Knowledge of Human Papillomavirus (HPV), Attitudes and Practices Towards Anti-HPV Vaccination Among Israeli Pediatricians, Gynecologists and Internal Medicine Doctors: Development and Validation of an Ad Hoc Questionnaire

FIRST PART

- 1. How old are you?
- 2. Which is your gender? Female / male
- 3. Which is your religious creed (if any)? Jewish / Christian / Muslim / Druze / other
- 4. Which is your marital status? Married / not married
- 5. Which is your profession? Resident / specialist/doctor
- 6. In which clinical ward do you work? Pediatrics / gynecology / internal medicine

SECOND PART

- 1. Which is the frequency of gynecological examinations? Once every 6 months / once every 1 year / once every 2 years / check-up only if needed
- 2. To whom is the Pap test recommended? There are no special recommendations / to every girl aged >18 years / to women aged 25-64 every 3 years / to women aged >45 years every 2 years
- 3. Which are the preventative strategies for the cervical cancer? Pap test only / HPV vaccine only / Pap test and HPV vaccine / cervical cancer is a disorder that cannot be prevented in any way
- 4. Which are the Israeli Ministry of Health's guidelines for the anti-HPV vaccination? To offer the anti-HPV vaccine to girls before their first sexual intercourse / to offer the anti-HPV vaccine to girls and boys before their first sexual intercourse / to offer the anti-HPV vaccine only to girls aged 9-12 years / to offer the anti-HPV vaccine to girls and boys aged 9-12 years / to offer the anti-HPV vaccine to the entire population
- 5. What is the number of existing HPV strains? Only 1 strain / 2 strains / more than 200 strains
- 6. What is the number of HPV strains related to cervical cancer and other malignancies? Only 1 major strain / 2 major strains / 4 major strains
- 7. Which are the body regions that can be infected by HPV? Ano-genital / mouth mucosa / skin

- 8. Against which disease(s) does the anti-HPV vaccination offer protection? Anal cancer / genital warts / HIV / cervical cancer / penile cancer / colorectal cancer / anogenital cancers and warts
- 9. Which is the percentage of girls aged 15-18 years being sexually active? 0% / 1-24% / 25-49% / more than 50%
- 10. Which is the percentage of boys aged 15-18 years being sexually active? 0% / 1-24% / 25-49% / more than 50%

THIRD PART (each item on a likert-scale 1 to 5)

First sub-set

- 1. I recommend the anti-HPV vaccination to teenage girls.
- 2. I recommend the anti-HPV vaccination to teenage boys.
- 3. Anti-HPV vaccination should be routinely administered to females aged 9-12 years.
- 4. Anti-HPV vaccination should be routinely administered to males aged 9-12 years.
- 5. In females, the importance of the anti-HPV vaccine is similar to that of other vaccines.
- 6. In males, the importance of the anti-HPV vaccine is similar to that of other vaccines.
- 7. The anti-HPV vaccine is optional for females aged 9-12 years.
- 8. The anti-HPV vaccine is optional for males aged 9-12 years.
- 9. HPV has severe complications that justifies vaccination.
- 10. During the anti-HPV vaccination, elements of sexual education should be provided to children.
- 11. I am not sure the anti-HPV vaccine provides long-term protection.
- 12. The children get too many vaccinations I do not have time to educate parents about the anti-HPV vaccination.
- 13. The financial cost of the anti-HPV vaccine prevents me from recommending it.
- 14. The national guidelines for the anti-HPV vaccination are unclear.
- 15. The absence of preventive medicine services in some settings prevents me from recommending the anti-HPV vaccine to parents.
- 16. National guidelines related to the anti-HPV vaccination affect my decision whether to recommend or not the anti-HPV vaccine.
- 17. I am confident I can address parents' questions and concerns about the anti-HPV vaccine when vaccinating their female children.
- 18. I am confident I can address parents' questions and concerns about the anti-HPV vaccine when vaccinating their male children.

- 19. I am confident that I can deal with the parental concern that, following the anti-HPV vaccination, their female child's sexual activity will increase.
- 20. I am confident that I can deal with the parental concern that, following the anti-HPV vaccination, their male child's sexual activity will increase.
- 21. I am confident that I can deal with parental concerns about the side effects of the anti-HPV vaccine that may occur in their female children.
- 22. I am confident that I can deal with parental concerns about the side effects of the anti-HPV vaccine that may occur in their male children.
- 23. I have enough time to identify and address the reasons for parental refusal of the anti-HPV vaccine for their female children.
- 24. I have enough time to identify and address the reasons for parental refusal of the anti-HPV vaccine for their male children.
- 25. I think I have a great influence on the parents' decision whether to vaccinate or not their female children against HPV.
- 26. I think I have a great influence on the parents' decision whether to vaccinate or not their male children against HPV.
- 27. Usually I can convince parents who hesitate to vaccinate their female children.
- 28. Usually I can convince parents who hesitate to vaccinate their male children.
- 29. When parents have concern about the anti-HPV vaccine and refuse to vaccinate their female child, I think I am not able to change their minds.
- 30. When parents have concern about the anti-HPV vaccine and refuse to vaccinate their male child, I think I am not able to change their minds.

Second-subset

- 31. I talk frequently about sexually transmitted diseases with female adolescents when they visit my clinic.
- 32. I talk frequently about sexually transmitted diseases with male adolescents when they visit my clinic.
- 33. I explain to adolescents that the anti-HPV vaccine is safe.
- 34. I provide adolescents with printed material and detailed information about the anti-HPV vaccine.
- 35. In case of concerns, I always ask which are the major sources of doubts.
- 36. In case of concerns, I tell parents that, as parent, I have vaccinated my child/children against HPV.
- 37. In case of concerns or doubts, I push parents to vaccinate their children against HPV.
- 38. In case of concerns or doubts, I generally suggest postponing the anti-HPV vaccination.

- 39. I provide parents with printed material specifically dealing with their concerns.
- 40. I provide parents with information about the anti-HPV vaccination.
- 41. Before the vaccination, I provide parents with written information adapted to their socio-cultural background.
- 42. I administer questionnaires to parents to identify their concerns.
- 43. I provide parents with friendly explanations using interactive aids (such as a computer or a smart phone app).