Fig. S1. Consort diagram of patients recruited for the study.

- **Enrolment**: Assessed for eligibility (n=412)
  - Excluded (n=111)
    - Declined to participate (n=111)
  - Randomised (n=301)
    - Non-participants were invited to complete a short survey

- **Allocation**: Allocated to HPV self-sampling first before physician-sampling (n=150)
  - Received allocated intervention (n=150)
  - Allocated to HPV physician-collected sampling before self-sampling (n=151)
  - Received allocated intervention (n=151)

- **Analysis**: All participants completed a questionnaire on their experience of HPV self-sampling and physician-sampling
  - Analysed (n=150)
    - Excluded from analysis (n=0)
  - Analysed (n=150)
    - Excluded from analysis (request to withdraw from study) (n=1)

HPV: human papillomavirus
<table>
<thead>
<tr>
<th></th>
<th>Study participants (n=300)</th>
<th>Non-participants (n=111)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. (%)</td>
<td>No. (%)</td>
</tr>
<tr>
<td><strong>Age (years)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30–39</td>
<td>81 (27)</td>
<td>31 (27.9)</td>
</tr>
<tr>
<td>40–49</td>
<td>92 (30.7)</td>
<td>32 (28.8)</td>
</tr>
<tr>
<td>50–59</td>
<td>85 (28.3)</td>
<td>27 (24.3)</td>
</tr>
<tr>
<td>60–69</td>
<td>41 (14.0)</td>
<td>21 (18.9)</td>
</tr>
<tr>
<td><strong>Ethnicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chinese</td>
<td>218 (72.7)</td>
<td>86 (77.5)</td>
</tr>
<tr>
<td>Malay</td>
<td>52 (17.3)</td>
<td>13 (11.7)</td>
</tr>
<tr>
<td>Indian</td>
<td>16 (5.3)</td>
<td>8 (7.2)</td>
</tr>
<tr>
<td>Others</td>
<td>14 (4.7)</td>
<td>4 (3.6)</td>
</tr>
<tr>
<td><strong>Highest level of</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No qualifications</td>
<td>3 (1.0)</td>
<td>3 (2.7)</td>
</tr>
<tr>
<td>Primary education</td>
<td>51 (17.0)</td>
<td>21 (18.9)</td>
</tr>
<tr>
<td>Secondary education</td>
<td>103 (34.3)</td>
<td>37 (33.3)</td>
</tr>
<tr>
<td>Tertiary education</td>
<td>143 (47.7)</td>
<td>50 (45.1)</td>
</tr>
<tr>
<td>Employment</td>
<td>Count</td>
<td>Percentage</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-------</td>
<td>------------</td>
</tr>
<tr>
<td>Full-time employment</td>
<td>148</td>
<td>(49.3)</td>
</tr>
<tr>
<td>Part-time employment</td>
<td>34</td>
<td>(11.3)</td>
</tr>
<tr>
<td>Currently not working</td>
<td>59</td>
<td>(19.7)</td>
</tr>
<tr>
<td>Prefer not to say</td>
<td>59</td>
<td>(19.7)</td>
</tr>
</tbody>
</table>
Table S2. Breakdown of self-collected and physician-collected human papillomavirus results

<table>
<thead>
<tr>
<th>HPV test results</th>
<th>Physician-collected</th>
<th></th>
<th>Self-collected</th>
<th>No. (%)</th>
<th>No. (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPV not detected</td>
<td></td>
<td></td>
<td></td>
<td>237 (79.0)</td>
<td>240 (80.0)</td>
</tr>
<tr>
<td>HPV 16</td>
<td>6 (2.0)</td>
<td></td>
<td>7 (2.3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HPV 18</td>
<td>3 (1.0)</td>
<td></td>
<td>3 (1.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HPV 16 and other high-risk HPV</td>
<td>2 (0.7)</td>
<td></td>
<td>3 (1.0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HPV 18 and other high-risk HPV</td>
<td>4 (1.3)</td>
<td></td>
<td>4 (1.3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-HPV 16/18 other high-risk HPV</td>
<td>48 (16.0)</td>
<td></td>
<td>43 (14.3)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

HPV: human papillomavirus
Appendix 1. Participant questionnaire

1. Age (years)
   - ☐ 30–39
   - ☐ 40–49
   - ☐ 50–59
   - ☐ 60–69

2. Race
   - ☐ Chinese
   - ☐ Malay
   - ☐ Indian
   - ☐ Others

3. Highest level of education
   - ☐ No qualification
   - ☐ Primary education
   - ☐ Secondary education
   - ☐ Tertiary education

4. Are you working
   - ☐ Full Time
   - ☐ Part Time
   - ☐ Not Working

5. Is cervical cancer screening valuable?
   - ☐ Yes
   - ☐ No
   - ☐ Don’t know

6. Have you had any cervical cancer vaccinations?
   - ☐ Yes
   - ☐ No
   - ☐ Don’t know
7. Have you ever had a PAP test?
   □ Yes
   □ No
   □ Don’t know

8. Have you ever used tampons?
   □ Yes
   □ No
   □ Don’t know

9. Have you ever smoked?
   □ Yes
   □ No

10. When taking your own sample today, did you find it easy or difficult? Please answer on a scale of 1 to 5 (1 being easiest, 5 being hardest): ___

11. When taking your own sample today, did you feel comfortable or uncomfortable? Please answer on a scale of 1 to 5 (1 being very comfortable, 5 being very uncomfortable): ___

12. When taking your own sample today, did you feel anxious? Please answer on a scale of 1 to 5 (1 being not anxious, 5 being very anxious): ___

13. When taking your own sample today, did you feel embarrassed? Please answer on a scale of 1 to 3 (1 being not embarrassed at all, 3 being very embarrassed): ___

14. When taking your own sample today, did you find it unpleasant? Please answer on a scale of 1 to 5 (1 being not unpleasant, 5 being very unpleasant): ___

15. Assuming that self-sampling and sampling by a physician/nurse practitioner are equally good for testing, what would you prefer in a future screening programme?
   □ Self-sampling (at home)
   □ Self-sampling (at health centre)
   □ Sample taken by physician/nurse practitioner
   □ Does not matter
16. If you have the option of self-sampling, is it more likely that you would regularly participate in future cervical cancer screening
   □ Yes
   □ No
   □ Not sure

17. If you have the option of self-sampling for cervical cancer screening, would you be willing to pay for it?
   □ Yes
   □ No
   □ Not sure
Appendix 2. Non-Participant survey

1. Age (years)
   - ☐ 30-39
   - ☐ 40-49
   - ☐ 50-59
   - ☐ 60-69

2. Race
   - ☐ Chinese
   - ☐ Malay
   - ☐ Indian
   - ☐ Others

3. Highest level of education
   - ☐ No qualification
   - ☐ Primary education
   - ☐ Secondary education
   - ☐ Tertiary education
   - ☐ University degree or Higher

4. Are you working
   - ☐ Full Time
   - ☐ Part Time
   - ☐ Not Working

5. Would you mind telling us your reason for opting out of this study?
   - ☐ Time constraints
   - ☐ Not keen about self-sampling
   - ☐ Personal/Religious beliefs
   - ☐ Family concerns
   - ☐ Not interested in study
   - ☐ Others (please specify): ____________________________________________