

Supplementary material to:
Chen JW, et al. Closing the gender gap in human papillomavirus protection:
A survey of healthcare workers. Ann Acad Med Singap 2026;Online-First.
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Awareness and Perceptions of Human Papillomavirus(HPV) Vaccination in Men

10 mins estimated time to complete

Human Papillomavirus (HPV) is a common virus that can affect both women and men. HPV infection can lead to certain cancers and other health problems. Vaccines are available to prevent HPV infection.

This survey aims to understand awareness, knowledge, attitudes, and views about HPV vaccination in men.

All responses are anonymous.

Section A

1. Age group

- ☐ Below 18
- ☐ 18–29
- ☐ 30–39
- ☐ 40–49
- ☐ 50 and above

2. Sex

- ☐ Male
- ☐ Female
- ☐ Prefer not to say

3. Highest education level

- ☐ Primary
- ☐ Secondary
- ☐ Diploma
- ☐ University
- ☐ Postgraduate

4. Do you have a son aged 9–26 years?

- ☐ Yes
- ☐ No
- ☐ Prefer not to say

Section B

5. Before today, had you heard of Human Papillomavirus (HPV)?

- ☒ Yes
- ☐ No

Section C

6. HPV infection can occur in men

- ☐ True
- ☐ False
- ☐ Unsure

7. HPV can be transmitted through sexual contact

- ☐ True
- ☐ False
- ☐ Unsure

8. HPV can cause anal cancers in men

- ☐ True
- ☐ False
- ☐ Unsure

9. HPV can cause penile cancers in men

- ☐ True
- ☐ False
- ☐ Unsure

10. HPV can cause throat cancers in men

- ☐ True
- ☐ False
- ☐ Unsure

11. The Gardasil-9 HPV vaccine is approved for men

- ☐ True
- ☐ False
- ☐ Unsure

Section D

Instruction: Please indicate how strongly you agree or disagree with the following statements.
(1 star = Strongly disagree, 5 stars = Strongly agree)

12. I believe HPV infection is a serious health issue in men



13. I believe Gardasil-9 HPV vaccination is safe for men



14. I think Gardasil-9 HPV vaccination for men should be more widely publicised.



15. I believe HPV vaccination can help protect a person's sexual partner



16. I would be more likely to accept HPV vaccination if recommended by a doctor



Section E

17. In SKH, each dose of the Gardasil-9 HPV vaccine costs \$214.12, and the full vaccination course consists of three doses. Given this information, I believe HPV vaccination in men is cost-effective

- ☐ Strongly disagree
- ☐ Disagree
- ☐ Neutral
- ☐ Agree
- ☐ Strongly agree

Section F

18. Have you received the HPV vaccine?

- ☐ Yes
- ☐ No
- ☐ Unsure

19. If you have not been vaccinated, would you consider receiving the HPV vaccine?

- ☐ Yes
- ☐ No
- ☐ Unsure

20. If you have a son, would you consider Gardasil-9 HPV vaccination for him?

- ☐ Yes
- ☐ No
- ☐ Unsure
- ☐ Not applicable

Section G

21. What are your reasons for not receiving or not considering HPV vaccination for yourself or your son?

- ☐ Not aware HPV vaccination is for men
- ☐ Cost
- ☐ Concern about side effects or safety
- ☐ I have not been recommended by a healthcare professional
- ☐ Not sexually active
- ☐ Personal or cultural beliefs
- ☐ Not sure where to get vaccinated
- ☐ Others

22. Is there anything that would make you more likely to receive HPV vaccination for yourself or your son?

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