The Impact of the Gardasil HPV Vaccine on Sandyford Sexual Health Services

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Gardasil HPV vaccine

- Current vaccine since Sep 2012
- Protects against HPV types 6, 11, 16 & 18
- Offered to girls in S1-S3 with vaccine uptake >80% (2017/18)
- Offered to MSM aged ≤ 45 from July 2017

- England: 89% reduction in genital wart diagnoses in girls aged 15-17 between 2009 & 2017
- Australia: 90% decline in genital warts in females & heterosexual men

July 2018 – JCVI recommends gender-neutral vaccination programme
Aims

Has the Gardasil vaccine reduced the number of young people aged $\leq 19$ presenting with genital warts in Glasgow?

Has there been any change to the treatment patterns of genital warts over the past 6 years?
Methods

Individuals identified by age & prescriptions for podophyllotoxin, imiquimod or liquid nitrogen

548 individuals identified in 2012
84 individuals in 2018

NaSH records of those 84 individuals from 2018 analysed

5 individuals excluded in results
Presentation of warts & wart prescriptions

86% reduction in males and females presenting with warts

84% reduction in numbers of prescriptions for warts

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Individuals</th>
<th>Number of Prescriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>548</td>
<td>855</td>
</tr>
<tr>
<td>2018</td>
<td>79</td>
<td>138</td>
</tr>
</tbody>
</table>
Wart presentations by age group

- **95% reduction in 13-15 year olds**
- **85% reduction in 16-19 year olds**

### Number of Wart Presentations by Age Group

<table>
<thead>
<tr>
<th>Age Group</th>
<th>2012</th>
<th>2018</th>
</tr>
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<tbody>
<tr>
<td>13-15</td>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>16-19</td>
<td>528</td>
<td>78</td>
</tr>
</tbody>
</table>
Genital wart presentations by sex

<table>
<thead>
<tr>
<th>Year</th>
<th>Males</th>
<th>Females</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>40%</td>
<td>60%</td>
</tr>
<tr>
<td>2018</td>
<td>48%</td>
<td>52%</td>
</tr>
<tr>
<td></td>
<td>2012</td>
<td>2018</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------------------------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>Number of young people presenting with genital warts</td>
<td>548</td>
<td>79</td>
</tr>
<tr>
<td>Overall number of young people attending Sandyford</td>
<td>9830</td>
<td>5953</td>
</tr>
<tr>
<td>Proportion of young people attending with genital warts</td>
<td>5.6%</td>
<td>1.3%</td>
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Number of young people presenting with genital warts has decreased by 77%
Aims

Has the Gardasil vaccine reduced the number of young people aged $\leq 19$ presenting with genital warts in Glasgow?

Has there been any change to the treatment patterns of genital warts over the past 6 years?
Trends in genital wart treatment

2012
- Condyline/Warticon: 36%
- Aldara/Imiquimod: 10%
- Liquid nitrogen: 54%

2018
- Condyline/Warticon: 42%
- Aldara/Imiquimod: 15%
- Liquid nitrogen: 43%
Recommendations

• Ask individuals presenting with genital warts about their HPV vaccination status

• Future study could involve contacting patients/GPs/School Health System Team to confirm vaccination

• Repeat this project in a few years to assess the impact of the gender-neutral vaccination programme
Conclusions

Gardasil has helped reduce the number of individuals aged ≤ 19 presenting with genital warts by 77%

Use of home-based treatments has increased

Keep offering and encouraging individuals to receive the HPV vaccine
Questions?
References


• Read TRH, Hocking JS, Chen MY, et al. The near disappearance of genital warts in young women 4 years after commencing a national human papillomavirus (HPV) vaccination programme. Sex Transm Infec. 2011;87:544-547.