**Appendix 1.**

**Supplementary data for internal consistency of the questionnaire**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Scale mean** **If item deleted** | **Scale variance if item deleted** | **Corrected item-total correlation** | **Cronbach's alpha if item deleted** |
| 7. Before taking this survey, had you ever heard of HPV (human papillomavirus)? | 19.01  | 53.765  | 0.645 | 0.870 |
| 8. Is HPV sexually transmitted?  | 19.07  | 53.453  | 0.688  | 0.867 |
| 9. Are HPV infections rare in Pakistan?  | 19.28  | 56.121  | 0.368  | 0.875 |
| 10. Does HPV cause cervical cancer?  | 19.03  | 53.207 | 0.737  | 0.868 |
| 11. Can HPV infect both, men and women?  | 19.02  | 53.831  | 0.648  | 0.867 |
| 12. Is the incidence of HPV is highest among women intheir 20's and 30’s. | 19.26  | 54.899  | 0.533  | 0.873 |
| 13. Can a HPV occur without symptoms?  | 19.26  | 54.798  | 0.549  | 0.868 |
| 14. Does HPV causes genital (external organs of reproduction e.g., testis) warts? | 19.06  | 53.019  | 0.758  | 0.864 |
| 15. Can HPV may cause other genital cancers (penis, anus)?  | 19.09  | 53.704  | 0.663  | 0.866 |
| 16. Health problems associated with HPV. |  |  |  |  |
| a. Cervical cancer  | 19.04  | 53.386  | 0.708  | 0.864 |
| b. Penile cancer  | 19.31  | 55.608  | 0.461  | 0.872 |
| c. Genital warts  | 19.17  | 54.121  | 0.621  | 0.871 |
| d. HIV  | 19.46  | 57.857  | 0.189  | 0.875 |
| e. Don’t Know  | 19.19  | 64.901  | -0.807  | 0.893 |
| 17. Prevention of Human papillomavirus |  |  |  |  |
| a. Practicing abstinence (avoiding sex)  | 19.24  | 55.412 | 0.468  | 0.872 |
| b. Vaccination  | 19.12  | 54.016  | 0.624  | 0.871 |
| c. By using Condoms  | 19.33  | 55.624  | 0.494  | 0.872 |
| d. Antibiotics  | 19.49  | 58.326  | 0.132  | 0.873 |
| e. Don’t Know  | 19.14  | 64.901  | -0.796  | 0.896 |
| 18. Spread/transmission of Human papillomavirus |  |  |  |  |
| a. Cough or sneezing  | 19.18  | 54.129  | 0.613  | 0.871 |
| b. Genital skin-to-skin contact  | 19.47  | 57.884  | 0.187  | 0.877 |
| c. Contact with bodily fluids (blood)  | 19.35  | 55.625  | 0.489  | 0.874 |
| d. Don’t Know  | 19.55  | 58.319  | 0.129  | 0.877 |
| 19. Is there is a vaccine that protects against HPV?  | 19.24  | 54.559  | 0.558  | 0.872 |
| 20. The HPV vaccine prevents the chances of cervical cancers. | 19.26  | 54.791  | 0.536  | 0.871 |
| 21. The HPV vaccine is only for people who are sexually active. | 19.43  | 56.938  | 0.302  | 0.876 |
| 22. Should the HPV vaccine be given before commencingsexual intercourse? | 19.14  | 53.704  | 0.667  | 0.868 |
| 23. Once vaccinated, women no longer have to be screenedfor cervical cancer. | 19.43  | 57.216  | 0.281  | 0.876 |
| 24. Friends knew about the HPV vaccine, they would approve of me getting vaccinated against HPV. | 16.21  | 49.404  | 0.541  | 0.875 |
| 25. If my parents knew about the HPV vaccine, they wouldapprove of me getting vaccinated against HPV. | 16.12  | 48.956  | 0.535  | 0.876 |
| 26. If my doctor knew about the HPV vaccine, he/she wouldapprove of me getting vaccinated against HPV.  | 15.86 | 47.633 | 0.636 | 0.871 |