Improving Herpes Zoster Vaccination and Documentation For Immunosuppressed Rheumatoid Arthritis Patients

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INTRODUCTION

• Rheumatoid arthritis (RA) patients on immunosuppressed therapy are at greater risk for Herpes Zoster (HZ) infection and related complications.
• The rate of HZ vaccination is low in this population in spite of proven safety.
• The Centers for Disease Control and American College of Rheumatology guidelines recommend HZ vaccination for older immunosuppressed RA patients taking disease modifying anti-rheumatic drugs (DMARDs) or biologic agents.

OBJECTIVE

To improve HZ vaccination rate and e-record captured rate in immunosuppressed RA patients at university-based rheumatology clinics.

METHODS

Study design: Pre- and Post-intervention comparison
• Pre-intervention period: 7/1/2012– 6/30/2013
• Post-intervention period: 1/14/2014 – 7/14/2014

Inclusion criteria:
• All patients age ≥60 years with RA diagnoses prescribed DMARD/biologic/prednisone

Exclusion criteria:
• Patient with prior HZ vaccination, on prednisone ≥20mg/day or already on biologic/cytoxan in last 6 months
• Best Practice Alert (BPA) identified eligible patients from electronic records and alerted Medical assistants (MA) at the time of rooming process during the patient visit.
• MA verified eligibility and patients would
  1. receive the HZ vaccine, 2. refuse the vaccine, or 3. defer the vaccine until after discussion with the physician.
• MA forwarded BPA to the physician for further discussion or confirm the vaccine orders.
• All outcomes were documented in the e-record by MA and the physicians.

Data Analysis:
Student’s t-test and Chi-square test examined the demographic characteristics and the pre- and post-intervention vaccination and captured rates.

RESULTS

Herpes Zoster Vaccination and Vaccination+Documentation Rates

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| Overall vaccination rate increased from 6.5% to 24.6% (p<0.0001).
| Overall vaccinated+documented rate increased from 28% to 61.3% (p<0.0001). |

CONCLUSIONS

• Implementation of an e-record based BPA and ancillary-staff based intervention significantly improved both vaccination and documentation rates.
• Key components in improving compliance included e-record identification, ancillary staff review, written educational and questionnaire materials, and physician communication.
• Ancillary staff, nursing, and physician workload did not noticeably increase.
• Interventions are generalizable and sustainable.

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