Increasing the Uptake of Herpes Zoster Vaccinations via Community Pharmacies

Presented at the American Academy of Dermatology (AAD) 72nd Annual Meeting Denver, CO, March 21-25, 2014

Granting state-authorized pharmacist immunization privileges for herpes zoster vaccine significantly improved herpes zoster vaccination uptake rates.

BACKGROUND

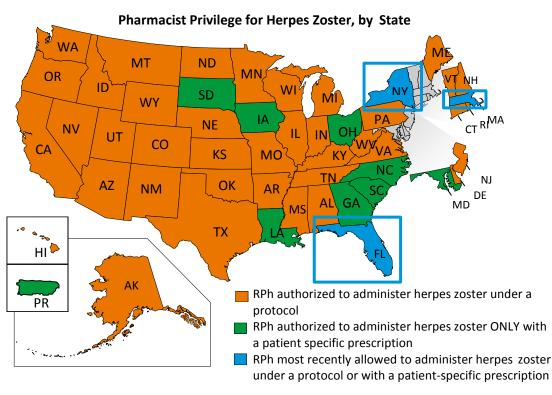
- Herpes zoster (shingles) is a disease characterized by a painful skin rash and blistering.¹
- One million cases are estimated to occur annually in the United States, half of which are among the elderly.¹
- If untreated, 50% of persons ≥ 60 years old develop postherpetic neuralgia (PHN), a debilitating syndrome that can
 persist for years.²
- The Centers for Disease Control and Prevention recommends the herpes zoster vaccine to persons aged ≥ 60 years to reduce the risk of shingles and PHN2; however, coverage levels are estimated at only 15.8%.³
- Physicians typically do not stock the vaccine due to cost, storage requirements, and limited shelf life.^{4,5}
- Pharmacists at retail pharmacies are uniquely positioned to administer these vaccinations and to share vaccination records with patients' physicians.⁶
- Traditionally, pharmacists provided vaccinations only per physician's order.⁷
- Recently, Massachusetts (May 2012), Florida (July 2012), and New York (October 2012) passed legislation allowing
 pharmacists to administer herpes zoster vaccinations per protocol or with a patient-specific prescription.⁷

OBJECTIVE

• To investigate the uptake of herpes zoster vaccinations in community pharmacies and the influence of stateauthorized pharmacist immunization privileges on vaccination uptake rates.

METHODS

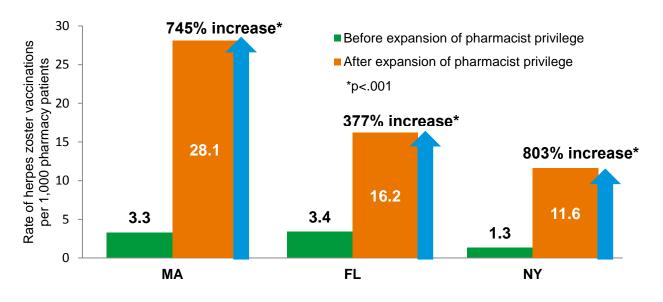
- This cross-sectional study analyzed herpes zoster vaccination records from 2012 administered at the Walgreens
 pharmacy chain.
- Vaccination uptake rates were calculated as the number of patients aged ≥ 60 years who received a herpes zoster vaccine per 1,000 pharmacy patients ≥ 60 years filling a prescription for any medication at Walgreens during the study period.
- Rates of vaccinations were examined three months before and after implementation of pharmacist immunization privilege for herpes zoster in Massachusetts (May 2012), Florida (July 2012), and New York (October 2012).



*DC authorized to administer Zostavax with a patient specific prescription

RESULTS

- In Massachusetts, the rate of herpes zoster vaccinations per 1,000 pharmacy patients increased from 3.3 to 28.1 after pharmacists were authorized to administer vaccinations under a protocol, a 745% increase (*P*<.001).
- In Florida, the vaccination rate increased from 3.4 to 16.2, a 377% increase (P <.001). In New York, vaccination rate increased 803% from 1.3 to 11.6 (P <.001). These states authorized pharmacists to administer vaccinations with a patient-specific prescription.



CONCLUSIONS

- After the legislation, study pharmacies had a significantly higher rate of herpes zoster vaccinations than prior to the legislation. Uptake rate was highest in Massachusetts, which granted pharmacists full authorization to administer the vaccinations.
- Results suggest that community pharmacists provided additional access and convenience to herpes zoster vaccinations for high-risk populations, resulting in increased uptake.
- Given the suboptimal vaccination rate of herpes zoster, states with limited or no immunization authorization for pharmacists should consider expanding pharmacist privileges.

References:

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