in few periods (**once every 6 months**)
- Yes**, in **all periods**

If your answer is No, not at all on the previous question, you have finished the survey.

Thanks for your time.

If your answer is YES, please continue the survey

Management Seeking Practices

37. Who have you consulted about your painful periods?

Healthcare providers: Physician Pharmacist Nurse

Others:

Mother Sister Friend School/university
instructor

Published media Internet resources

Other(s), specify: _____

38. If you did NOT consult a health care provider, please specify the reason for NOT to:

Painful periods is a **normal physiological** cycle that occurs to females

Painful periods can be **tolerated**

Requesting a consult about painful periods is **embarrassing**

Lack of time

Less availability of female healthcare providers

Health care provider's consult is **not beneficial** in pain relief

Other(s),specify: _____

Lifestyle Measures for Pain Management

39. Do you follow any lifestyle measures to control your painful periods? No Yes

If **YES**, choose: (you can tick one or more of the following options)

Relaxing therapies:

Massage Yoga Exercise Rest Sleep Distraction by social media

Hot bath Heating pad/Warm compress

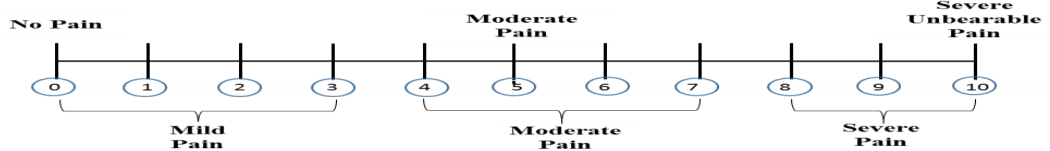
Liquid intake: Increase **water** intake Drink **black** tea Drink **green** tea

Drink **chamomile** tea Drink **ginger** tea Drink **anise** Tea

Drink **cinnamon** Tea

Others, specify: _____

40. Please mark the number that indicates the **severity** of your period pain **after receiving** the previously taken measure(s):



Medications Used

41. Do you take a medication to manage your **painful periods**?

- No Yes, prescribed by a **physician** Yes, recommended by a **nurse**
 Yes, prescribed by a **pharmacist** Yes, **without a prescription**

↓

If your answer is No, 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
- Don't believe that medications are **necessary**
- Don't believe that medications can **help** in **relieving pain**
- Fear of medication's **side effects**

