Influenza Vaccination in School-aged Children

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**Influenza Vaccination in School-Aged Children**

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NURS 3103.1 taught by Dr. Olivia Catolico

**Introduction**

Should schools in the United States require children between the ages of six months to 17 years to have flu vaccination shots? Influenza is a serious disease that can lead to hospitalization and sometimes even death. According to the Center for Disease Control (CDC), every flu season varies, and an influenza infection can affect people differently. Millions of people get the flu every year; hundreds of thousands of people are hospitalized, and thousands or tens of thousands of people die from flu-related causes every year. Everyone is at risk for influenza, but the highest risk lies within children who are still developing their immune systems. However, with vaccines, this risk is easily preventable and can decrease a person’s chances of acquiring the infection. As such, the CDC recommends that every person six months and older should be vaccinated annually. This is even more important for children because they attend schools where they have maximum exposure to various strains of influenza six to ten hours daily. They can easily spread and contract the disease in their school environment, specifically from children that are not vaccinated. This leads to the hypothesis that children six months to 17 years should be required to receive influenza vaccinations.

**Pediatric Influenza Vaccine Price List**

<table>
<thead>
<tr>
<th>Vaccine at</th>
<th>Brand/Trade Name</th>
<th>MDC</th>
<th>Packaging</th>
<th>CDC Cost/Dose</th>
<th>Private Sector Cost/Dose</th>
<th>Contract End Date</th>
<th>Manufacturer</th>
<th>Contract #</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-23 mo</td>
<td>FluMist Quadrivalent</td>
<td>59281 – 0177-25</td>
<td>10 pack – 1 dose syringes</td>
<td>$156.75</td>
<td>$178.72</td>
<td>2/28/2018</td>
<td>Sanofi Pasteur</td>
<td>200-2017-9279</td>
</tr>
<tr>
<td>&gt;36 mo</td>
<td>FluMist Quadrivalent</td>
<td>59281 – 0417-50</td>
<td>10 pack – 1 dose syringes</td>
<td>$156.75</td>
<td>$178.72</td>
<td>2/28/2018</td>
<td>Sanofi Pasteur</td>
<td>200-2017-9279</td>
</tr>
</tbody>
</table>

**Implications for Practice**

- Assess parental understanding of implications and reasons for vaccination.
- Educate on the importance of receiving the influenza vaccine annually.
- Inform the parent and patient of the adverse effects of the vaccination.
- Explain to parent and patient other methods of influenza prevention.

**Conclusion/Further Study**

- There is not enough information gathered to support the hypothesis that children at the ages of 6 months to 17 years be required for vaccinations of influenza.
- Need the perspective of experts for these kinds of research to help better outweigh the different variables.
- While studies show that there are health benefits to support the hypothesis, it does not prove to be cost effective as age increases.
- The cost may outweigh the benefits for those of lower socioeconomic class and those with low risk for contracting the influenza.
- It is however both cost effective and health beneficial for children ages 6 to 23 months where they have weaker immune systems.
- Instead of original hypothesis, Requiring healthcare providers to inform and clear up misconceptions about the influenza vaccine to decrease the prevalence spread of the flu may be a future study to look at.

**Further Studies**

- Expert viewpoints of influenza vaccinations and thoughts in how to society can better prevent the prevalence of the flu.
- More qualitative studies on viewpoints of influenza vaccination and the reason for their beliefs in taking influenza vaccination.
- Further quantitative and qualitative studies on herd immunity.
- Further qualitative studies on social media and the effects in vaccination rates.