

Supplementary 2: Questionnaire (S1 Questionnaire)

Knowledge and Attitude of Premarital Screening (PMS)

The questionnaire:

1. What is your age?
 - ☐ 18-21
 - ☐ 22-25
 - ☐ 26-29
 - ☐ 30 years or above
2. What is your gender?
 - ☐ Male
 - ☐ Female
3. What is your nationality? Please specify
 - ☐ Qatari
 - ☐ Non-Qatari (please specify) -----
4. What is your religion?
 - ☐ Islam
 - ☐ Christianity
 - ☐ Hinduism
 - ☐ Buddhism
 - ☐ Others, please specify-----
5. In which college are you studying at Qatar University?
 - ☐ College of Business and Economics
 - ☐ College of Sharia (Islamic studies)
 - ☐ College of Law
 - ☐ College of Engineering
 - ☐ College of Arts and Sciences
 - ☐ College of Health Sciences
 - ☐ College of Medicine
 - ☐ College of Education
 - ☐ College of Pharmacy
6. What is your current year of study in Qatar University?
 - ☐ 1st year
 - ☐ 2nd year
 - ☐ 3rd year
 - ☐ 4th year
 - ☐ 5th or more
7. Please indicate your current marital status?
 - ☐ Engaged
 - ☐ Separated
 - ☐ Divorced
 - ☐ Widowed
 - ☐ Single (never married)
8. What is the type of relation between your parents?
 - ☐ First cousins (the couple's parents are brother and sisters)
 - ☐ Second cousins (the couple's parents are cousins)
 - ☐ More distant relation
 - ☐ Not related at all
9. Have you or any of your close family member been diagnosed with a genetic disease?
 - ☐ Yes
 - ☐ No (go to question 14)

- ☐ I do not know
- 10. Have you ever undergone premarital screening?
 - ☐ Yes
 - ☐ No
- 11. What is your household income level excluding the drivers' and maids' income?
 - ☐ Less than 10,999 QAR
 - ☐ 11,000- 19,999 QAR
 - ☐ 20,000 QAR or more
- 12. Have you heard about "Premarital screening" or "genetic testing"?
 - ☐ Yes
 - ☐ No
- 13. If yes, what is the main source of your information?
 - ☐ TV
 - ☐ Friends
 - ☐ Academic course
 - ☐ Newspapers
 - ☐ Social Media
 - ☐ Health care facility
 - ☐ Other, please specify -----
- 14. Diseases targeted by Premarital Screening include (check all that apply):
 - ☐ Genetic diseases
 - ☐ Sexually transmitted diseases
 - ☐ I do not know
- 15. Blood diseases targeted by Premarital Screening include (Check all that apply):
 - ☐ Sickle cell disease
 - ☐ Thalassemia
 - ☐ G6PD deficiency
 - ☐ Heart disease
 - ☐ Diabetes
 - ☐ I do not know

Please tell me if you agree or disagree with the following:

- 16. Consanguinity (marriage between cousins) can increase the chance of having a child with a genetic disease.
 - ☐ Strongly Agree
 - ☐ Somewhat agree
 - ☐ Disagree
 - ☐ Strongly Disagree
 - ☐ Neutral
- 17. Premarital screening can reduce the occurrence of genetic diseases.
 - ☐ Strongly Agree
 - ☐ Somewhat agree
 - ☐ Disagree
 - ☐ Strongly Disagree
 - ☐ Neutral
- 18. Premarital screening can reduce the occurrence of sexually transmitted diseases.
 - ☐ Strongly Agree
 - ☐ Somewhat agree
 - ☐ Disagree
 - ☐ Strongly Disagree
 - ☐ Neutral
- 19. Genetic tests are always 100% accurate.

- ☐ Yes
 - ☐ No
 - ☐ I do not know
- 20. A genetic test must be repeated every year because the results may change.
 - ☐ Yes
 - ☐ No
 - ☐ I do not know
- 21. In case of a family having a genetic disease, this will certainly imply that every member of the family would have the disease.
 - ☐ Yes
 - ☐ No
 - ☐ I do not know
- 22. Genetic diseases can have a psychological burden on families.
 - ☐ Strongly Agree
 - ☐ Somewhat agree
 - ☐ Disagree
 - ☐ Strongly Disagree
 - ☐ Neutral
- 23. Genetic diseases can have an economic burden on families.
 - ☐ Strongly Agree
 - ☐ Somewhat agree
 - ☐ Disagree
 - ☐ Strongly Disagree
 - ☐ Neutral
- 24. Are you aware of any Islamic fatwa (edict) approving abortion if a fetus affected by genetic abnormalities?
 - ☐ Yes
 - ☐ No
 - ☐ Not applicable
- 25. What do you think is the appropriate time for doing genetic testing?
 - ☐ In high school
 - ☐ Pre-joining a college
 - ☐ Before marriage (during engagement)
- 26. Genetic testing could lead to denial of a marriage for a couple.
 - ☐ Strongly agree
 - ☐ Somewhat agree
 - ☐ Disagree
 - ☐ Strongly disagree
 - ☐ Neutral
- 27. Genetic testing will do more harm than good for society.
 - ☐ Strongly agree
 - ☐ Somewhat agree
 - ☐ Disagree
 - ☐ Strongly disagree
 - ☐ Neutral
- 28. What would be your response if you were told (after the premarital screening) that there would be a chance of having a child affected with a genetic diseases?
 - ☐ Continue engagement and get marry
 - ☐ Cancel/discontinue engagement
 - ☐ Continue engagement and get marriage for emotional reasons
 - ☐ Continue engagement and get marriage for family pressure

29. Law and regulation should ban the marriage if there is a chance of having a child affected with a genetic disease.
- ☐ Strongly agree
 - ☐ Somewhat agree
 - ☐ Disagree
 - ☐ Strongly disagree
 - ☐ Neutral
30. I prefer consanguineous marriages (marriage between cousins or relatives).
- ☐ Strongly agree
 - ☐ Somewhat agree
 - ☐ Disagree
 - ☐ Strongly disagree
 - ☐ Neutral
31. Premarital screening does not interfere with a belief in destiny.
- ☐ Strongly agree
 - ☐ Somewhat agree
 - ☐ Disagree
 - ☐ Strongly disagree
 - ☐ Neutral
32. Which sector of society should be educated about genetic diseases? (check all that apply)
- ☐ Families with genetic diseases genes detected
 - ☐ Parents
 - ☐ Young people preparing for marriage
 - ☐ Teenagers/high school students
33. Have you ever heard about screening for Sexually Transmitted Diseases (STDs) in Qatar?
- ☐ Yes
 - ☐ No
 - ☐ I do not know
34. What is the source(s) of transmission for AIDS? (Check all that apply)
- ☐ Sexual intercourse
 - ☐ Genetically inherited
 - ☐ Blood contact
 - ☐ I do not know
 - ☐ Others, please specify -----
35. HIV can be prevented by the following method(s): (Check all that apply)
- ☐ Vaccination
 - ☐ Use of condoms
 - ☐ Use of pills/drugs
 - ☐ Abstinence
 - ☐ I do not know
36. Screening for Sexually Transmitted Diseases is necessary before marriage.
- ☐ Strongly agree
 - ☐ Somewhat agree
 - ☐ Disagree
 - ☐ Strongly disagree
 - ☐ Neutral
37. If somebody discovered that during premarital that he/she has AIDS, this person should:
- ☐ Hide it from partner
 - ☐ Break the relation
 - ☐ Inform partner
 - ☐ Consult a physician