Influenza Vaccination Coverage Among Pregnant Women, United States, 2019–20 Influenza Season

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Data Source and Methods

- Opt-in Internet panel survey conducted April 2 – 14, 2020.
- Study population
  - Women 18-49 who were pregnant during the peak vaccination period (October 2019 – January 2020) (n=1,841).
- Measure of vaccination coverage
  - Any reported influenza vaccination received (before and during pregnancy) since July 1, 2019 to time of interview in April 2020.
- Sampled women were weighted to represent the national population of pregnant women.
- Differences were noted when a percentage-point difference of ≥5 was observed between any values being compared.
**Influenza Vaccination Coverage by Socio-demographic Characteristics, Internet Panel Survey, United States, 2019–20 Influenza Season**

**Overall vaccination coverage: 61.2%**

<table>
<thead>
<tr>
<th>Age group (yrs)</th>
<th>Race/Ethnicity</th>
<th>Education</th>
<th>Poverty status</th>
<th>Insurance coverage</th>
<th>Provider recommendation/offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-24</td>
<td>White, NH</td>
<td>≤High school diploma</td>
<td>Below poverty</td>
<td>Private/Military</td>
<td>Offered or referred</td>
</tr>
<tr>
<td>25-34</td>
<td>Black, NH</td>
<td>Some college</td>
<td>At or above poverty</td>
<td>Public</td>
<td>Recommended only</td>
</tr>
<tr>
<td>35-49</td>
<td>Hispanic</td>
<td>College degree</td>
<td></td>
<td>Uninsured</td>
<td>No recommendation</td>
</tr>
<tr>
<td>Other, NH</td>
<td></td>
<td>&gt;college degree</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- NH: Non-Hispanic
Influenza Vaccination Coverage Among Pregnant Women Who Reported a Health Care Provider Offer or Referral for Vaccination, 2019–20 Influenza Season

No. of provider visits since July 2019

Overall
1–5
6–10
>10

High-risk condition for influenza
Yes
No

Percent Vaccinated

Black, NH
White, NH
Hispanic
Other, NH

0
10
20
30
40
50
60
70
80
90
100

- Total
- White, non-Hispanic
- Black, non-Hispanic
- Hispanic
- Other, non-Hispanic

Percent Vaccinated

- 2017-18
- 2018-19
- 2019-20
Conclusions

- During the 2019–20 influenza season, 61.2% of pregnant women reported receiving influenza vaccination, an increase of 7.5 percentage points compared with the previous season.

- Although racial/ethnic disparities in vaccination persist, the magnitude in coverage differences were reduced in the 2019–20 influenza season as a result of increased vaccination coverage in Black, Hispanic, and other race women.

- A provider recommendation and offer remains a strong factor associated with vaccination coverage among pregnant women.
Influenza Vaccination Coverage Among Health Care Personnel — United States, 2019–20 Influenza Season
Data Source and Methods

- Non-probability Internet panel survey of 2,401 health care personnel (HCP) conducted March 31–April 30, 2020.

- Respondents were recruited from two preexisting national opt-in Internet sources:
  - Medscape, a medical website managed by WebMD Health Professional Network
  - General population Internet panels operated by Dynata

- Responses were weighted to represent the national population of HCP.

- Differences were noted when a percentage-point difference of $\geq 5$ was found between any values being compared.
Influenza Vaccination Coverage Among HCP – Internet Panel Survey, United States, 2010–11 through 2019–20 Influenza Seasons
Influenza Vaccination Coverage Among HCP by Occupation – Internet Panel Survey, United States, 2010–11 through 2019–20 Influenza Seasons

Percentage Vaccinated

Influenza Season

All HCP
Physician
Nurse Practitioner/Physician Assistant
Nurse
Pharmacist
Assistant/Aide
Other Clinical Personnel
Non-Clinical Personnel

Percentage Vaccinated

2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
Influenza Vaccination Coverage Among HCP by Work Setting – Internet Panel Survey, United States, 2010–11 through 2019–20 Influenza Seasons

- All health care facilities
- Hospital
- Ambulatory care/physician office
- Long-term care setting
- Other clinical setting

Percentage Vaccinated

Influenza Season

- All health care facilities
- Hospital
- Ambulatory care/physician office
- Long-term care setting
- Other clinical setting
Influenza Vaccination Coverage Among HCP by Employer Vaccination Policy – Internet Panel Survey, United States, 2019–20 Influenza Seasons

Percent Vaccinated

Employer vaccination requirement

Yes
No
Offered onsite vaccination >1 day
Offered onsite vaccination 1 day
Other vaccination promotion
No onsite vaccination or promotion

No employer vaccination requirement

Percent Vaccinated
Conclusions

- Vaccination coverage among HCP was 80.6% in the 2019–20 influenza season.
  - 17 percentage point increase since 2010–11 season
  - Similar to 2018–19 season

- Coverage continues to be higher among HCP working in hospitals and lowest among HCP working in long-term care settings.

- Higher vaccination coverage among HCP was associated with employer vaccination requirements or promotions such as onsite vaccination.
Limitations

- The sample was a non-probability sample, and results might not be generalizable to all pregnant women or HCP in the United States.

- Vaccination status was self-reported and might be subject to recall or social desirability bias.

- Non-coverage and nonresponse bias might remain after weighting adjustments.
Links to Reports

- Pregnant Women MMWR:
  http://dx.doi.org/10.15585/mmwr.mm6939a2.

- Health Care Personnel Report:
  https://www.cdc.gov/flu/fluvaxview/hcp-coverage_1920estimates.htm
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